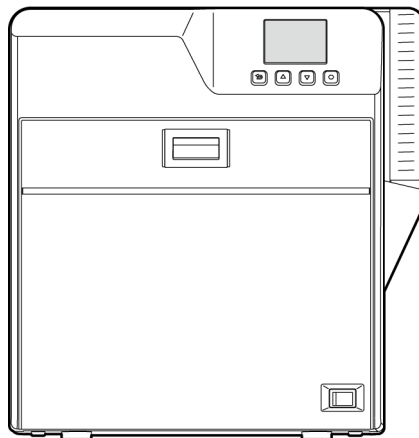


Card Printer

K65 Series

Electronic Manual



Thank you for purchasing this product.
Please read through this “Electronic Manual” carefully in advance to ensure proper use of the product. Also, to make sure that the product is used safely, please read through the “Safety Precautions” in the “READ ME FIRST” booklet. Please store the manuals properly after reading so that they can be referred to whenever necessary.

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About this Manual

Contents of this Manual

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- Designs, specifications, or other details described in this manual may be modified for improvement without prior notice.
- Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Microsoft® Windows® 11 operating system, Microsoft® Windows® 10 operating system are represented as Windows 11, Windows 10 respectively in this manual.
- Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation.
- This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>) This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

■ How to Read this Manual

Memo : Information in this section is for reference purposes, such as information on functions and usage restrictions.

Cautions : Precautions are described in this section.

 : This symbol shows the reference page or section.

Precautions

Safety Precautions

- Please read through all the following items before using the printer.

Graphical Symbols

- A number of graphical symbols are used in this manual as well as on the printer. They are intended to ensure the safe use of this product, protect users against safety hazards, as well as prevent damage of property. Make sure that you read through this manual after gaining a proper understanding of the symbol's meaning.



- If you ignore the warning with this mark, and handle the unit in a wrong way, death or serious injuries may occur.



- If you ignore the caution with this mark, and handle the unit in a wrong way, injuries or damages to properties may occur.

Warnings



■ **If the abnormal phenomena as listed below are seen, immediately stop operating the unit. Continuing operation may cause a fire or electric shock.**

- Smoke or odd smell comes out from the machine.
- Water or metal went into the machine.
- The unit fell to the floor, or the cabinet was broken.
- The power cable is damaged (exposed lead, broken cable, etc.)

If you see these phenomena, turn off the power, pull out the power plug, and contact your dealer as soon as possible. Do not try to repair it by yourself. It is dangerous.

■ **Do not remove the screws, or disassemble or alter the machine.**

- High-voltage components are contained in the unit. Touching these areas may result in an electric shock.
- Ask your dealer if you want your printer inspected or repaired.
- Do not remove the external covers of the machine. You may get an electric shock.

■ **Do not work on the power cable, or give excessive force on it. Do not put heavy objects such as furniture on the cable.**

- The cable may be damaged, causing a fire or electric shock.
- When you find a defect on the power cable, such as exposed lead, stop using the unit, and consult your dealer.

■ **Do not use the machine with the power plug inserted incompletely.**

- The machine generates heat due to incomplete contact, causing a fire or electric shock.
- Do not put many cords on a single plug socket. The power cords also heats up.

■ **Do not use the machine with dusts piled on the power plug. Do not put a metallic material adjacent to the power plug.**

- Dusts and metal are conductive, causing a fire or electric shock.
- Pull out the power plug from the outlet every six months, and clean the dusts piled on the legs and body of the plug.

■ **Do not use a line voltage other than instructed.**

- Using a line voltage or power supply which is not specified may cause a fire or electric shock.

■ **Do not insert foreign objects into the machine's openings (vents, card slots, cassette inlet, external connection terminal, etc.)**

- Metals, flammable things, and other foreign objects may cause a fire or electric shock if entering into the machine.
- If these things went into the machine, immediately turn off the power, pull out the power plug, and ask your dealer to repair. Do not try to repair it by yourself. It is dangerous.

■ **Do not place containers of liquids or small metal objects on top of the machine (including the accessory space).**

- The liquid or metal entering into the machine acts as a conductor, causing a fire or electric shock.
- If liquid or metal went into the machine, immediately turn off the power, pull out the power plug, and ask your dealer to repair. Do not try to repair it by yourself. It is dangerous.

■ **Do not place the machine on a rickety table or slanting places.**

- The machine may fall out of the table or fall over, which may damage the machine or injure you.
- If the machine is damaged by falling or turnover, immediately turn off the power, pull out the power plug, and ask your dealer to repair. Do not try to repair it by yourself. It is dangerous.

■ **Do not wet the machine with water.**

- Using the machine at a place where water splashes on the machine, or wetting the machine with water (applying, throwing, or spilling water over the machine) may cause a fire or electric shock.
- If water entered into the machine, immediately turn off the power, pull out the power plug, and ask your dealer to repair. Do not try to repair it by yourself. It is dangerous.

■ **Do not touch the machine with wet hands.**

- Touching the machine with wet hands may cause an electric shock.

■ **Do not use the printer when cards are jammed inside.**

- Cards may not be discharged correctly such as when the retransfer setting for the card is inappropriate. Stop using and remove the jammed cards immediately. Otherwise, you may have problems removing the cards, and fire or electric shock may also occur as a result.

■ **Do not touch the power plug during electrical storms.**

- Lightning may cause an electric shock.

■ **Ground the machine with the attached electric cord when connecting it to the utility outlet.**

- Using a cord other than the one supplied for grounding may cause an electric shock when the machine fails.

■ **Do not put your head or yourself into the packaging bag.**

- Do not play with the packaging bag. You may suffocate yourself.
- Give close attention to small children who may want to play with the packaging bag.

■ **Do not use the machine while it has a fault.**

- Do not use the machine while it has a fault, as this may cause a fire or electric shock.
- Immediately turn off the power, pull out the power plug, and ask your dealer to repair. Do not try to repair it by yourself. It is dangerous.

■ **Keep the mounting part of a cardiac pacemaker away from the machine.**

- Radio waves used by the RFID function inside the printer system may affect the operation of a cardiac pacemaker.

Caution



■ **Pull out the power plug before cleaning the machine.**

- This is for preventing electric shocks.

■ **Pull out the power plug when you won't use the machine for a prolonged period of time to assure safety.**

- Remove the power plug from the outlet for safety when you won't use the machine for a long time.

■ **Do not move the machine with the power cable and other electric cables connected.**

- The cables may be damaged while being moved, which may cause a fire or electric shock.
- You may stumble over the cable and get injured.

■ **Do not move the machine with objects placed on it.**

- They may fall on you and hurt you.

■ **Do not put heavy objects on the machine.**

- They may fall on you and hurt you.

■ **Do not block the vents.**

- Heat generated inside the machine cannot escape, which may cause a fire.

■ **Do not rest your body on the machine, or leave it suspended above the ground.**

- The machine may drop, causing damage or injury. Pay particular attention when there are young children around.

■ **Be sure to work with two persons when you unpack, move or lift the machine.**

- If you work alone, you may be injured by the fallen machine or hurt your back by lifting a heavy machine by yourself.

■ **Inspection**

- Ask your dealer or a qualified person to inspect the machine, typically once every two to three years. Operating the machine with dusts piling on the components for a prolonged period of time may cause a fire or a malfunction of the machine. It will be particularly effective to inspect the machine before wet rainy season. Consult your dealer on the costs of inspection.

■ **Do not place the machine in the following locations.**

Doing so may cause fire or electric shock.

- Places that are highly humid or dusty.
- Places that are exposed to oily smoke or steam, such as near a cooking table or humidifier.
- Places near a heating equipment.
- Places that are subject to water droplet condensation, such as beside a window.

Also, placing it at a place that is exposed to direct sunlight may result in deterioration of the cabinet.

■ **Hold the body of the power plug when pulling it out.**

- Do not pull out the plug by holding the cable. The cable may be broken or damaged which may in turn cause a fire or electric shock.

■ **Do not touch the power plug with a wet hand.**

- You may get an electric shock.

■ **Do not lay the power cable near the heating equipment.**

- The covering of the cable will melt due to heat from such equipment, which may cause a fire or electric shock.

■ **The heat rollers and adjacent areas become hot during operation.**

- Be careful not to touch the heat rollers and adjacent areas when replacing the ink ribbon or retransfer film, or remove jammed cards.
- Wait until the heat rollers get cooled down to prevent burns.

■ **Be careful not to pinch your hands or fingers in the accessory space cover, card bracket of the card hopper, printer door, or other parts.**

- Take care not to pinch your hands or fingers when using the accessory space, replenishing the cards to the card hopper, installing the ink ribbon and retransfer film, or removing cards from the card hopper. Failure to do so may result in injury.

■ **Be sure to use the power cord supplied with this printer.**

- Using a power cord that is of a different voltage or a damaged power cord will result in fire or electric shock.

■ **The power cord should be used only with this printer.**

- Do not use the power cord with products other than this printer. Doing so may result in fire or electric shock.

■ **When installing or moving the printer, hold the bottom (handle) of the printer with one hand on each side.**

- Carrying the printer by its corners or front and back may result in pinching your hands or fingers in between the printer and the floor or table.

Precautions During Use

- Please read through all the following items before using the printer.

Printer Installation

- When the printer is not in use, it is recommended that you turn off the power, and use a cover that is large enough to cover up the entire printer unit.
- Do not place the printer unit in the following locations. Doing so may have adverse effects on the printer.
 - Carpeted room.
 - Places with a busy flow of people.
 - Places where paper (corrugated boards, etc.) is handled or stored.
 - Places near photocopiers.
 - Places exposed to direct sunlight or near a heating equipment (such as a stove).
 - Inclined or unstable surfaces.
 - Places exposed directly to cold air, such as near an air-conditioner outlet, or places subject to high temperatures.
- When installing the printer, ensure there is sufficient space around the printer. (Install the printer by allowing a clearance of at least 20 cm between its sides and surrounding walls. Allow a clearance of at least 10 cm between the rear of the printer and the wall.)
- When installing or moving the printer, hold the bottom (handle) of the printer with one hand on each side to avoid pinching your hands or fingers.

Canceling the transport mode

- While in the transport mode during installation, the retransfer film cannot be loaded. If the printer is turned on without loading the retransfer film, a [Film Search] message appears and the transport mode is canceled.

During transport or moving of the printer

- Make sure to set to the transport mode.
["Transport Mode Setting" \(☞ page 57\)](#)

Precautions on Retransfer Film/Ink Ribbon/Card

Handling instructions

- Pay careful attention of the following when handling a printing media (retransfer film or ink ribbon) or card.
 - Using a deformed or scratched card may cause card feed errors.
 - Touching the printing surface of the printing media or card directly with your hand may cause the print to turn out uneven.
 - Foreign particles attached to the printed areas may result in printing voids. Install the printing media or card in a clean environment.
 - Use of electrically-charged printing media or cards may cause printing errors. Do not allow static to occur, such as due to cards rubbing against each other.
 - When replacing or replenishing a printing media or card that is stored under a low temperature, use after leaving the media or card in the operating ambient temperature of the printer for at least one hour.
Otherwise, condensation may occur, causing printing errors or malfunction of the printer.

Storage instructions

- The storage conditions of the printing media (retransfer film or ink ribbon) and card have a significant effect on the printing quality. Store the printing media or card in one of the following locations.

Storage environment

- Temperature: 5 °C to 25 °C
- Relative humidity: 40 % to 60 %

Storage location

- Do not store the printing media or card in the following locations. Doing so may cause the media or card to deteriorate.
 - Places exposed to direct sunlight.
 - Places with a high temperature and humidity.
 - Places near organic solvents or diazo copies.

Storage period

- Use the printing media (retransfer film or ink ribbon) within half a year after purchase.
- For details on the cards, please consult our authorized dealers.

Precautions on Retransfer Film/Ink Ribbon

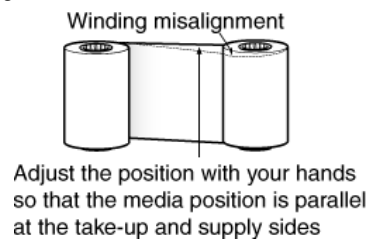
- Put on the supplied gloves when handling the retransfer film/ink ribbon. Direct contact of your hand with the printing surface may result in printing errors.

When retransfer film/ink ribbon is dismantled

- Winding misalignment may occur. If an improperly wound retransfer film/ink ribbon is loaded, printing failure or error may occur.

When loading the retransfer film/ink ribbon

- Use your hands to adjust the media at the supply and take-up sides so that they are parallel to each other. When doing so, make sure you do not touch the printing surface.
- Refer to the label adhered to the cassette for alignment of the image position. Printing errors may occur if the position is not properly aligned.



Precautions on Cards

- Put on the supplied gloves when handling the cards. Direct contact of your hand with the printing surface of the card may result in printing errors.

Handling and storage of cards after printing

- Avoid storing cards at places that are exposed to direct sunlight or subject to high temperature and humidity.
- Discoloration or fading may occur if a card comes into contact with the following chemicals or stationery.
 - Organic solvents, including alcohol, film cleaner, and diazo copies.
 - Files, document cases, pass holders, or erasers made of flexible polyvinyl chloride.
 - Hair wax or cosmetic products.

Card types

- Thin cards and certain card materials may not be suitable for printing using this printer. For details on the card material to use and other specifications, please consult our authorized dealers in advance.

When a card is jammed inside the printer

- Cards may not be discharged correctly such as when the retransfer setting for the card is inappropriate. Stop using and remove the jammed cards immediately. Otherwise, you may have problems removing the cards, and fire or electric shock may also occur as a result.
- When a card is jammed, remove it according to the procedure described in the Electronic Manual.
- If the card cannot be removed, do not try to do so forcibly. Consult our authorized dealers or the service engineer.

Cautions:

- If the card thickness of card hopper is not properly adjusted, printing error or printer malfunction may occur. Please adjust thickness in accordance with the card which will be used.

["Adjusting card thickness" \(☞ page 17\)](#)

Disclaimer

- **We do not provide compensation for any malfunction during card printing caused by breakdown of the machine, ink ribbon defects or card characteristics. In addition, we also do not provide compensation for insufficient print quality as a general rule. Please evaluate carefully beforehand.**

■ Card Material

- Some card material may not be suitable for printing. Using a contact type IC card other than those specified by the dealer, may cause damage to the thermal head.
- No compensation is made for the life reduction and failures that were caused by unsuitable card material.
- Warp of card or uneven thickness of IC cards, even though they are within the tolerance of JIS or ISO standards, may not be suitable for printing or feeding.
- For details on the specifications about card material or others, consult the dealer in advance.

■ Version upgrade

- The following defects may occur as a result of the version upgrade for the firmware of the printer or for the printer driver.
 - Card printing is disabled for the application software that has been used.
 - The operation of the printer or application software becomes unstable.
 - Defects in print result occurs.
 - Print color or shade differs.
 - The performance of reproducing fine letters, changes.
 - Others.
- Be sure to retain a copy of the current version when performing version upgrade. Reinstall the previous version immediately if these problems occur.
- We are not liable for any damage such as defective cards or interruptions during printing as a result of the version upgrade.

■ About the accessory space

- For details on using the accessory space, storage and installation of accessories in the accessory space, and connection of cables to accessories, be sure to contact your dealer.
- Our Company shall not be liable for any consequences or effects resulting from the use of the accessory space, the storage or installation of accessories in the accessory space, or connection of cables to accessories.
- When using the accessory space, storing or installing accessories in the accessory space, or connecting cables to accessories, please refer to the accessory's instruction manual for handling and follow its instructions.
- Our Company shall not be responsible for any consequences or effects resulting from modifications made to the exterior of the printer.
- Before transporting the printer, please remove all items from the accessory space. If a device is connected to the printer through the accessory space, be sure to contact your dealer for instructions on how to remove the device.

Specifications

Main Specifications

Item	Description
Recording system	Dye sublimation retransfer
Paper feed mode	Automatic
Recording density	600 dpi
Reproduction gradation	256 levels each for Y, M and C 2 levels for Resin K
Interface	USB 2.0 (Hi-speed / Full Speed) Ethernet (100BASE-TX / 10BASE-T)
Operating environment conditions	<ul style="list-style-type: none"> AD Series Ink Ribbon / Retransfer Film Temperature: 15 °C to 30 °C (When printing on both sides with retransfer film overlays : 17 °C to 28 °C) Humidity: 35 % to 70 % No condensation (When printing on both sides with retransfer film overlays : 35 % to 60 %)
Storage environment conditions	<ul style="list-style-type: none"> Printer unit Temperature: -15 °C to 55 °C Humidity: 20 % to 80 % <ul style="list-style-type: none"> Printing media (retransfer film or ink ribbon) / card Temperature: 5 °C to 25 °C Humidity: 40 % to 60 %
Power supply	AC 100V - 120V, 50Hz / 60Hz AC 220V - 240V, 50Hz / 60Hz
Current consumption	3.5 A (100V system) 1.6 A (200V system)
Power consumption	310 W (maximum power when all options are installed)
Mass	approx. 14 kg (double-sided printer, including bend remedy unit)
Dimensions	346mm x 360mm x 326mm (W x H x D)

Accessories/Products Sold Separately/Options

Accessories

Please check to ensure that the printer accessories are in place when unpacking the product package.

- Instruction Manual
- "READ ME FIRST"
- Power Cord (2m)
- Cleaning Card
- Card Stacker
- USB 2.0 Cable (2m)
- Gloves
- Tweezers
- Screws (for securing the accessory space) x2
- Cable ties x2

Products Sold Separately

To purchase these items, please consult our authorized dealers.
Use the retransfer film or ink ribbon within half a year after purchase.

- Ink Ribbon / Retransfer Film (AD Series)
- Cleaning Kit
Magnetic Head Cleaning Card (5 Pcs), Cotton Swab (5 Large and 5 Small), Cleaning Wipes (1 Box)
- Cleaning Card
10 Pcs/Set

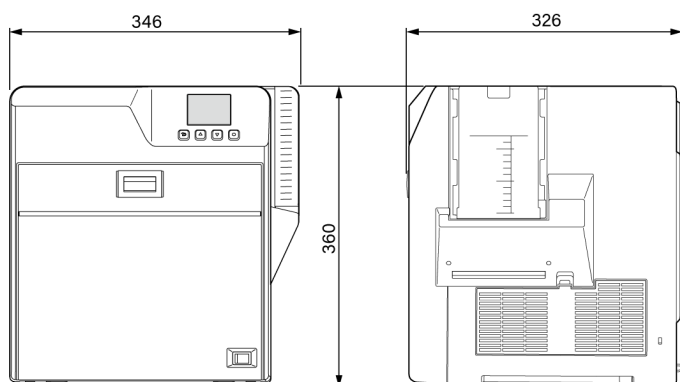
Built-in Options

- Bend remedy unit
Device for correcting card bend after printing.
- Magnetic encoder
Device for writing data to a magnetic stripe card.
It can only be installed on a double-sided printer.
- Contact IC encoder
Device for writing data to a contact IC card.
- Non-contact IC encoder
Device for writing data to a non-contact IC card.

External Options

- Card Laminator (single-sided)
This unit attaches a protective layer to one side of the card.
- Card Laminator (double-sided)
This unit attaches a protective layer to both sides of the card.

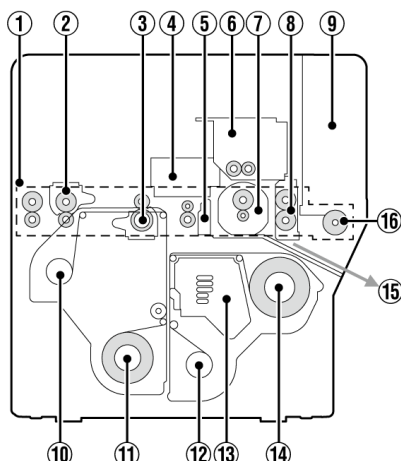
Outline Dimensional Drawing (mm)



* The specifications and appearance of this product may be modified for improvement without prior notice.

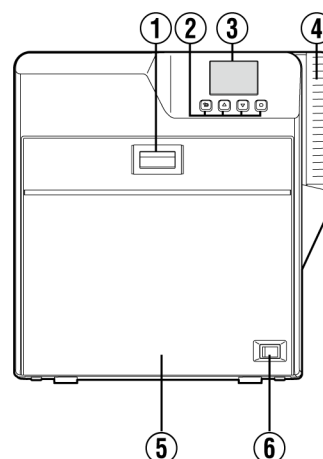
Name and Functions of Parts

Internal Mechanism Diagram



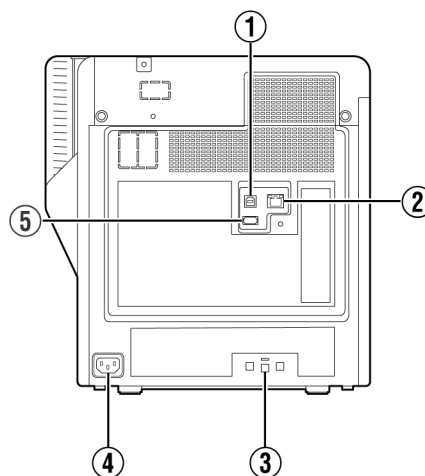
- ① Card feeder unit
 - This is the roller for feeding cards.
- ② Bend remedy unit (optional)
 - Corrects bending of the card after retransfer.
- ③ Retransfer heating roller
 - Transfers images printed on the retransfer film to the card.
- ④ Non-contact IC encoder (optional)
 - Writes data to a non-contact IC card.
- ⑤ Contact section of contact IC encoder (optional)
 - Writes data to a contact IC card.
- ⑥ Magnetic encoder (optional)
 - Writes data to a magnetic stripe card.
- ⑦ Card turn over unit (double-sided printer only)
 - Inverts the card.
- ⑧ Cleaning roller
 - Removes dust or dirt attached to the card.
- ⑨ Card hopper
 - For loading cards.
- ⑩ Retransfer film (take-up side)
 - For attaching the take-up side of the retransfer film.
- ⑪ Retransfer film (supply side)
 - For attaching the unused side of the retransfer film.
- ⑫ Ink ribbon (take-up side)
 - For attaching the take-up side of the ink ribbon.
- ⑬ Thermal head
 - Prints images on the retransfer film.
- ⑭ Ink ribbon (supply side)
 - For attaching the unused side of the ink ribbon.
- ⑮ NG card outlet
 - Discharges NG cards, such as during card jams.
- ⑯ Card load roller
 - Roller for loading cards.

Front



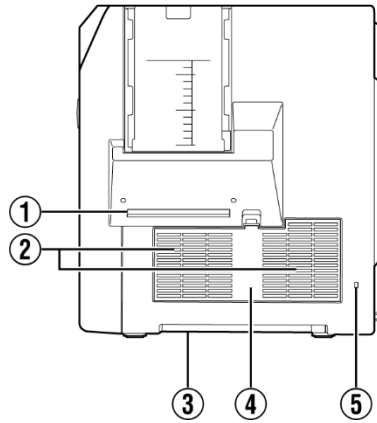
- ① Sliding knob
 - Opens/closes the printer door.
 - Slide it upward, and pull toward you to open the printer door.
- ② Operation buttons
 - For selecting and confirming information on the operation panel.
- ③ Operation panel
 - Displays the settings, operating status, and error messages.
- ④ Card hopper
 - For loading cards.
- ⑤ Printer door
- ⑥ Power switch
 - Turns the power On/Off.
 - **I** represents "On" and **O** represents "Off".

Rear



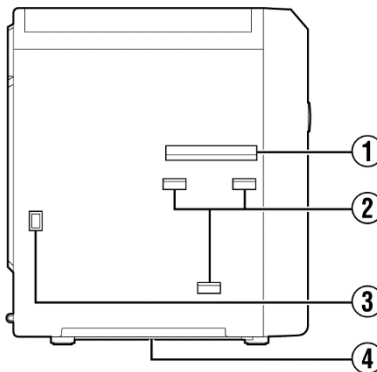
- ① USB cable connection terminal
 - For connecting a USB 2.0 interface cable.
- ② LAN cable connection terminal
 - For connecting a LAN cable.
- ③ Cable clamp
 - For securing the supplied USB cable.
- ④ AC inlet
 - For connecting the power cord.
- ⑤ External option connection terminal
 - For connecting optional external devices.

Right



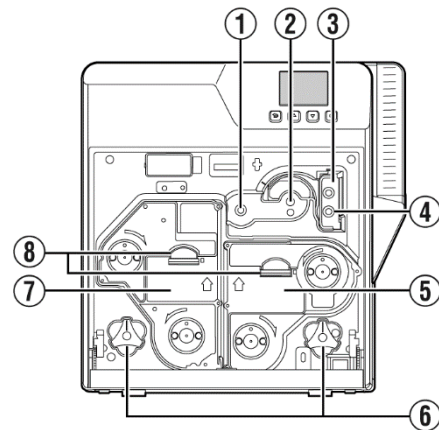
- ① NG card outlet
 - If a card is left inside the printer when the power is turned on or reset, the card will be automatically discharged.
 - Cards in the printer are discharged when an error occurs in the magnetic stripe card or IC card.
- ② Air suction fan opening
 - Air inlet of the internal cooling fan.
- ③ Handle
 - Hold this area when moving the printer.
- ④ Filter cover
 - Cover of the fan filter.
- ⑤ Security slot
 - An anti-theft device that supports Kensington locks can be installed.

Left



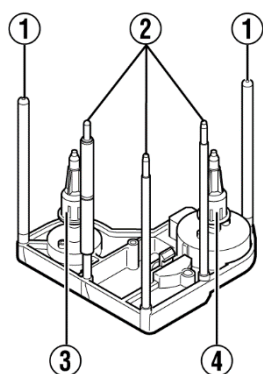
- ① Card outlet
 - Outlet for discharging the cards.
- ② Card stacker (supplied) attachment slot
 - For installing the supplied card stacker.
- ③ Infrared window
 - Sends or receives data via infrared communication by connecting with an external unit.
- ④ Handle
 - Hold this area when moving the printer.

When Printer Door is Open



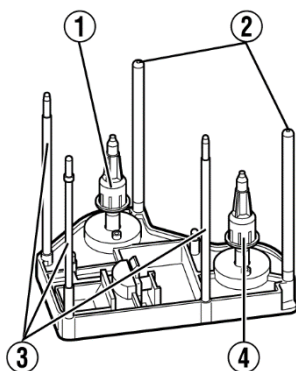
- ① Card feed roller shaft
 - When a card jam occurs, attach a jog dial to turn the card feed roller.
- ② Card turn over unit shaft
 - When a card jam occurs, attach a jog dial to turn the card turn over unit.
- ③ Cleaning unit
 - Removes dust or dirt attached to the card.
- ④ Cleaning roller shaft
 - When a card jam occurs, attach a jog dial to turn the cleaning roller.
- ⑤ Ink ribbon cassette
 - For installing the ink ribbon.
- ⑥ Jog dials
 - For removing jammed cards by turning it after it is detached from the printer unit and attached to the shaft.
- ⑦ Retransfer film cassette
 - For installing the retransfer film.
- ⑧ Cassette buttons
 - Press these buttons in order to pull out the ink ribbon cassette or retransfer film cassette.

Ink Ribbon Cassette



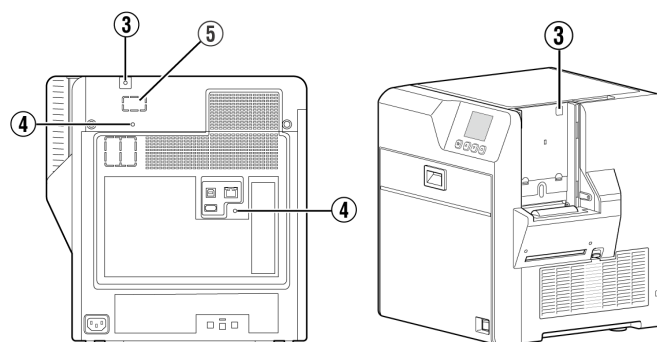
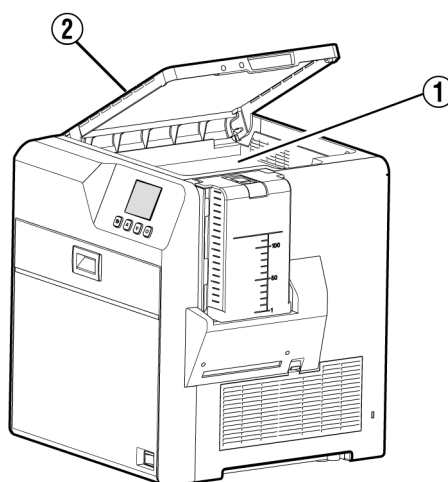
- ① Guide shaft
 - Provides guide to the position for installing the cassette.
- ② Shafts
 - For installing the ink ribbon.
- ③ Bobbin holder (black)
 - For securing the take-up side of the ink ribbon.
- ④ Bobbin holder (orange)
 - For securing the unused side of the ink ribbon.

Retransfer Film Cassette



- ① Bobbin holder (black)
 - For securing the take-up side of the retransfer film.
- ② Guide shaft
 - Provides guide to the position for installing the cassette.
- ③ Shafts
 - For installing the retransfer film.
- ④ Bobbin holder (yellow-green)
 - For securing the unused side of the retransfer film.

Accessory Space



- ① Accessory space
 - A space provided on the top of the printer that can be used for storing items such as accessories.
- ② Accessory space cover
- ③ Screw holes for securing the accessory space (2 places)
 - Secure the accessory space cover using the supplied screws. When securing the cover, please fasten it with both screws.
- ④ Cable tie attachment holes (2 places)
 - Attach the supplied cable ties to these holes when bundling wiring cables.

Cautions:

- Do not attach anything other than the supplied cable ties to these attachment holes.

⑤ Wiring hole space

- When a device is housed in the accessory space, this hole provides access for its wiring cables.

Cautions:

- For details on how to store and install accessories and how to use the wiring hole space, be sure to contact your dealer.

Installation

Printer Installation

Cautions:

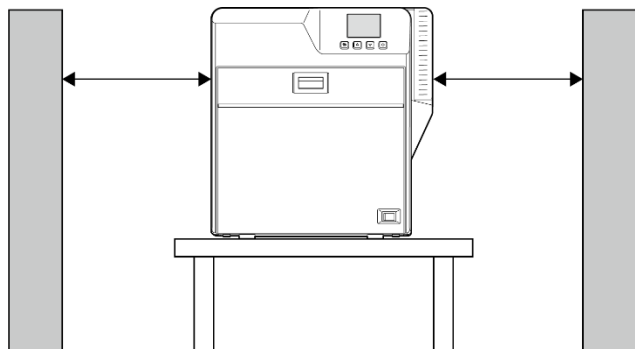
- Using the printer in an environment beyond the operating ambient temperature range may result in retransfer or printing errors. Check the "Precautions on installation location" and "Operating environment conditions" specifications.

["Precautions on installation location"](#) (page 6)

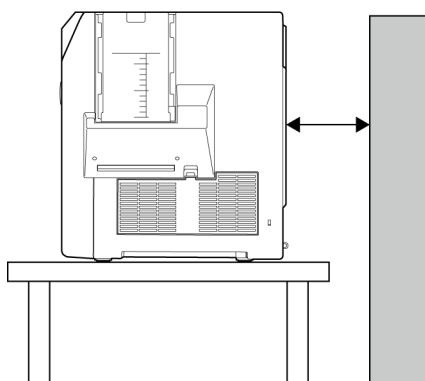
["Operating environment conditions"](#) (page 8)

Ventilation holes for the cooling fan are located at the rear and side of the printer.

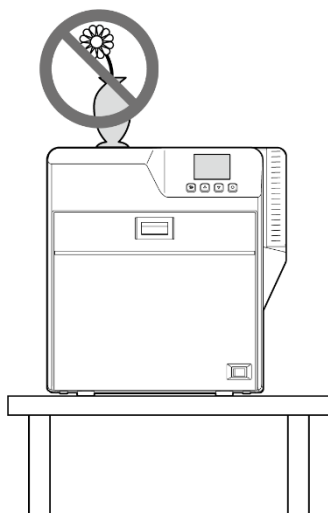
- Install the printer by allowing a clearance of at least 20 cm between its sides and surrounding walls.



- Allow a clearance of at least 10 cm between the rear of the printer and the wall.

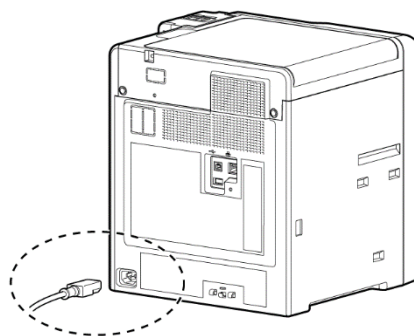


- Do not place any object on the printer.



Power Cord Connection

- 1 Insert the power cord (supplied) to the AC inlet at the rear of the printer



- 2 Plug the power cord (supplied) into an outlet

Memo:

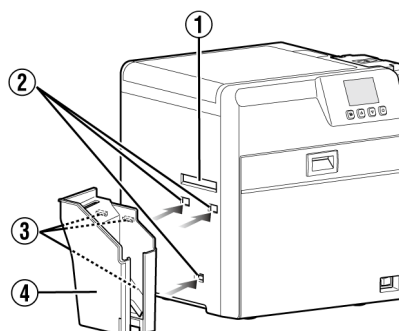
- Make use of an AVR (automatic voltage regulator) to prevent any fluctuation in voltage. Alternatively, an uninterruptible power supply is recommended in case momentary power failure occurs.

Cautions:

- Make sure that the power outlet is grounded and used as a dedicated power source for the printer.
- Plug the power cord of the printer directly to the outlet. Do not share the same outlet with other devices.

Card Stacker (Supplied)

- 1 Hook the tab on the card stacker to the card stacker attachment slot



- ① Card outlet
- ② Card stacker attachment slot
- ③ Tab
- ④ Card stacker

Memo:

- The card stacker is able to store up to about 100 cards with a thickness of 0.76 mm.

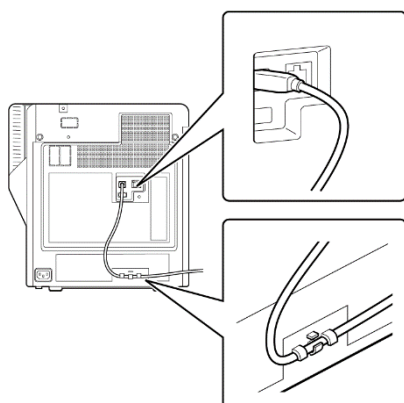
Printer and Computer Connection

Connecting with a USB Cable

Cautions:

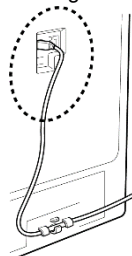
- While printing is in progress, do not turn off the power of the computer, or switch it to the sleep or standby mode. Doing so may stop the movement of the cards inside the printer.
- Plug the USB cable in correctly and firmly.
- Do not connect the cable to the USB connectors on the monitor or keyboard of the computer. The printer may not be correctly recognized.
- When using a USB hub, make use of one that is directly connected to the computer.

- 1 Make sure that the printer is powered off
- 2 Plug the USB cable into the USB cable connection terminal at the rear of the printer, and ["Cable clamp"](#) ([page 9](#)) pass the USB cable through the cable clamp



Cautions:

- As illustrated in the diagram, do not pull the USB cable excessively toward the cable clamp. Doing so may subject the USB connector of the printer to stress, thus resulting in connection problems.



- If the USB cable is thick, do not force it through the cable clamps.

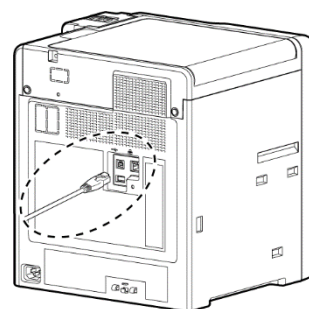
- 3 Plug the other end of the USB cable into the USB cable connection terminal of the computer

Connecting with a LAN Cable

Cautions:

- Plug the LAN cable in correctly and firmly.
- Make use of a shielded LAN cable to avoid any malfunction.
- If a USB cable is also connected at the same time when the power is turned on, priority will be given to USB.

- 1 Make sure that the printer is powered off
- 2 Plug the LAN cable into the LAN cable connection terminal at the rear of the printer



Cautions:

- When passing the LAN cable through the cable clamps, be sure to leave some slack in the cable between the LAN cable connector on the printer and the cable clamp. Too much tension on the cable could subject the LAN connector to stress, resulting in connection problems.
- If the LAN cable is thick, do not force it through the cable clamps.

- 3 Plug the LAN cable into the connection terminal of the hub that is installed on the network that the computer is connected to

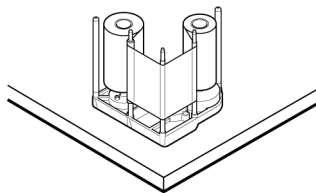
Connecting Multiple Printers

- To connect multiple printer units to one computer via USB, assign a different unit number from 1 to 10 to each of the printers. ["Unit Number Setting"](#) ([page 56](#))
- To connect multiple printers to the same network, set a different IP address for each printer.

Installing the Ink Ribbon

Cautions:

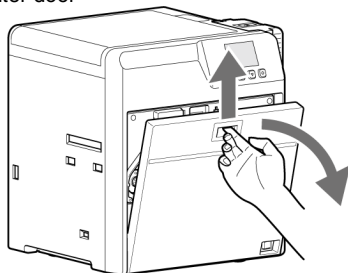
- If the Security Lock is on, deactivate it. After work is complete, activate the Security Lock again.
- Stand the cassette on a flat surface as illustrated in the diagram. Avoid doing so on the floor as dust attached to it may cause printing errors.



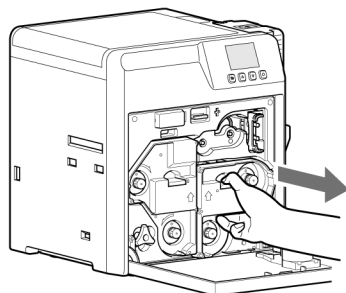
- Do not touch the inked surface (the side that faces outward when installed) with your hand. Touching it may cause printing errors. Put on the supplied gloves when handling the ink ribbon.
- When installing a used ink ribbon, align the yellow side of the unused ribbon with the arrow indicated on the label of the cassette. If the position of the yellow side is not properly aligned, the print may turn out light.
- The cassette is heavy when the ink ribbon is loaded. To prevent the cassette from dropping during handling, make sure to hold it with both hands.
- Do not perform any work on the printer door. Do not place heavy objects or apply load on the printer. Doing so may damage it.
- During replacement, clean the four bobbin holders on the printer. If burrs produced by friction with the bobbins are attached to the bobbin holders, they may fall onto the card, ink ribbon, or retransfer film, causing printing errors.

"Bobbin Holders" (page 106)

1 Open the printer door



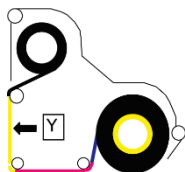
2 Press and hold down the cassette button, and remove the ink ribbon cassette (on the right)



- When replacing the ink ribbon, remove the ink ribbon.

3 Install a new ink ribbon

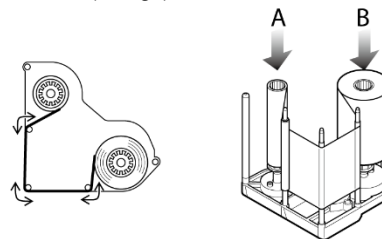
- Install while referring to the indication on the label of the cassette.



- ① With the inked surface facing outward, align the yellow side of the unused ribbon with the arrow on the cassette, and unwind it along the three shafts

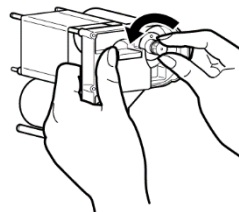
- ② Insert the ink ribbon firmly into the bobbin holders with the ribbon set to the far end of the guides

- A : Take-up side (black)
- B : Unused side (orange)

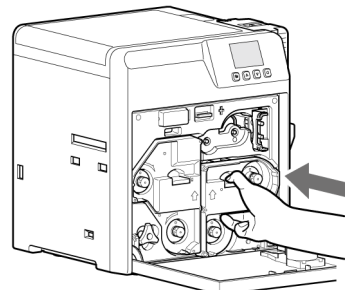
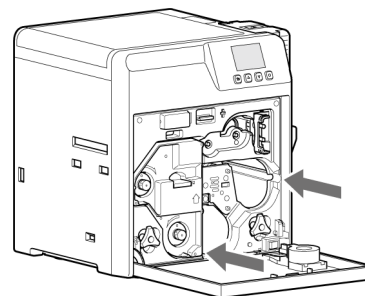


4 Remove any slack in the ink ribbon

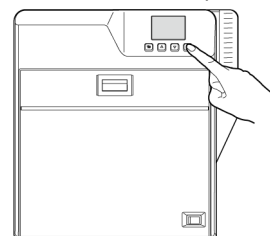
- ① Hold the cassette
- ② Turn the knob in the direction indicated by the arrow



5 Insert the cassette all the way in along the guide rail until a "click" sound is heard, followed by closing the printer door



6 Press Init. → Select to reset the printer



Memo:

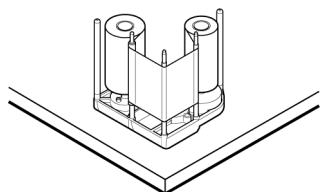
- To avoid printing errors, it is recommended that you forward by one or two images after installing the ink ribbon cassette or retransfer film cassette.

"Initializing from the Error Display" (page 48)

Installing the Retransfer Film

Cautions:

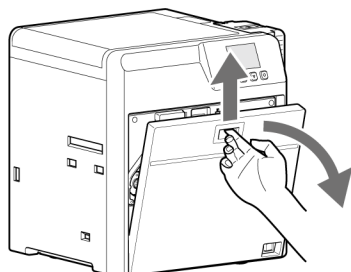
- If the Security Lock is on, deactivate it. After work is complete, activate the Security Lock again.
- Stand the cassette on a flat surface as illustrated in the diagram. Avoid doing so on the floor as dust attached to it may cause printing errors.



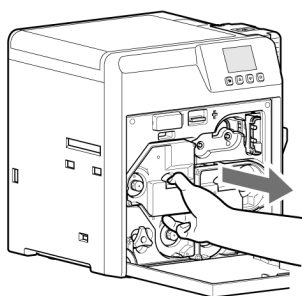
- Do not touch the retransfer face (the side that faces outward when installed) with your hand. Touching it may cause printing errors. Put on the supplied gloves when handling the retransfer film.
- The cassette is heavy when the retransfer film is loaded. To prevent the cassette from dropping during handling, make sure to hold it with both hands.
- When installing a used retransfer film, align the unused side of the film with the arrow indicated on the label of the cassette. Improper alignment may result in errors, or the print may turn out light.
- When installing a new film, make sure that at least four black lines are wound onto the take-up side. Insufficient winding may cause the printer to malfunction.
- Do not perform any work on the printer door. Do not place heavy objects or apply load on the printer. Doing so may damage it.
- During replacement, clean the four bobbin holders on the printer. If burrs produced by friction with the bobbins are attached to the bobbin holders, they may fall onto the card, ink ribbon, or retransfer film, causing printing errors.

["Bobbin Holders" \(page 106\)](#)

1 Open the printer door



2 Press and hold down the cassette button, and remove the retransfer film cassette (on the left)

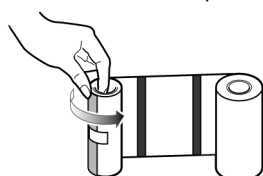


- When replacing the retransfer film, remove the retransfer film.

3 Install a new retransfer film

- Install while referring to the indication on the label of the cassette.

- ① When installing the retransfer film, make sure that at least four black lines are wound onto the take-up side



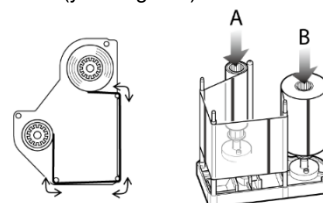
- ② With the retransfer face facing outward, align the unused side of the film with the arrow on the cassette, and unwind it along the three shafts

Cautions:

- When unwinding the retransfer film along the three shafts, unwind it from the unused side of the film.

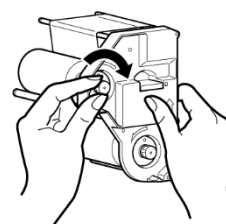
- ③ Insert the retransfer film firmly into the bobbin holders with the film set to the far end of the guides

- A : Take-up side (black)
- B : Unused side (yellow-green)

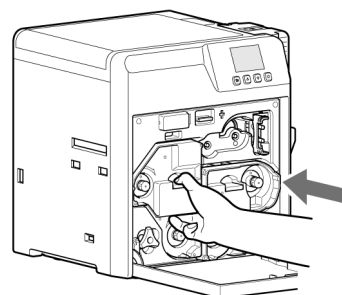
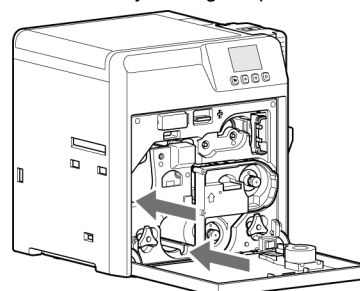


4 Remove any slack in the film

- ① Hold the retransfer film cassette
- ② Turn the knob in the direction indicated by the arrow



- 5 Insert the cassette all the way in along the guide rail until a "click" sound is heard, followed by closing the printer door

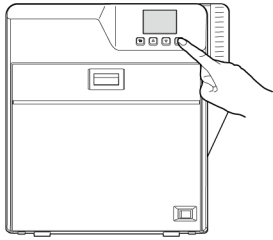


Cautions:

- While in the transport mode, the retransfer film cassette cannot be installed to the printer with the retransfer film loaded. With the printer door closed, turn on the power to cancel the transport mode.

["Transport Mode Setting" \(page 57\)](#)

6 Press  Init. →  Select to reset the printer



Memo:

- To avoid printing errors, it is recommended that you forward by one or two images after installing the ink ribbon cassette or retransfer film cassette.

["Initializing from the Error Display" \(page 48\)](#)

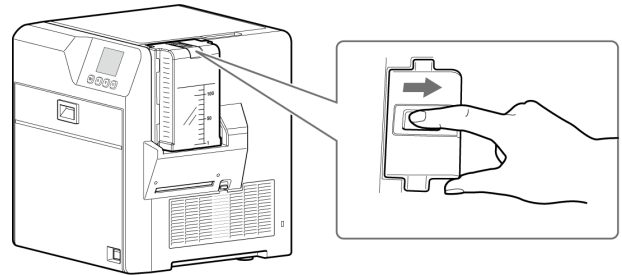
Setting Cards

- The card hopper is able to store up to about 120 cards with a thickness of 0.76 mm.

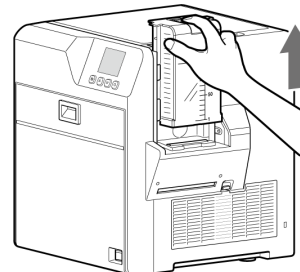
Cautions:

- Get ready cards that are designated by the authorized dealer.
- If the Security Lock is on, deactivate it. After work is complete, activate the Security Lock again.
- Do not touch the printing surface of the card. Touching it may cause printing errors. Put on the supplied gloves when handling the cards.
- To prevent card jams from occurring, limit the number of cards stored in the card hopper at any time to about 100 pieces regardless of the card thickness.
- When using new cards, set them after making sure that they are not adhered to each other due to static.
- Align the cards before setting them in the printer. Otherwise, the card hopper cover may not close properly, and this may damage the printer.
- Printing the card on the side with the magnetic stripe may cause printing errors or damage to the card's functions. If you want to do so, please consult our authorized dealers in advance.
- To set cards with both functions (magnetic stripe and contact IC), follow the procedure for setting the contact IC card.

1 Set the card hopper knob to [OPEN]



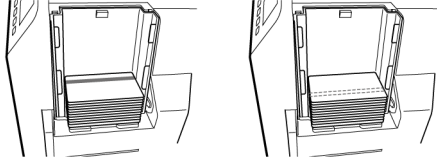
2 Lift to remove the card hopper cover



3 Align the orientation of the cards, and set them in the printer

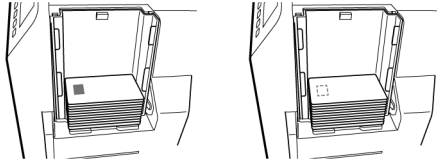
■ Magnetic stripe cards

- Set the card with the magnetic stripe facing upward and toward the printer, or facing downward and toward you.



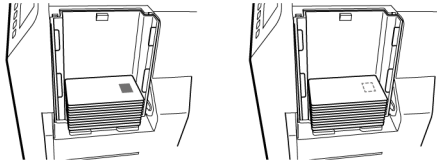
■ JIS contact IC cards

- Set the card with the Contact IC terminal facing upward and toward the front of the printer, or downward and toward the front of the printer.
- For single-sided printers, set the cards with the IC terminal facing down and toward the front of the printer.

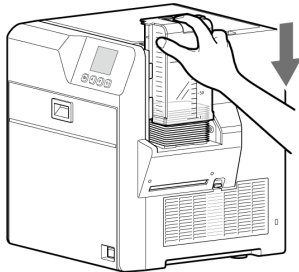


■ ISO contact IC cards

- Set the card with the Contact IC terminal facing upward and toward the rear of the printer, or downward and toward the rear of the printer.
- For single-sided printers, set the cards with the IC terminal facing down and toward the rear of the printer.



4 Install the card hopper cover, and set the card hopper knob to [LOCK]



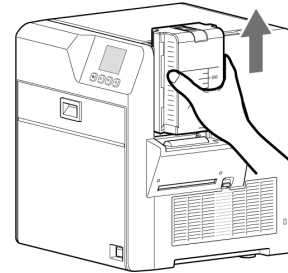
■ Adjusting card thickness

- The thickness of a card which is adjustable is between 0.25 mm and 1.00 mm.

Factory preset mode is adjusted approximately 0.76 mm.

Please adjust thickness in accordance with the card which will be used.

- Remove the card hopper



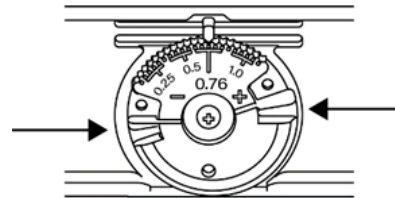
- Remove the card hopper cover

- A card separator is located inside the hopper.

- Slowly rotate the card separator

- Please adjust close to the card thickness which will be used.

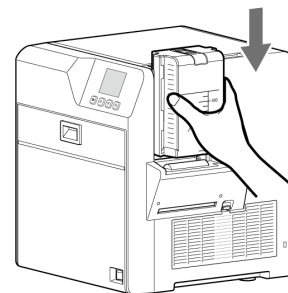
- Press and hold the area marked by the arrow in the diagram, then rotate it.



Memo:

- If the card cannot be discharged or get stuck during printing, adjust the card thickness by rotating the card separator in the anticlockwise direction by one scale at a time.
- If two cards are discharged at a time during printing, adjust the card thickness by rotating the card separator in the clockwise direction by one scale at a time.

- Install the card hopper cover, and install the card hopper



Computer Settings

- ["System Requirements"](#) (page 18)
- ["Install"](#) (page 18)
- ["Uninstall"](#) (page 31)
- ["IPSec"](#) (page 37)
- ["Printer Driver Settings"](#) (page 59)
- ["Port Monitor Settings"](#) (page 80)
- ["Status Monitor Settings"](#) (page 81)
- ["Inline Encoding"](#) (page 95)
- ["List of Error Codes"](#) (page 97)

System Requirements

The printer software runs under the following environments.

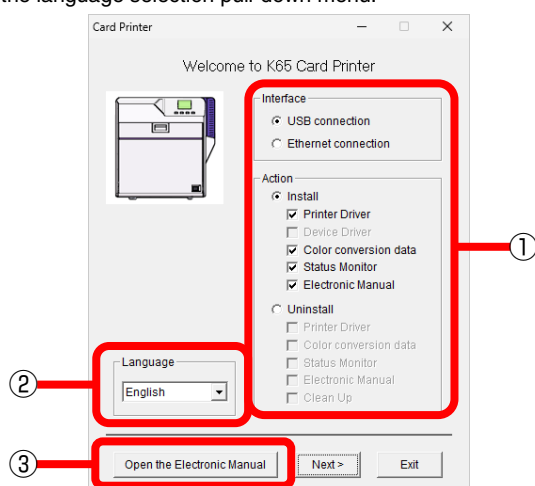
- Microsoft Windows 11
- Microsoft Windows 10 32bit / 64bit

Software License Agreement

- Users need to agree to the terms and conditions in the "Software License Agreement" before using the software. Please read through the License Agreement.

Installer

- The installer is included in the software package provided by our authorized dealers. The installer is used not only to install software but also to uninstall it. Please save or back up the software package as necessary.
- Using the installer (automatic execution program) enables easy installation of the printer software, as well as opening of the Electronic Manual.
- The installer application installs programs based on the Windows language settings. To change the language setting of a program, use the language selection pull-down menu.



- 1 Install / Uninstall
- 2 Language
- 3 Open the Electronic Manual

Install

Cautions:

- To install the software, log into the system as an administrative user (Administrators group).
- A part of the illustrations in this Electronic Manual may not be displayed depending on the computer's environment. Skip the procedures in this case.

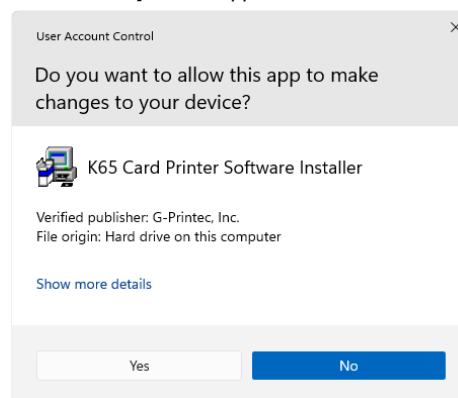
- ["Printer Driver \[USB Connection\]"](#) (page 18)
- ["Printer Driver \[Ethernet Connection\]"](#) (page 21)
- ["Network Sharing of Printer"](#) (page 24)
- ["Status Monitor"](#) (page 25)
- ["USB Driver"](#) (page 27)
- ["Ethernet Driver"](#) (page 28)
- ["Electronic Manual"](#) (page 29)
- ["Color Conversion Data"](#) (page 30)

Installing the Printer Driver [USB Connection]

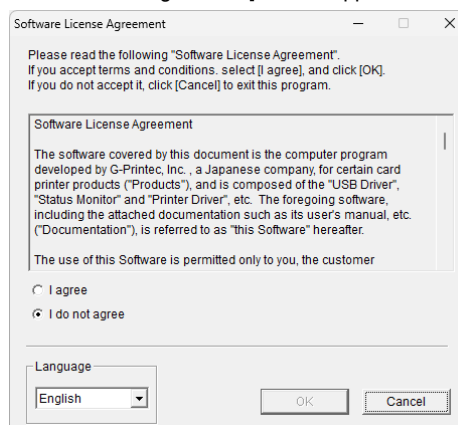
Cautions:

- Do not turn on the power of the printer until instruction asking you to do so appears on the installer.
- Do not connect the printer to the USB until instruction asking you to do so appears on the installer.
- You need to enable the USB hub before connecting the printer via this hub. Do not connect the printer to the USB hub until instruction asking you to do so appears.
- Exit all software that are currently running.
- If document printing is currently in progress, wait for all the jobs to complete.

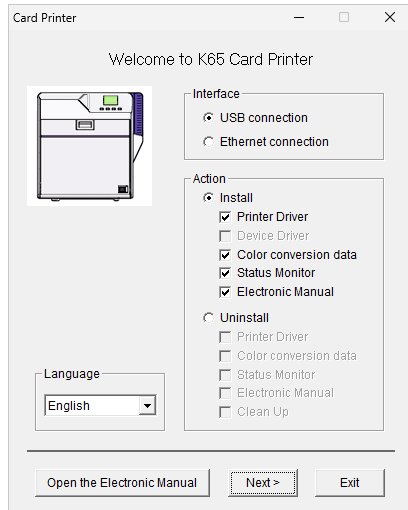
- 1 Run the "Setup.exe" file in software package
- [User Account Control] screen appears.



- 1 Click [Yes]
- A [Software License Agreement] screen appears.



- 2 Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
- 3 Read through the "Software License Agreement"
 - If you accept the terms and conditions, select [I agree].
 - If you do not agree, click [Cancel] to stop the installation.
- 4 Click [OK]
- A card printer setup screen appears.

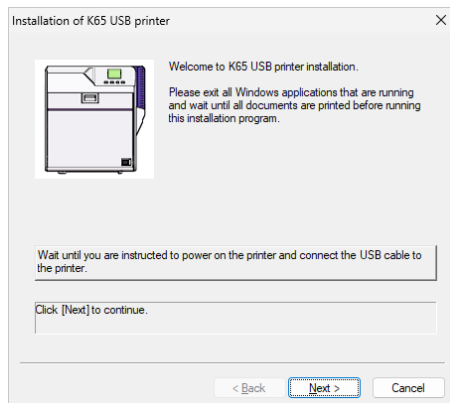


- 5 Select the [Printer Driver] checkbox on the card printer setup screen
 - ① Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
 - ② Select [USB connection] from [Interface]
 - ③ Select [Install] under [Action], and select the [Printer Driver] checkbox

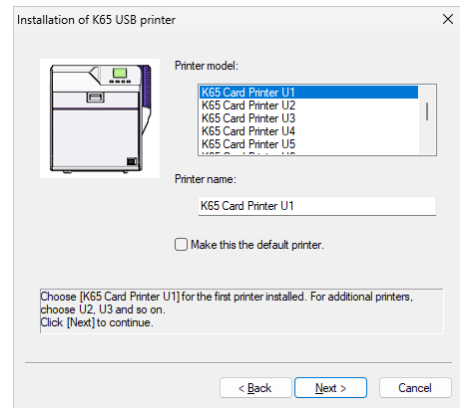
Memo:

- You can select other checkboxes to install them simultaneously. Selecting all checkboxes starts installation in the order of the Electronic Manual, Printer Driver, Color Conversion Data and Status Monitor.
- The same status monitor can be used for printers connected via USB and Ethernet.
- Clicking [Open the Electronic Manual] opens the Electronic Manual.
- Clicking [Exit] ends the installation.

- 6 Click [Next]
- A start installation screen appears.



- 7 Check the details, followed by clicking [Next]
- A screen for setting [Printer model] and [Printer name] appears.



- ① Select a [Printer model] according to the unit number of the printer
["Unit Number Setting"](#) (page 56)
- Select a [Printer model] according to the unit number of the printer. Installation may fail if the combination is incorrect.

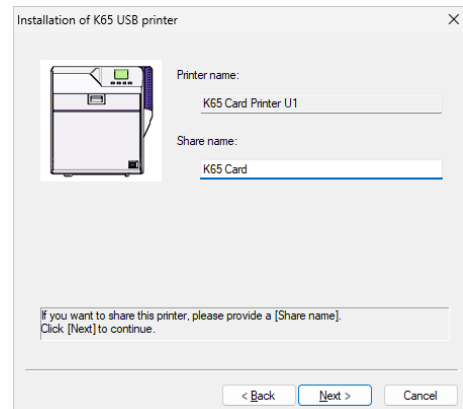
Printer Unit Number	Printer Model Options	USB Device Name
1 (Factory Setting)	K65 Card Printer U1	K65_WinUSB U1
2	K65 Card Printer U2	K65_WinUSB U2
3	K65 Card Printer U3	K65_WinUSB U3
4	K65 Card Printer U4	K65_WinUSB U4
5	K65 Card Printer U5	K65_WinUSB U5
6	K65 Card Printer U6	K65_WinUSB U6
7	K65 Card Printer U7	K65_WinUSB U7
8	K65 Card Printer U8	K65_WinUSB U8
9	K65 Card Printer U9	K65_WinUSB U9
10	K65 Card Printer U10	K65_WinUSB U10

- ② Enter the [Printer name]
- ③ Select the [Make this the default printer.] checkbox if necessary

Memo:

- Doing so enables you to set it as a default printer after installation is complete.

- 8 Click [Next]
- A screen for entering the shared name appears.
- Enter the shared name when you are sharing a printer.
- Empty the shared name when you are not sharing a printer.

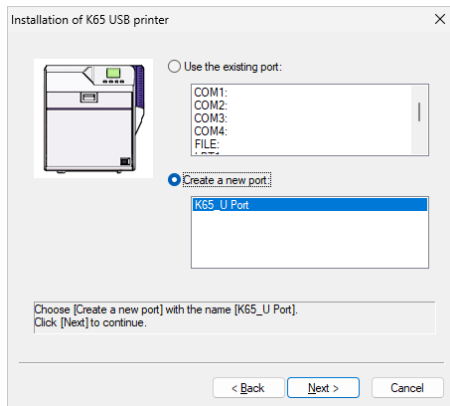


Memo:

- You can also set the shared name after installation is complete.

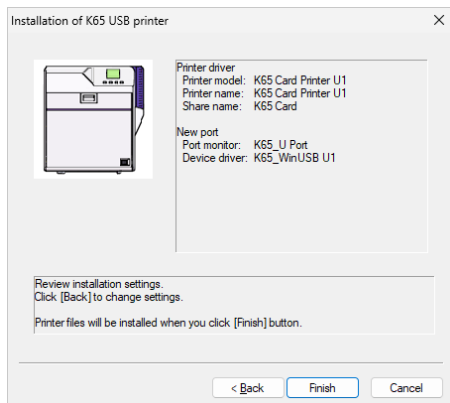
9 Click [Next]

- A port selection screen appears.
- Select [K65_U Port] under [Create a new port].



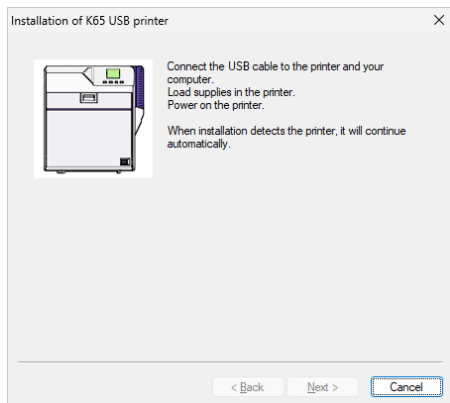
10 Click [Next]

- An install information confirmation screen appears.



11 Check the installation information, followed by clicking [Finish]

- To change the settings, click [Back].
- A USB cable connection instruction screen appears.

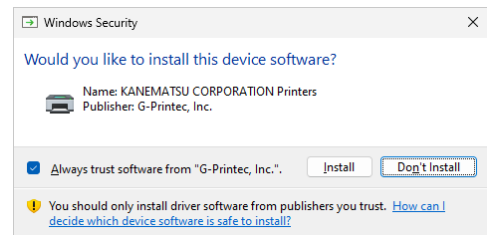


12 Connect the printer and computer using the USB cable

13 Turn on the power of the printer

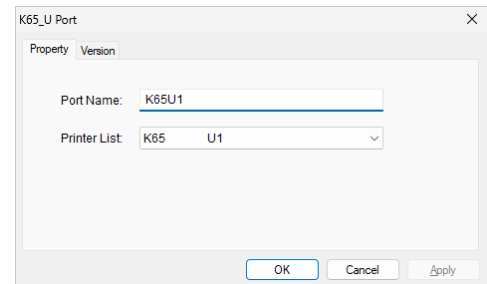
- Installation starts automatically after the printer is detected.
- Installation does not start if connection is improper. When this occurs, check the connection.

- A [Windows Security] screen appears.



① Click [Install]

- A [K65_U Port] screen appears.



14 Select the [Property] tab

- ① Select this printer from [Printer List]

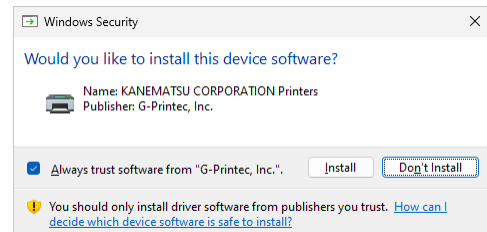
Memo:

- USB connection is improper if "No Device" appears in the [Printer List]. When this occurs, end the installation process and reinstall the program.
- If "No Selection" appears in the [Printer List], select a USB device name that coincides with the printer unit number that is currently being installed from the pull-down list.

- ② Enter the port name

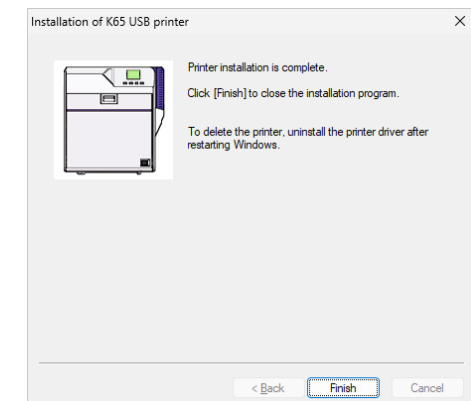
15 Click [OK]

- A [Windows Security] screen appears.



① Click [Install]

- A printer installation complete screen appears.

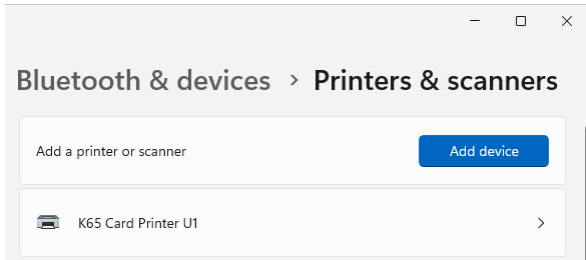


16 Click [Finish]

- Exits the installation program.

17 Open the list of printers from the [Settings] in Windows

- Check to ensure that the printer is added.



Cautions:

- To delete a printer, execute "Uninstall printer driver" after restarting Windows.

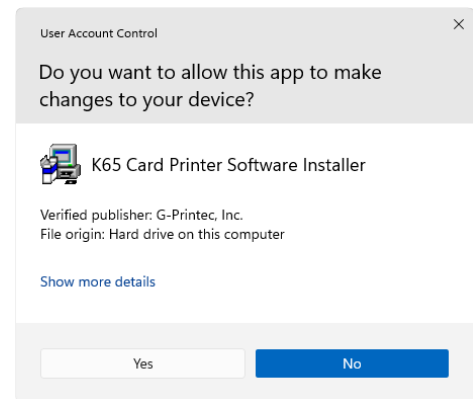
Installing the Printer Driver [Ethernet (LAN) Connection]

Cautions:

- Configure the IP address and other necessary settings for the printer in advance.
- Do not connect the printer to the USB port.
- Do not connect the printer to the Ethernet (LAN) until instruction asking you to do so appears on the installer.
- Do not turn on the power of the printer until instruction asking you to do so appears on the installer.
- You need to enable the LAN hub before connecting the printer via this hub.
- Exit all software that are currently running.
- If document printing is currently in progress, wait for all the jobs to complete.

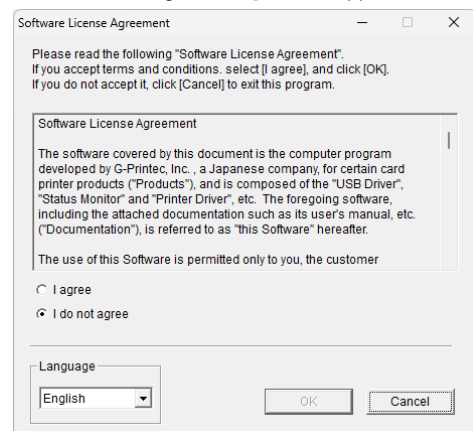
1 Run the "Setup.exe" file in software package

- [User Account Control] screen appears.



① Click [Yes]

- A [Software License Agreement] screen appears.



2 Select the language to use from the [Language] pull-down menu

- Select [Japanese] to switch to Japanese display.
- Select [English] to switch to English display.
- Select [Chinese] to switch to Chinese display.

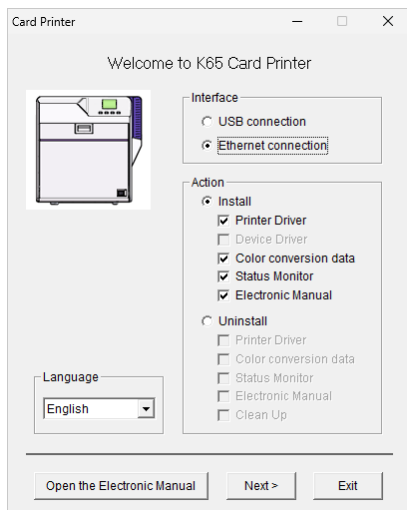
3 Read through the "Software License Agreement"

- If you accept the terms and conditions, select [I agree].
- If you do not agree, click [Cancel] to stop the installation.

Setup

4 Click [OK]

- A card printer setup screen appears.



5 Select the [Printer Driver] checkbox on the card printer setup screen

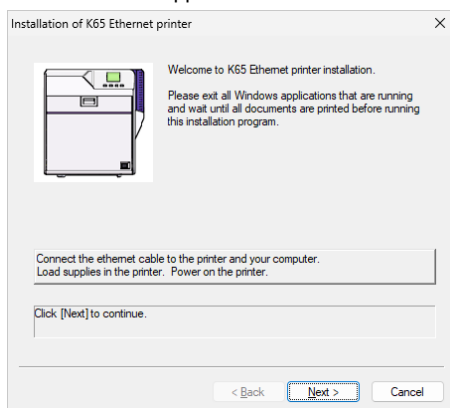
- ① Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
- ② Select [Ethernet connection] from [Interface]
- ③ Select [Install] under [Action], and select the [Printer Driver] checkbox

Memo:

- You can select other checkboxes to install them simultaneously. Selecting all checkboxes starts installation in the order of the Electronic Manual, Printer Driver, Color Conversion Data and Status Monitor.
- The same status monitor can be used for printers connected via USB and Ethernet.
- Clicking [Open the Electronic Manual] opens the Electronic Manual.
- Clicking [Exit] ends the installation.

6 Click [Next]

- A start installation screen appears.

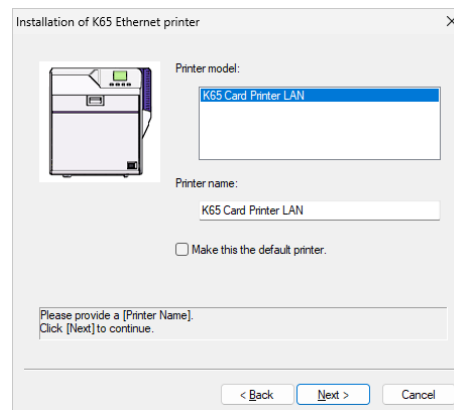


7 Connect the printer and computer using a LAN cable

8 Turn on the power of the printer

9 Check the details, followed by clicking [Next]

- A screen for setting [Printer model] and [Printer name] appears.



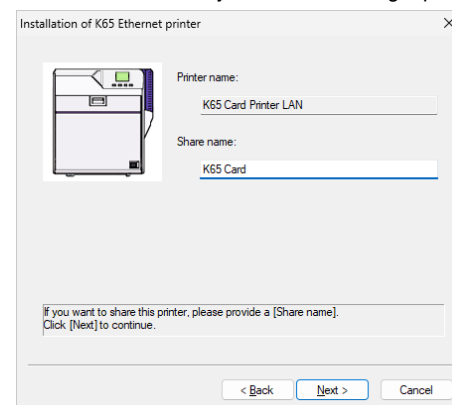
- ① Select a [Printer model]
- ② Enter the [Printer name]
- ③ Select the [Make this the default printer.] checkbox if necessary

Memo:

- Doing so enables you to set it as a default printer after installation is complete.

10 Click [Next]

- A screen for entering the shared name appears.
- Enter the shared name when you are sharing a printer.
- Empty the shared name when you are not sharing a printer.

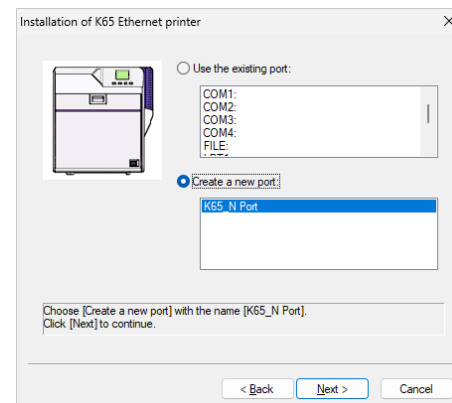


Memo:

- You can also set the shared name after installation is complete.

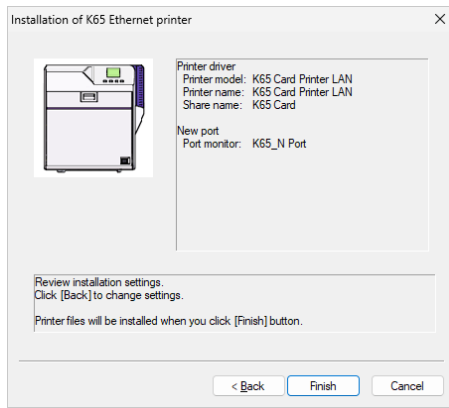
11 Click [Next]

- A port selection screen appears.
- Select [K65_N Port] under [Create a new port].

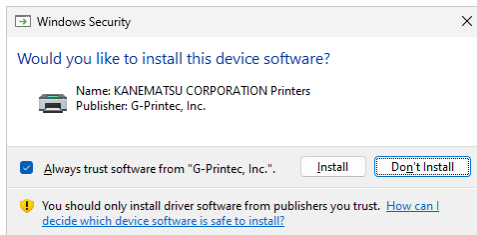


12 Click [Next]

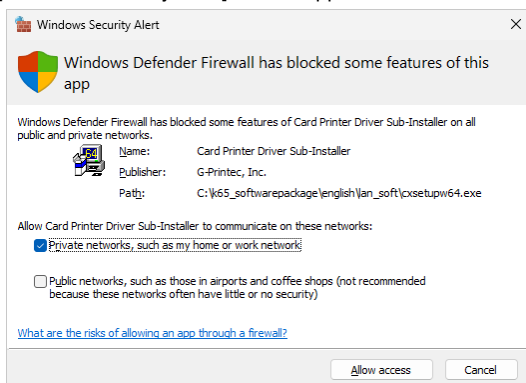
- An install information confirmation screen appears.

**13** Check the installation information, followed by clicking [Finish]

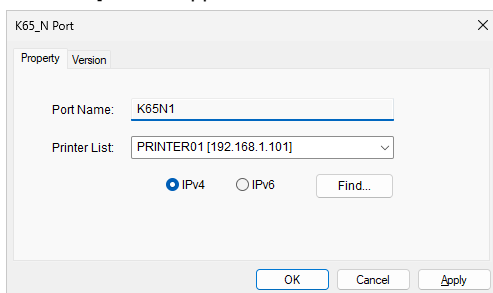
- To change the settings, click [Back].
- A [Windows Security] screen appears.

**①** Click [Install]

- A [Windows Security Alert] screen appears.

**②** Click [Allow access]

- The program will fail to function properly if you click on [Cancel].
- A [K65_N Port] screen appears.

**14** Select the [Property] tab**①** Select this printer from [Printer List]

- When connecting using the IPv4 address, select [IPv4], followed by clicking [Find...] to search for the printer. After clicking [IPv4], you can search for the printer by directly entering the IPv4 address in the [Printer List].

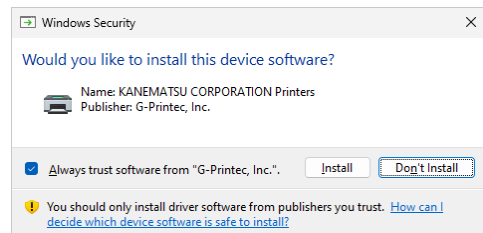
- When connecting using the IPv6 address, select [IPv6], followed by clicking [Find...] to search for the printer. After clicking [IPv6], you can search for the printer by directly entering the IPv6 address in the [Printer List].

Memo:

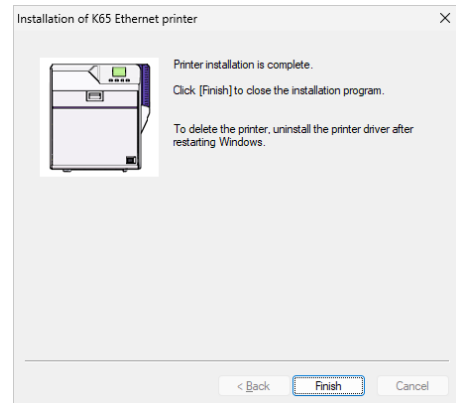
- Ethernet (LAN) connection is improper if “Not Connected” appears in the [Printer List]. If the printer that is currently being installed cannot be found by clicking [Find...], end the installation process and reinstall the program.
- If “Not Selected” appears in the [Printer List], select an item that coincides with the IP address of the printer that is currently being installed from the pull-down list.

② Enter the [Port Name]**15** Click [OK]

- A [Windows Security] screen appears.

**①** Click [Install]

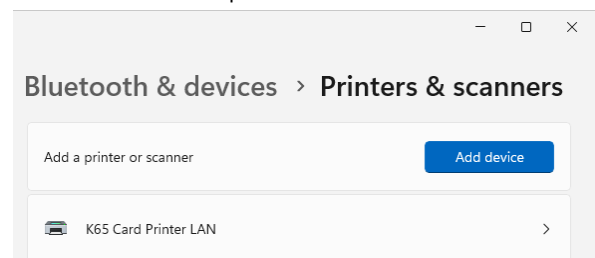
- A printer installation complete screen appears.

**16** Click [Finish]

- Exits the installation program.

17 Open the list of printers from the [Settings] in Windows

- Check to ensure that the printer is added.

**Cautions:**

- To delete a printer, execute “Uninstall printer driver” after restarting Windows.

Update of Printer Driver

1 Delete the existing printer driver

["Uninstalling the Printer Driver" \(page 31\)](#)

2 Restart Windows

3 Re-install the printer driver

["Installing the Printer Driver" \(page 18\)](#)

Network Sharing of Printer

Cautions:

- Check to ensure that you can access the computer to which the printer is connected.
 - Check also to ensure that the printer can be shared.
-

1 Open the list of printers from the [Settings] in Windows

2 Add the printer from the toolbar

Cautions:

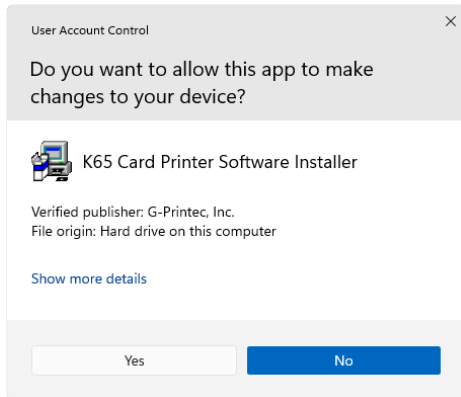
- When the access authority of the computer is not proper, the printer may not be able to perform printing even if installation of the printer driver is completed.
 - Ensure that the access authority is proper according to the instructions of the network administrator.
 - The method for configuring network sharing of printer may differ depending on the version of Windows.
-

Installing the Status Monitor

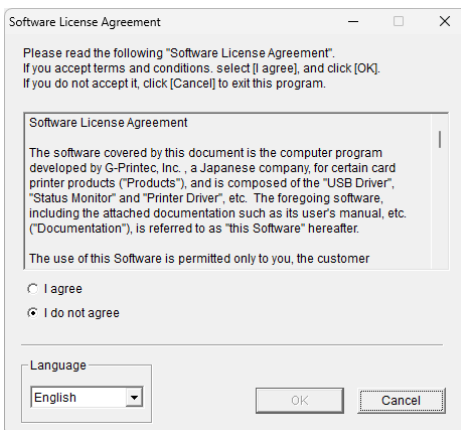
Cautions:

- The same status monitor can be used for printers connected via USB and Ethernet.
- Make sure that the status monitor is only installed once on a single computer.
- To continue using the status monitor after uninstalling the printer driver, update the status monitor accordingly.
["Update of Status Monitor" \(page 26\)](#)

- 1 Run the "Setup.exe" file in software package
- [User Account Control] screen appears.

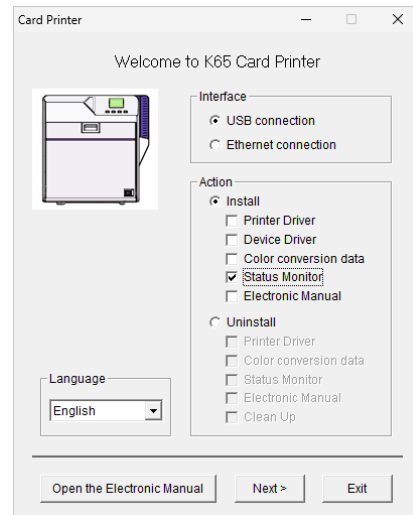


- ① Click [Yes]
- A [Software License Agreement] screen appears.



- 2 Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
- 3 Read through the "Software License Agreement"
 - If you accept the terms and conditions, select [I agree].
 - If you do not agree, click [Cancel] to stop the installation.

- 4 Click [OK]
- A card printer setup screen appears.

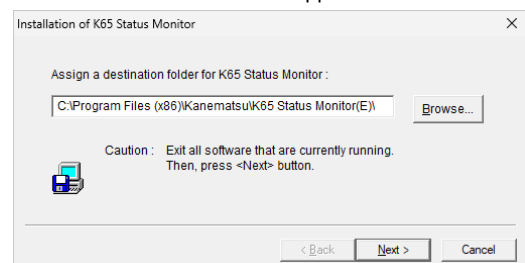


- 5 Select the [Status Monitor] checkbox on the card printer setup screen
 - ① Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
 - ② Select [USB connection] or [Ethernet connection] from [Interface]
 - ③ Select [Install] under [Action], and select the [Status Monitor] checkbox

Memo:

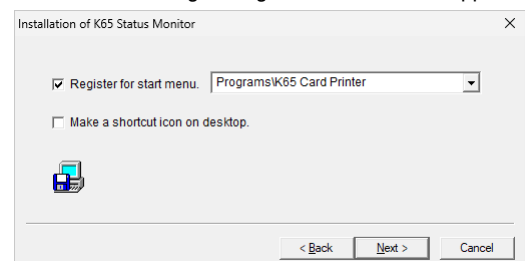
- You can select other checkboxes to install them simultaneously.
- Clicking [Open the Electronic Manual] opens the Electronic Manual.
- Clicking [Exit] ends the installation.

- 6 Click [Next]
- A status monitor installation screen appears.



- To change the displayed installation destination, click [Browse...] and specify the destination folder.

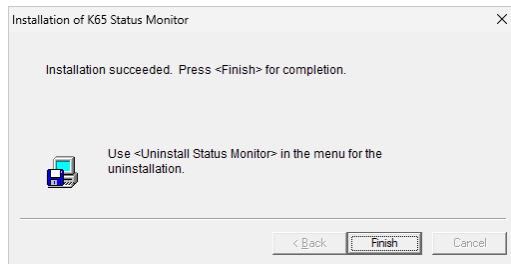
- 7 Click [Next]
- A selection screen for registering the status monitor appears.



- ① Select the [Register for start menu] checkbox
 - To change the registration in the displayed Start menu, make a selection from the [Register for start menu] list.
- ② Select the [Make a shortcut icon on desktop.] checkbox if necessary

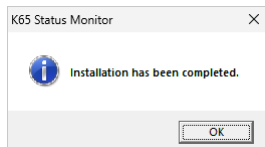
8 Click [Next]

- Installation starts.
- After installation is complete, an installation complete screen appears.



9 Click [Finish]

- An installation complete confirmation screen appears.



10 Click [OK]

- Exits the installation program.
- You can now start the status monitor from [Start menu].

Cautions:

- Even if a user is logged on with the administrator account, the user may be regarded as one without administrator authority when running the status monitor.
-

Update of Status Monitor

1 Delete the status monitor

["Uninstalling the Status Monitor" \(page 34\)](#)

2 Re-install the status monitor

["Installing the Status Monitor" \(page 25\)](#)

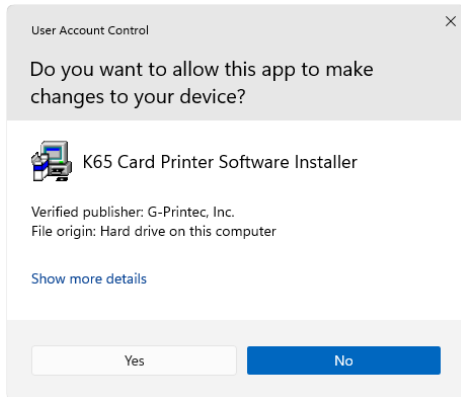
Installing the USB Driver

Cautions:

- The USB driver is also installed while you are installing the printer driver via USB connection.
- Install the USB driver additionally only when you want to set items other than the [Printer Name] on the [Printer Selection] screen of the status monitor.
- Do not turn on the power of the printer before the installation is complete.

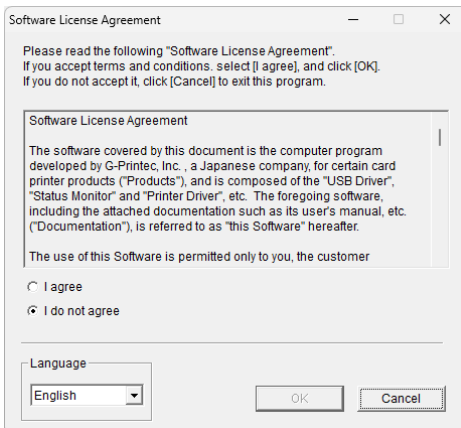
1 Run the "Setup.exe" file in software package

- [User Account Control] screen appears.



① Click [Yes]

- A [Software License Agreement] screen appears.



2 Select the language to use from the [Language] pull-down menu

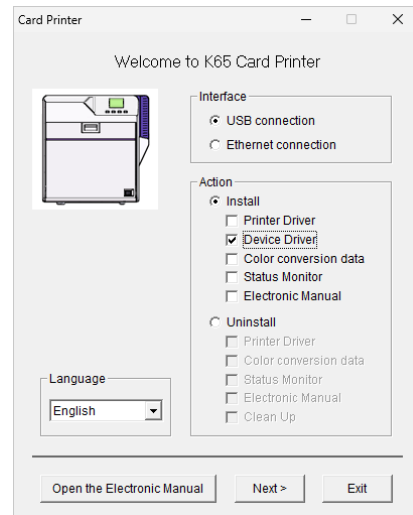
- Select [Japanese] to switch to Japanese display.
- Select [English] to switch to English display.
- Select [Chinese] to switch to Chinese display.

3 Read through the "Software License Agreement"

- If you accept the terms and conditions, select [I agree].
- If you do not agree, click [Cancel] to stop the installation.

4 Click [OK]

- A card printer setup screen appears.



5 Select the [Device Driver] checkbox on the card printer setup screen

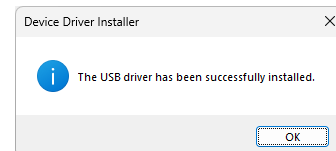
- ① Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
- ② Select [USB connection] from [Interface]
- ③ Select [Install] under [Action], and Uncheck [Printer Driver] checkbox
- ④ Select the [Device Driver] checkbox

Memo:

- You can select other checkboxes to install them simultaneously.
- Clicking [Open the Electronic Manual] opens the Electronic Manual.
- Clicking [Exit] ends the installation.

6 Click [Next]

- An installation complete confirmation screen appears.



7 Click [OK]

- Exits the installation program.

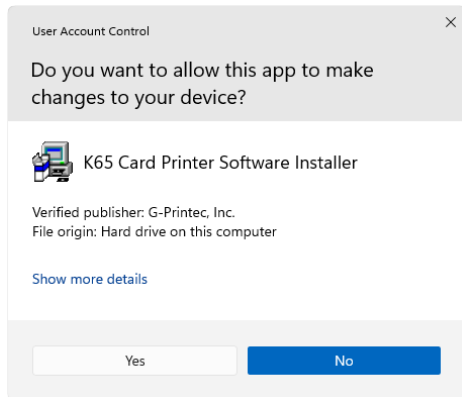
Installing the Ethernet Driver

Cautions:

- The Ethernet driver is also installed while you are installing the printer driver via Ethernet connection.
- Do not turn on the power of the printer before the installation is complete.

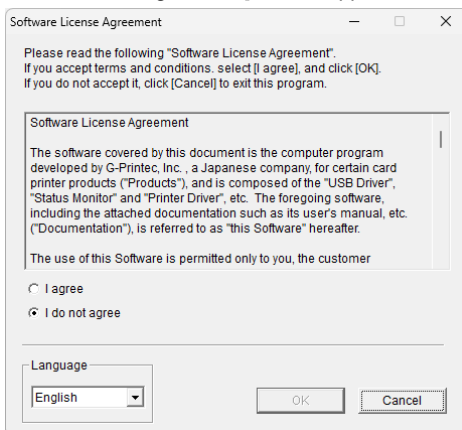
1 Run the "Setup.exe" file in software package

- [User Account Control] screen appears.



① Click [Yes]

- A [Software License Agreement] screen appears.



2 Select the language to use from the [Language] pull-down menu

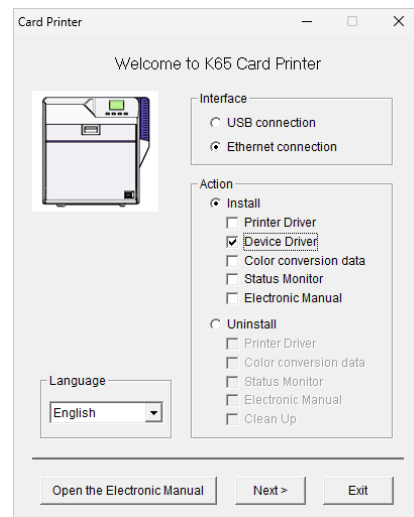
- Select [Japanese] to switch to Japanese display.
- Select [English] to switch to English display.
- Select [Chinese] to switch to Chinese display.

3 Read through the "Software License Agreement"

- If you accept the terms and conditions, select [I agree].
- If you do not agree, click [Cancel] to stop the installation.

4 Click [OK]

- A card printer setup screen appears.



5 Select the [Device Driver] checkbox on the card printer setup screen

① Select the language to use from the [Language] pull-down menu

- Select [Japanese] to switch to Japanese display.
- Select [English] to switch to English display.
- Select [Chinese] to switch to Chinese display.

② Select [Ethernet connection] from [Interface]

③ Select [Install] under [Action], and Uncheck [Printer Driver] checkbox

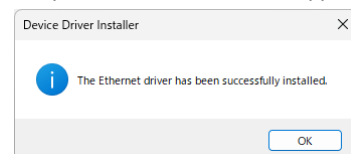
④ Select the [Device Driver] checkbox

Memo:

- You can select other checkboxes to install them simultaneously.
- Clicking [Open the Electronic Manual] opens the Electronic Manual.
- Clicking [Exit] ends the installation.

6 Click [Next]

- An installation complete confirmation screen appears.

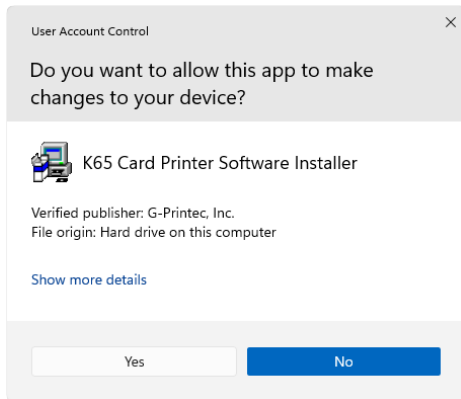


7 Click [OK]

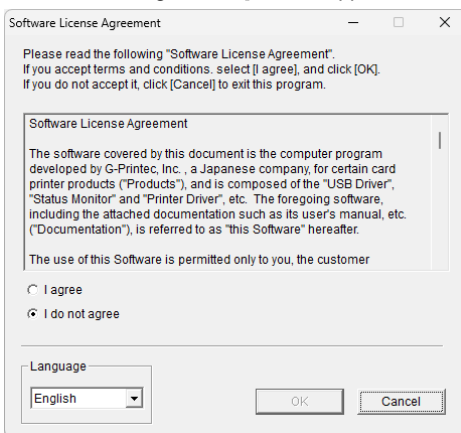
- Exits the installation program.

Installing the Electronic Manual

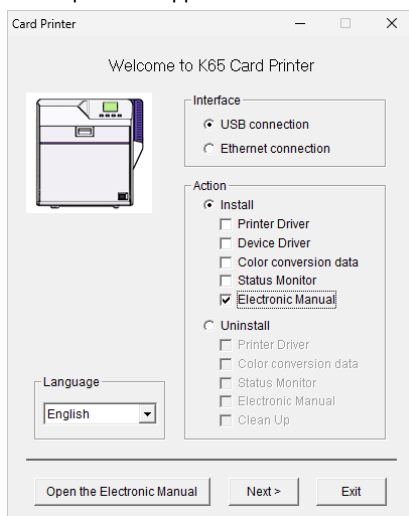
- 1 Run the "Setup.exe" file in software package
- [User Account Control] screen appears.



- ① Click [Yes]
- A [Software License Agreement] screen appears.



- 2 Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
- 3 Read through the "Software License Agreement"
 - If you accept the terms and conditions, select [I agree].
 - If you do not agree, click [Cancel] to stop the installation.
- 4 Click [OK]
- A card printer setup screen appears.



- 5 Select the [Electronic Manual] checkbox on the card printer setup screen
 - ① Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.

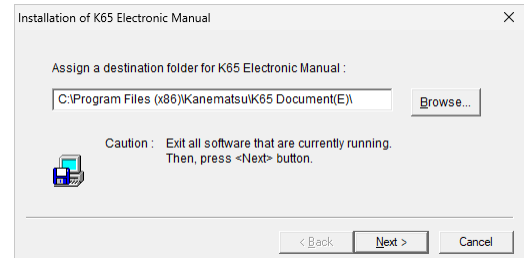
- ② Select [USB connection] or [Ethernet connection] from [Interface]
- ③ Select [Install] under [Action], and select the [Electronic Manual] checkbox

Memo:

- You can select other checkboxes to install them simultaneously.
- Clicking [Open the Electronic Manual] opens the Electronic Manual.
- Clicking [Exit] ends the installation.

6 Click [Next]

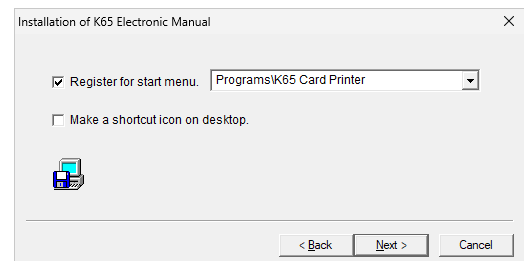
- An Electronic Manual installation screen appears.



- To change the displayed installation destination, click [Browse...] and specify the destination folder.

7 Click [Next]

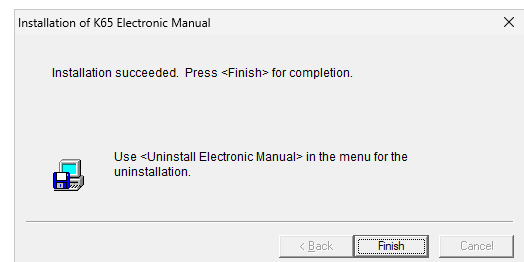
- A selection screen for registering the Electronic Manual appears.



- ① Select the [Register for start menu] checkbox
 - To change the registration in the displayed Start menu, make a selection from the [Register for start menu] list.
- ② Select the [Make a shortcut icon on desktop.] checkbox if necessary

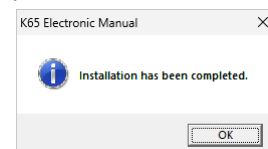
8 Click [Next]

- Installation starts.
- After installation is complete, an installation complete screen appears.



9 Click [Finish]

- An installation complete confirmation screen appears.



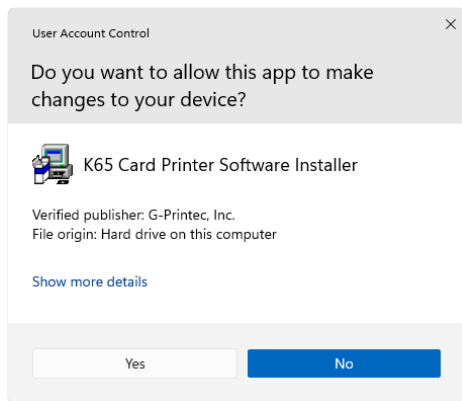
10 Click [OK]

- Exits the installation program.
- You can now open the Electronic Manual from [Start menu].

Installing the Color Conversion Data

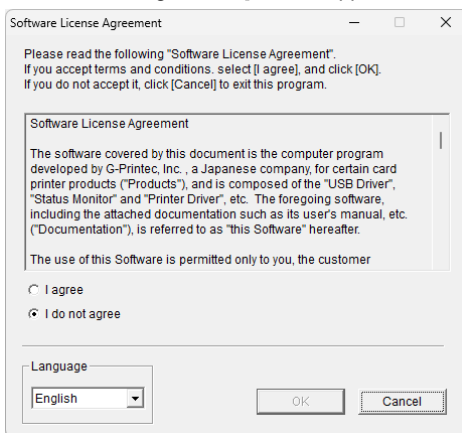
1 Run the "Setup.exe" file in software package

- [User Account Control] screen appears.



① Click [Yes]

- A [Software License Agreement] screen appears.



2 Select the language to use from the [Language] pull-down menu

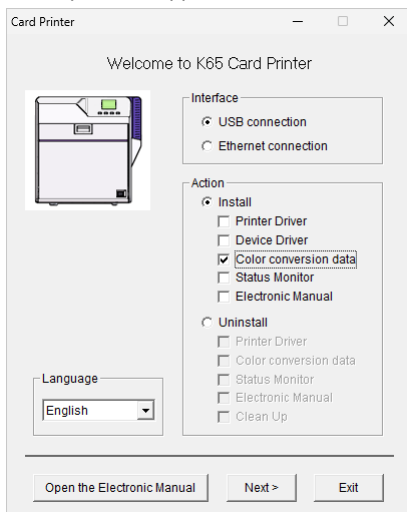
- Select [Japanese] to switch to Japanese display.
- Select [English] to switch to English display.
- Select [Chinese] to switch to Chinese display.

3 Read through the "Software License Agreement"

- If you accept the terms and conditions, select [I agree].
- If you do not agree, click [Cancel] to stop the installation.

4 Click [OK]

- A card printer setup screen appears.



5 Select the [Color Conversion Data] checkbox on the card printer setup screen

- ① Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.

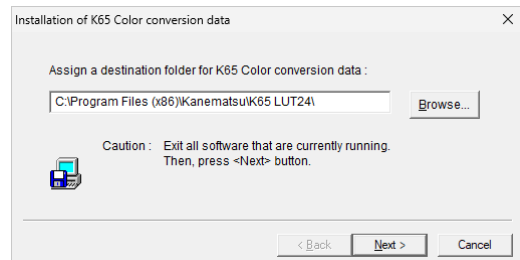
- ② Select [USB connection] or [Ethernet connection] from [Interface]
- ③ Select [Install] under [Action], and select the [Color Conversion Data] checkbox

Memo:

- You can select other checkboxes to install them simultaneously.
- Clicking [Open the Electronic Manual] opens the Electronic Manual.
- Clicking [Exit] ends the installation.

6 Click [Next]

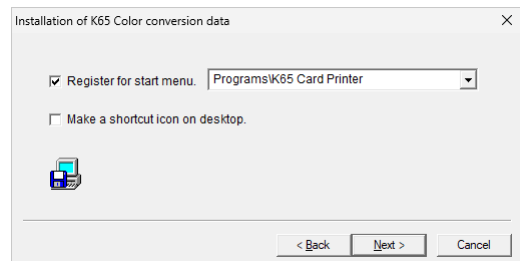
- A Color Conversion Data installation screen appears.



- To change the displayed installation destination, click [Browse...] and specify the destination folder.

7 Click [Next]

- A selection screen for registering the Color Conversion Data appears.



① Select the [Register for start menu] checkbox

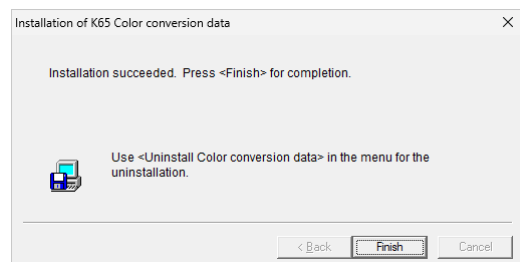
- To change the registration in the displayed Start menu, make a selection from the [Register for start menu] list.

② Select the [Make a shortcut icon on desktop.] checkbox if necessary

8 Click [Next]

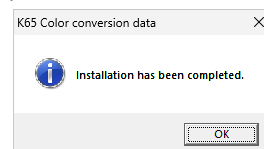
- Installation starts.

- After installation is complete, an installation complete screen appears.



9 Click [Finish]

- An installation complete confirmation screen appears.



10 Click [OK]

- Exits the installation program.

Uninstall

Cautions:

- When uninstalling, use the "Setup.exe" file in the software package.
- If you do not have the software package used during installation, please consult our authorized dealers.
- To uninstall the software, log into the system as an administrative user (Administrators group).
- A part of the illustrations in this Electronic Manual may not be displayed depending on the computer's environment. Skip the procedures in this case.

- ["Printer Driver \[USB Connection\]"](#) (page 31)
- ["Printer Driver \[Ethernet Connection\]"](#) (page 32)
- ["Status Monitor"](#) (page 34)
- ["Electronic Manual"](#) (page 35)
- ["Color Conversion Data"](#) (page 36)

Uninstalling the Printer Driver [USB Connection]

Cautions:

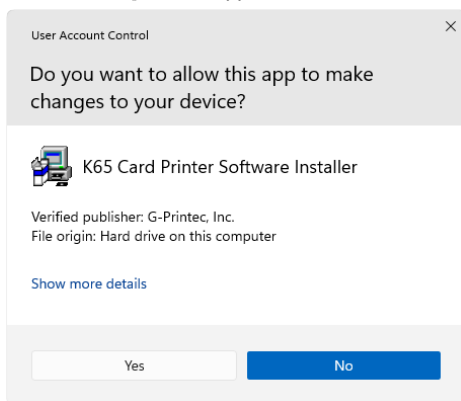
- Do not execute "Uninstall" if there are software that are currently running.
- If document printing is currently in progress, wait for all the jobs to complete.

- 1 Start up Windows
- 2 Connect the computer and printer using the USB cable, and turn on the power of the printer

Cautions:

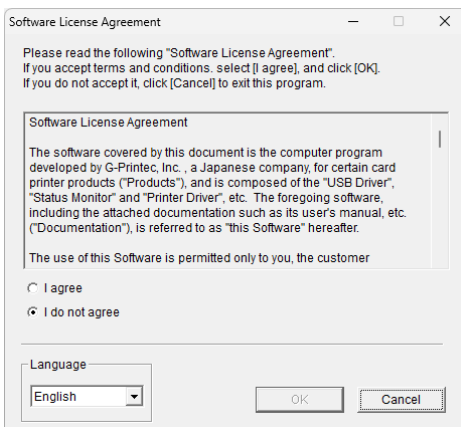
- Check to ensure that the printer connected via USB is recognized on the computer. If the USB connection is not recognized, the USB driver cannot be correctly deleted.

- 3 Run the "Setup.exe" file in software package
- [User Account Control] screen appears.

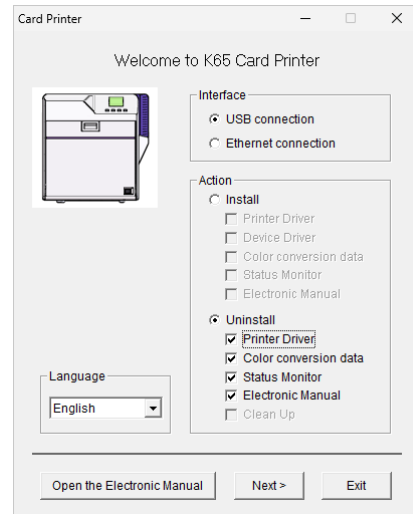


- ① Click [Yes]

- A [Software License Agreement] screen appears.



- 4 Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
- 5 Read through the "Software License Agreement"
 - Select [I agree].
- 6 Click [OK]
- A card printer setup screen appears.



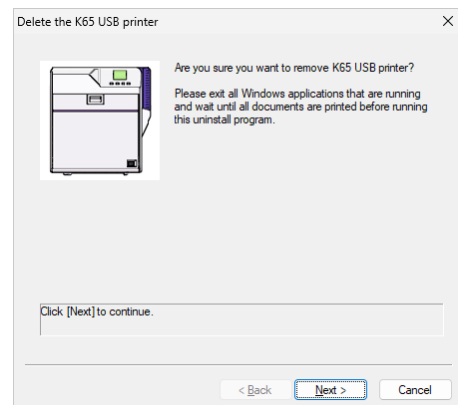
- 7 Select the [Printer Driver] checkbox on the card printer setup screen
 - ① Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
 - ② Select [USB connection] from [Interface]
 - ③ Select [Uninstall] under [Action], and select the [Printer Driver] checkbox

Memo:

- You can select other checkboxes to uninstall them simultaneously.

- 8 Click [Next]

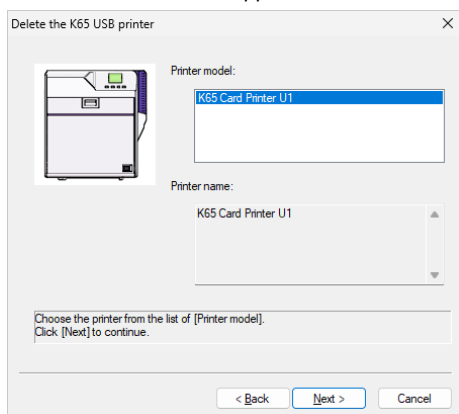
- A [Delete the K65 USB printer] screen appears.



Setup

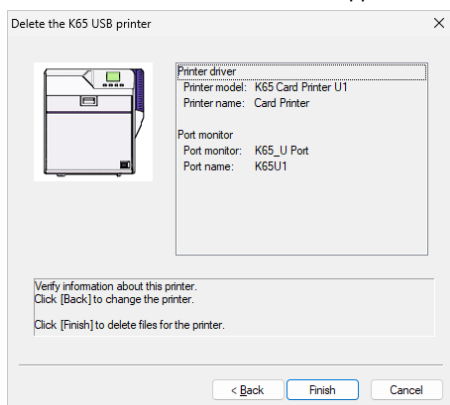
9 Check the details, followed by clicking [Next]

- A printer model selection screen appears.



10 Select the printer to uninstall, and click [Next]

- An uninstall information confirmation screen appears.



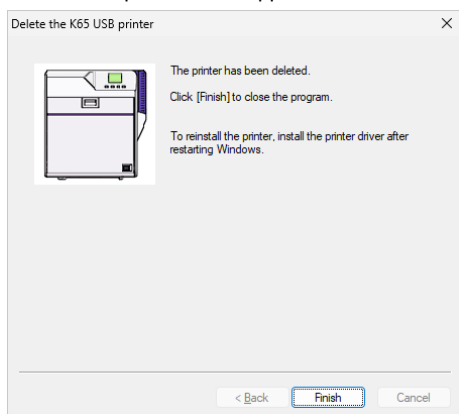
11 Check the details, followed by clicking [Next]

- To change a printer, click [Back].

Cautions:

- Uninstall the USB printer drivers accordingly for each printer unit number.

- An uninstallation complete screen appears.



12 Click [Finish]

- Exits uninstallation.

Cautions:

- To reinstall the printer driver, perform the installation procedures after restarting Windows.

Uninstalling the Printer Driver [Ethernet (LAN) Connection]

Cautions:

- Do not execute "Uninstall" if there are software that are currently running.
- If document printing is currently in progress, wait for all the jobs to complete.

1 Start up Windows

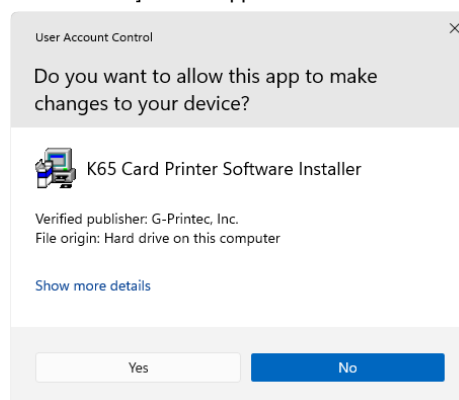
2 Connect the computer and printer using a LAN cable, and turn on the power of the printer

Cautions:

- Do not connect a USB cable to the printer.

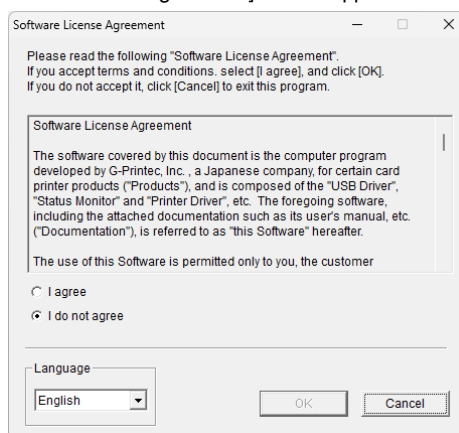
3 Run the "Setup.exe" file in software package

- [User Account Control] screen appears.



① Click [Next]

- A [Software License Agreement] screen appears.



4 Select the language to use from the [Language] pull-down menu

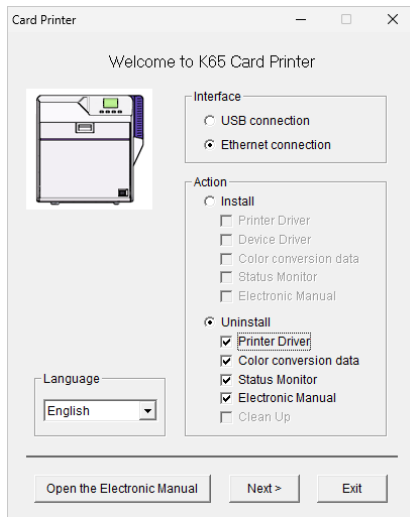
- Select [Japanese] to switch to Japanese display.
- Select [English] to switch to English display.
- Select [Chinese] to switch to Chinese display.

5 Read through the "Software License Agreement"

- Select [I agree].

6 Click [OK]

- A card printer setup screen appears.



7 Select the [Printer Driver] checkbox on the card printer setup screen

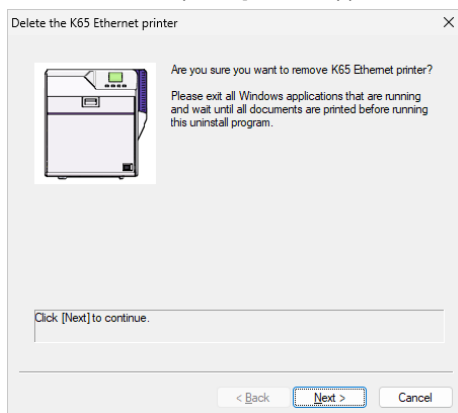
- ① Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
- ② Select [Ethernet connection] from [Interface]
- ③ Select [Uninstall] under [Action], and select the [Printer Driver] checkbox

Memo:

- You can select other checkboxes to uninstall them simultaneously.

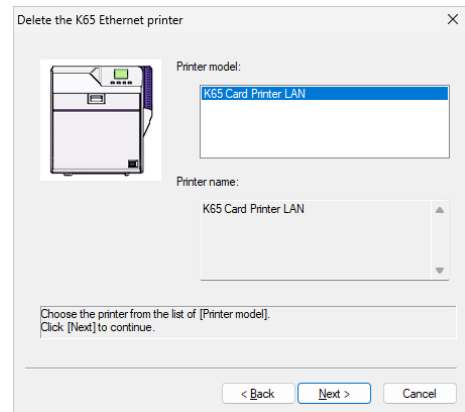
8 Click [Next]

- A [Delete the K65 Ethernet printer] screen appears.



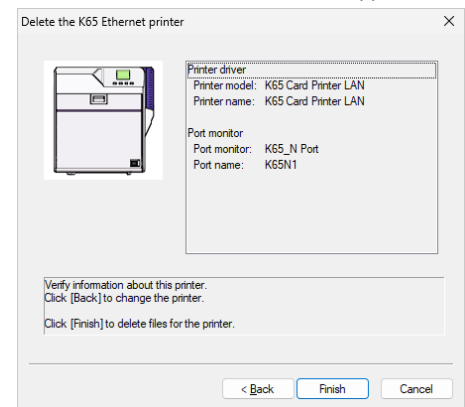
9 Check the details, followed by clicking [Next]

- A printer model selection screen appears.



10 Select the printer to uninstall, and click [Next]

- An uninstall information confirmation screen appears.



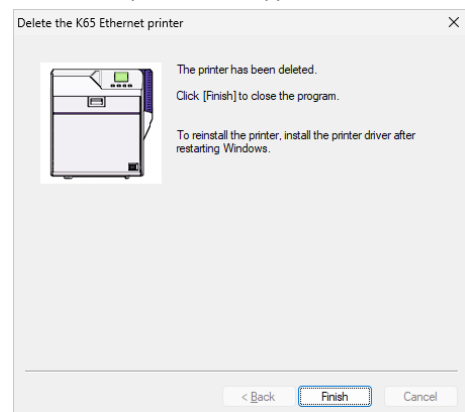
11 Check the details, followed by clicking [Finish]

- To change a printer, click [Back].

Cautions:

- In the case where multiple Ethernet (LAN) printer drivers are installed, the uninstaller deletes all of these printer drivers.

- An uninstallation complete screen appears.



12 Click [Finish]

- Exits uninstallation.

Cautions:

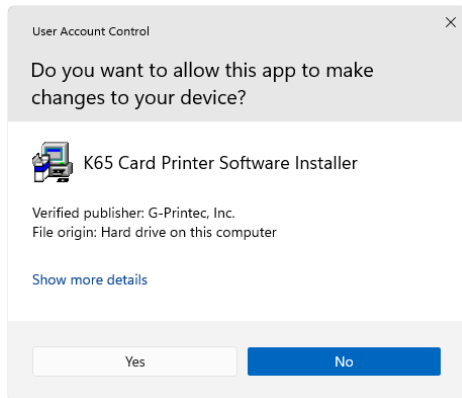
- To reinstall the printer driver, perform the installation procedures after restarting Windows.

Uninstalling the Status Monitor

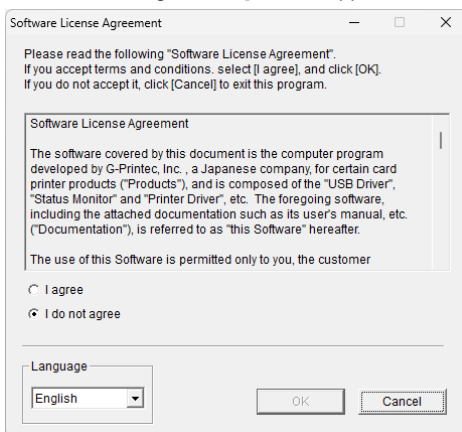
Cautions:

- Do not execute "Uninstall" if there are software that are currently running.
- If document printing is currently in progress, wait for all the jobs to complete.

- 1 Exit the status monitor
 - 2 Run the "Setup.exe" file in software package
- [User Account Control] screen appears.

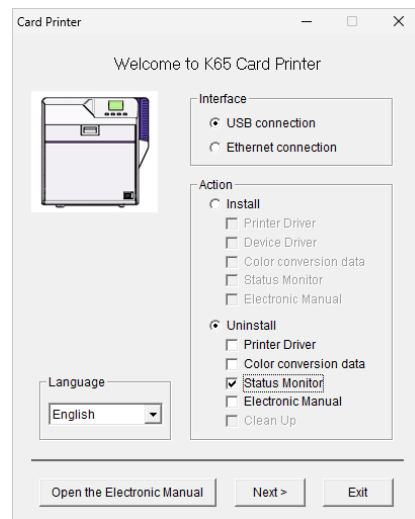


- ① Click [Next]
- A [Software License Agreement] screen appears.



- 3 Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
- 4 Read through the "Software License Agreement"
 - Select [I agree].

- 5 Click [OK]
- A card printer setup screen appears.

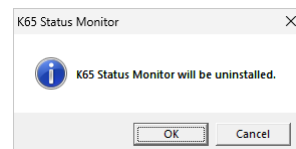


- 6 Select the [Status Monitor] checkbox on the card printer setup screen
 - ① Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
 - ② Select [USB connection] or [Ethernet connection] from [Interface]
 - ③ Select [Uninstall] under [Action], and select the [Status Monitor] checkbox

Memo:

- You can select other checkboxes to uninstall them simultaneously.

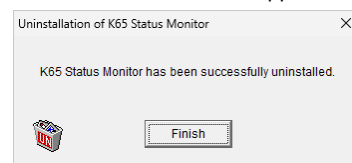
- 7 Click [Next]
- A status monitor deletion confirmation screen appears.



- 8 Click [OK]

Memo:

- If [Error] screen appears, click [OK] to proceed with the uninstallation.
- An Status Monitor deletion finish screen appears.



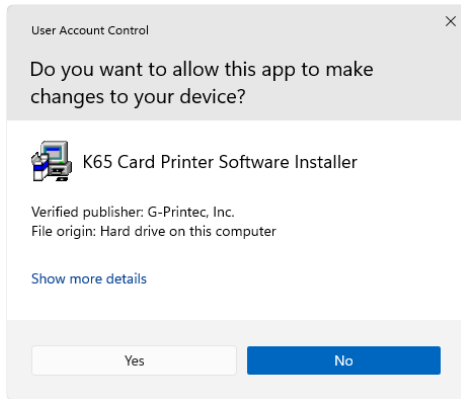
- 9 Click [Finish]
- Exits uninstallation.

Memo:

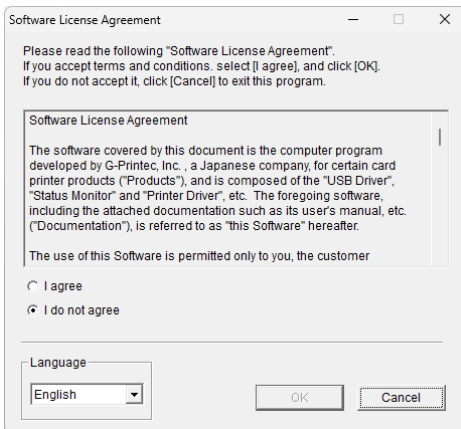
- You can also uninstall it from Windows settings or the Control Panel.

Uninstalling the Electronic Manual

- 1 Exit the Electronic Manual
- 2 Run the "Setup.exe" file in software package
- [User Account Control] screen appears.

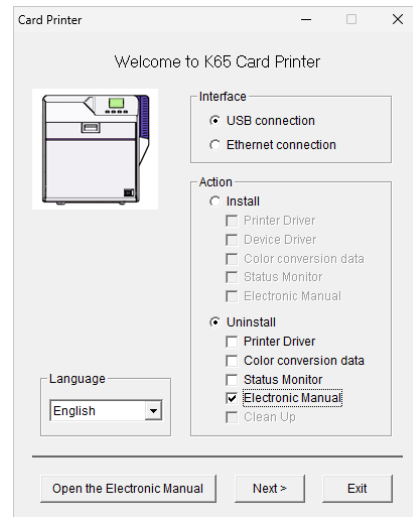


- ① Click [Yes]
- A [Software License Agreement] screen appears.



- 3 Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
- 4 Read through the "Software License Agreement"
 - Select [I agree].

- 5 Click [OK]
- A card printer setup screen appears.

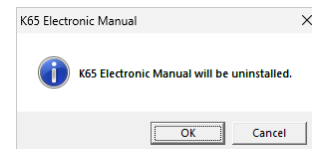


- 6 Select the [Electronic Manual] checkbox on the card printer setup screen
 - ① Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
 - ② Select [USB connection] or [Ethernet connection] from [Interface]
 - ③ Select [Uninstall] under [Action], and select the [Electronic Manual] checkbox

Memo:

- You can select other checkboxes to uninstall them simultaneously.

- 7 Click [Next]
- An Electronic Manual deletion confirmation screen appears.

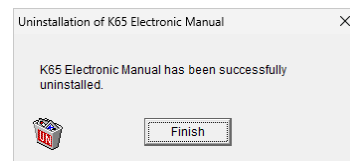


- 8 Click [OK]

Memo:

- If [Error] screen appears, click [OK] to proceed with the uninstallation.

- An Electronic Manual deletion finish screen appears.



- 9 Click [Finish]
- Exits uninstallation.

Memo:

- You can also uninstall it from Windows settings or the Control Panel.

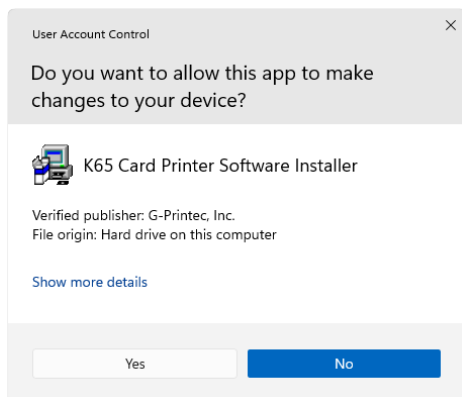
Uninstalling the Color Conversion Data

Cautions:

- If document printing is currently in progress, wait for all the jobs to complete.

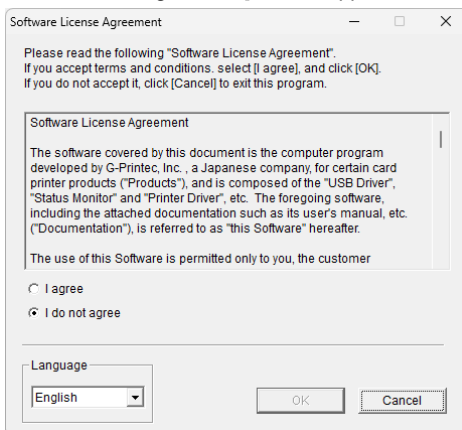
1 Run the "Setup.exe" file in software package

- [User Account Control] screen appears.



① Click [Yes]

- A [Software License Agreement] screen appears.



2 Select the language to use from the [Language] pull-down menu

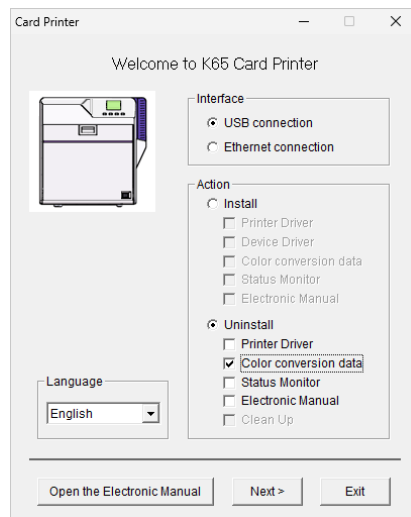
- Select [Japanese] to switch to Japanese display.
- Select [English] to switch to English display.
- Select [Chinese] to switch to Chinese display.

3 Read through the "Software License Agreement"

- Select [I agree].

4 Click [OK]

- A card printer setup screen appears.



5 Select the [Color conversion data] checkbox on the card printer setup screen

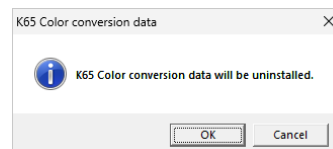
- ① Select the language to use from the [Language] pull-down menu
 - Select [Japanese] to switch to Japanese display.
 - Select [English] to switch to English display.
 - Select [Chinese] to switch to Chinese display.
- ② Select [USB connection] or [Ethernet connection] from [Interface]
- ③ Select [Uninstall] under [Action], and select the [Color conversion data] checkbox

Memo:

- You can select other checkboxes to uninstall them simultaneously.

6 Click [Next]

- A Color Conversion Data deletion confirmation screen appears.

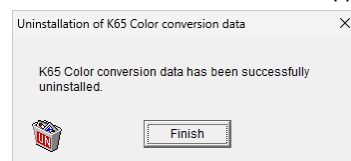


7 Click [OK]

Memo:

- If [Error] screen appears, click [OK] to proceed with the uninstallation.

- A Color Conversion Data deletion finish screen appears.



8 Click [Finish]

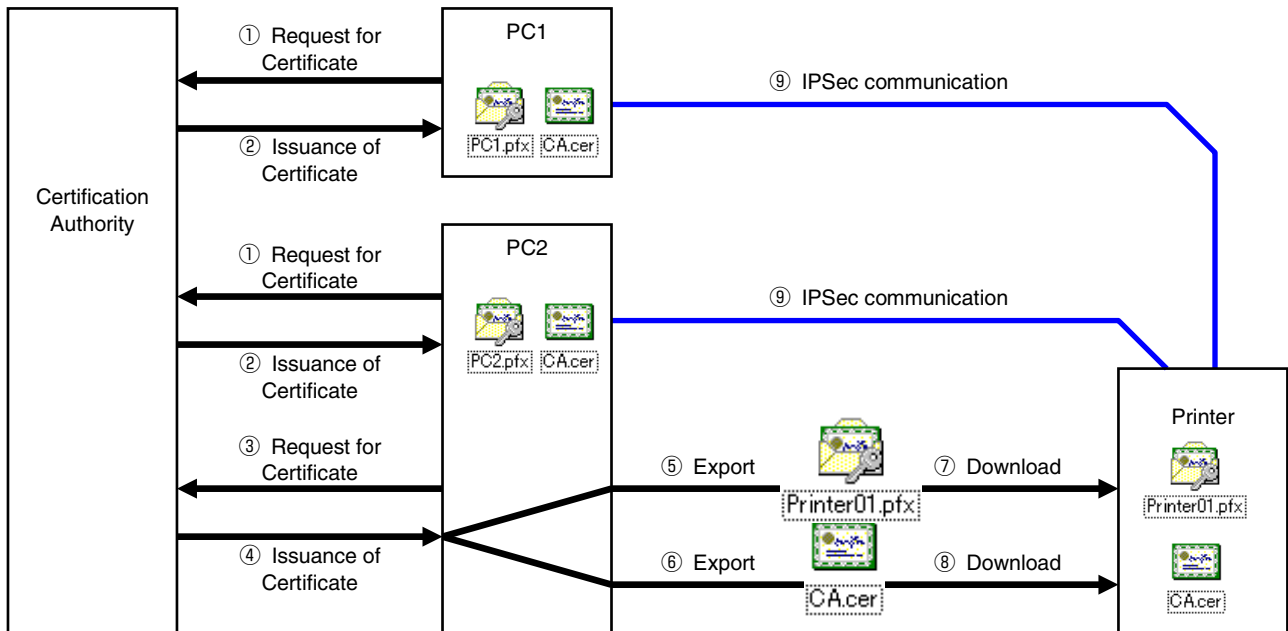
- Exits uninstallation.

Memo:

- You can also uninstall it from Windows settings or the Control Panel.

IPSec

Setting Procedures



Certificate Authentication

- ① Request the "PC Certificate" from the certification authority.
- ② The "PC Certificate" and "Certification Authority Certificate" are issued by the certification authority. Install these on the PC.
- ③ Request the "Printer Certificate" from the certification authority.
- ④ The "Printer Certificate" and "Certification Authority Certificate" are issued by the certification authority. Install these on the PC.
- ⑤ Export the "Printer Certificate" and save it in a file.
- ⑥ Export the "Certification Authority Certificate" and save it in a file.
- ⑦ Connect the printer via USB, and download the "Printer Certificate" using the status monitor.
- ⑧ Connect the printer via USB, and download the "Certification Authority Certificate" using the status monitor.
- ⑨ Connect the printer via the network (Ethernet), and enable IPsec (IP Security) on the PC to start IPsec communication.

Memo:

- Consult the network administrator regarding ① to ④ above.

Preshared Key Authentication

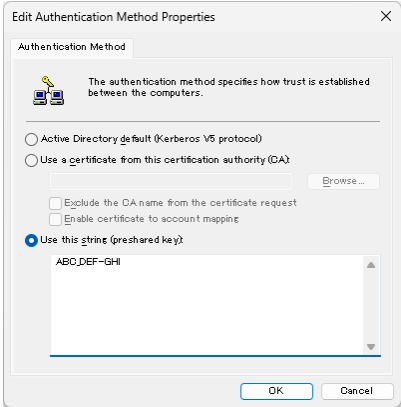
- ① Connect the printer via USB, and download the "Preshared Key File" using the status monitor.
- ② Connect the printer via the network (Ethernet), and enable IPsec (IP Security) on the PC to start IPsec communication.

Preshared Key File

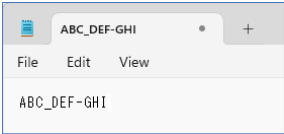
Cautions:

- Operate IPSec (IP Security) on Windows by following the instructions of the network administrator for the location where the printer is installed.
- Manage the “Preshared Key File” according to the instructions of the network administrator.

- 1 Start [IP Security Policy Management] under the MMC (Management Console)
- 2 Open the [Edit Authentication Method Properties] of the policy for which the preshared key is to be used



- 3 Make use of applications such as Windows Notepad to create a preshared key string, and save it as a file with the extension “.key”



- After saving, this file will be downloaded as the “Preshared Key File” when setting “Preshared Key Authentication” using the status monitor.
- ASCII characters that can be used for the preshared key of the printer are as follows. The maximum length is 255 characters.

	2x	3x	4x	5x	6x	7x
0		0	@	P		p
1		1	A	Q	a	q
2		2	B	R	b	r
3		3	C	S	c	s
4		4	D	T	d	t
5		5	E	U	e	u
6		6	F	V	f	v
7		7	G	W	g	w
8	(	8	H	X	h	x
9	)	9	I	Y	i	y
A			J	Z	j	z
B			K		k	
C			L		l	
D	-		M		m	
E	.		N		n	
F			O	_	o	

Memo:

- For procedures to set “Preshared Key Authentication” on the printer, refer to the section of the Status Monitor Settings.
["File settings required for preshared key authentication"](#)

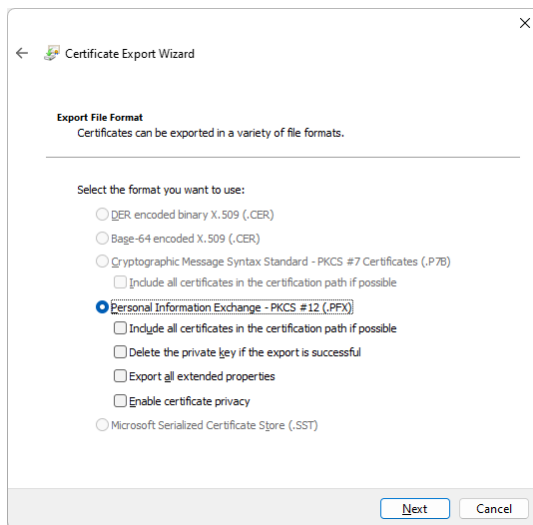
(page 92)

Printer Certificate File

Cautions:

- Operate IPsec (IP Security) on Windows by following the instructions of the network administrator for the location where the printer is installed.
- Manage the "Printer Certificate File" according to the instructions of the network administrator.
- There is an expiration date for the "Printer Certificate". IPsec communication may fail or may not be encrypted successfully if an expired certificate is used.

- 1 Obtain the printer certificate from the certification authority, and install it on the PC's [Certificates (Local Computer)]
- Obtain the printer certificate as an "exportable key".
- 2 Start [Certificates (Local Computer)] under the MMC (Management Console)
- 3 Open the Personal Store to export the printer certificate



- The format is "PKCS#12". Make sure that you specify a password. The file is saved with the extension ".pfx".
- After saving, this file will be downloaded as the "Printer Certificate File" when setting "Certificate Authentication" using the status monitor.
- ASCII characters that can be used for the password of the printer certificate of the printer are as follows. The maximum length is 255 characters.

	2x	3x	4x	5x	6x	7x
0		0	@	P		p
1		1	A	Q	a	q
2		2	B	R	b	r
3		3	C	S	c	s
4		4	D	T	d	t
5		5	E	U	e	u
6		6	F	V	f	v
7		7	G	W	g	w
8	(	8	H	X	h	x
9	)	9	I	Y	i	y
A			J	Z	j	z
B			K		k	
C			L		l	
D	-		M		m	
E	.		N		n	
F			O	_	o	

Memo:

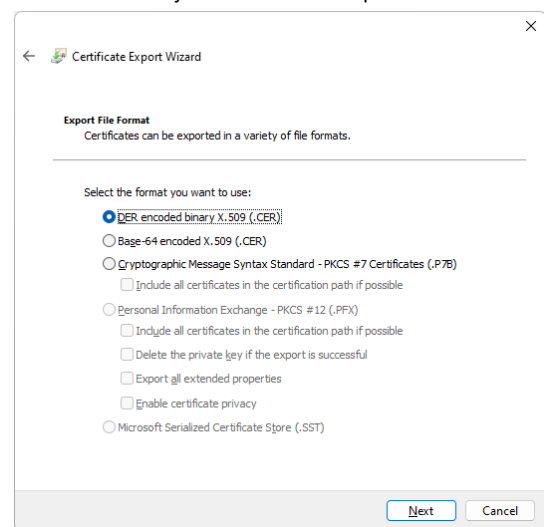
- For procedures to set "Certificate Authentication" on the printer, refer to the section of the Status Monitor Settings.
["File settings required for certificate authentication" \(page 92\)](#)

Certification Authority Certificate File

Cautions:

- Operate IPsec (IP Security) on Windows by following the instructions of the network administrator for the location where the printer is installed.
- Manage the "Certification Authority Certificate File" according to the instructions of the network administrator.
- There is an expiration date for the "Certification Authority Certificate". IPsec communication may fail or may not be encrypted successfully if an expired certificate is used.

- 1 Start [Certificates (Local Computer)] under the MMC (Management Console)
- 2 Open the Certification Authorities Store, and export the same "Certification Authority Certificate" as the printer certificate



- The format is "DER encoded binary X509". The file is saved with the extension ".cer".
- After saving, this file will be downloaded as the "Certification Authority Certificate File" when setting "Certificate Authentication" using the status monitor.

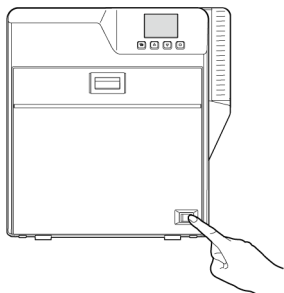
Memo:

- For procedures to set "Certificate Authentication" on the printer, refer to the section of the Status Monitor Settings.
["File settings required for certificate authentication" \(page 92\)](#)

Turn on the Power

1 Turn the power switch to the "On" position

- **I** represents "On" and **O** represents "Off".



Cautions:

- After turning off the power, wait at least 10 seconds before turning it on again.

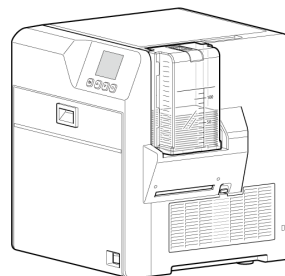
Printing a Card

Cautions:

- If you see an [Initializing...] or [Preheating...] message on the Operation panel of the printer, this means the printer is not ready yet. Printing cannot be performed until a [Ready] message appears.
- Printing the card on the side with the magnetic stripe may cause printing errors or damage to the card's functions. If you want to do so, please consult our authorized dealers in advance.
- For printing using application software prepared by the user, refer to the instruction manual of the corresponding software.

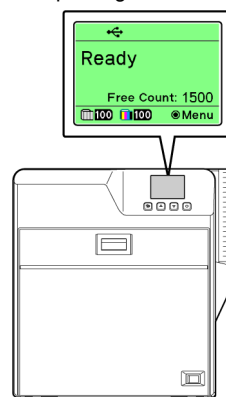
1 Turn on the power

2 Check to ensure that cards are inserted into the card hopper



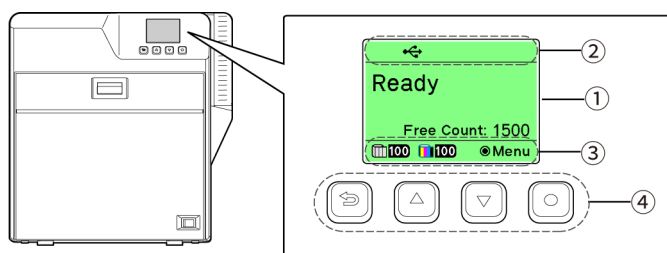
3 Open the software's print settings screen, and select this printer

4 After ensuring that a [Ready] message appears on the Operation panel of the printer, start printing









Operation Panel

Names and Functions of Parts



- ① Operation panel
 - Displays the settings, operating status, and error messages.
- ② Icon display area
 - Displays status icons.
- ③ Remaining ink/film amount and operation guide display area
 - Displays the remaining amount of ink and film.
 - Displays the functions of the currently active operation buttons.
- ④ Operation buttons
 - For selecting a button function displayed on the operation panel.

Operation Buttons and Operation Guide Display

-  : Selects the function indicated by the operation guides below.
-  Exit: Displays the next higher level in the menu hierarchy.
-  Cancel: Cancels the selection.
-  : Moves upward in the menu.
-  : Moves downward in the menu.
-  : Selects the function indicated by the operation guides below.
- Menu: Enters the settings menu.
- Enter: Enters the selected item.
- Select: Selects the displayed item.
- Next: Moves to the next item.
- Set: Confirms the setting.
- Exec.: Executes the displayed function.
- Init.: Initializes the printer.

Icon Displays on the Operation Panel

■ USB connection



■ Network connection



■ Security Lock status

- Locked



- Unlocked
No icon displayed.

■ Remaining ink display

- Displayed in 10% increments.



■ Remaining film display

- Displayed in 10% increments.



■ Laminator connection

- Connected



- Not connected
No icon displayed.

■ Cleaning

- Cleaning is required.



["Please clean the card feed rollers and heating rollers."](#)

(page 103)

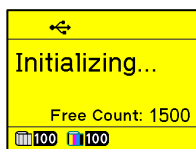
Operation Panel Operation Display

● Background color

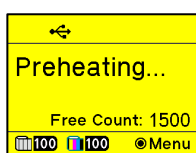
Changes according to the printer's operating status.

- Ready
Bright green
- During operation
Yellow
- During error
Red

■ Initializing



■ Preheating



■ Ready



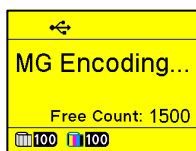
■ Loading card



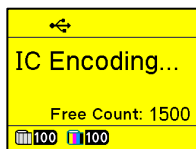
■ Feeding card



■ Magnetic encoding in progress



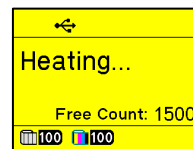
■ IC encoding



■ Printing



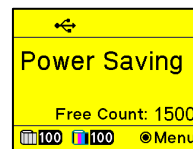
■ Adjusting heating roller to the preset temperature



■ Retransferring



■ Power Saving mode









Menu Overview

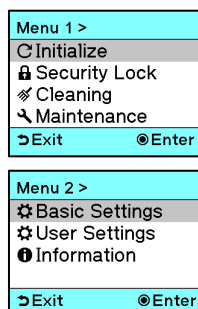
- Settings can be viewed on the printer's operation panel.
- Settings can be changed on the status monitor of the computer.

["Status Monitor Settings" \(page 81\)](#)

Basic Menu Operations

- 1 Press the  Menu button on the operation panel to enter [Menu]
- 2 Select the item you want to set or check using the   buttons, and press  Enter to access it
- 3 Press  Exit to return to the previous menu
- 4 While in [Menu], press  Exit to exit [Menu] display

Menu items



Initialize

- Initializes (advances the starting position of) the ink ribbon and retransfer film.

Settings

- Initialize no Skip
Initializing printer without feeding the image.
- Skip 1panel
Initializing printer after feeding by one image.
- Skip 2panel
Initializing printer after feeding by two images.

Initializing printer after feeding by two images.

["Initializing from the Menu" \(page 47\)](#)

Memo:

- While the ink ribbon cassette and retransfer film cassette are removed from the printer, dust may accumulate on the ink ribbon and retransfer film. Depending on the size of the dust particles, this can cause issues such as color dropout. To avoid these problems, it is recommended that you forward by one or two images after installing the cassette.

- Power Restore

When in [Ready] state, the printer enters Power Save mode after a certain period of time to conserve energy.

This mode can be temporarily canceled from the operation panel.

["Deactivating the Power Save Mode" \(page 51\)](#)

Security Lock

- The Security Lock function can be applied to the printer door and card hopper to prevent opening of the printer door as well as removal of cards.

Settings

- Security Lock

Activates the Security Lock.

["Activating the Security Lock" \(page 49\)](#)

- Security Unlock

Deactivates the Security Lock.

["Deactivating the Security Lock" \(page 50\)](#)

- Security-Key

Save Security-Key

Registers the Security-Key number.

["Registration of Security-Key Number" \(page 49\)](#)

Del. Security-Key

Deletes the Security-Key number.

["Deleting the Security-Key Number" \(page 50\)](#)

Cleaning

- Cleans the rollers and the magnetic encoder (optional).

Settings

- Rollers

Select this value when cleaning the card feed roller or heating roller.

["Card Feed Roller / Heating Roller" \(page 103\)](#)

- Magnetic Encoder

Select this value when cleaning the magnetic head of the magnetic encoder.

["Magnetic Head" \(page 105\)](#)

Maintenance

- Performs various types of printer maintenance.

Settings

- Counter Reset

This is used to reset the free counter and error counter.

["Counter Reset" \(page 54\)](#)

- Test Print

Prints the printer's built-in test pattern.

["Test Print" \(page 51\)](#)

- Setting Print

Prints the printer's various settings.

["Printing the Configuration Values" \(page 52\)](#)

- Transport Mode

When transporting or moving the printer, ensure that the heating roller is fastened to a safe position.

["Transport Mode Setting" \(page 57\)](#)

- Download

Updates the firmware.

["Firmware Update" \(page 52\)](#)

- Printer Reboot

Reboots the printer.

["Rebooting the printer" \(page 53\)](#)

Basic Settings

- Configures various printer settings.

■ Settings

- Counter

This is used for setting the type of counter displayed on the operation panel.

["Counter Setting" \(page 54\)](#)

- Language

Selects the display language for the operation panel.

["Language Setting" \(page 55\)](#)

- Back Light

Set the brightness of the operation panel.

["Backlight Setting" \(page 55\)](#)

- Buzzer

For setting whether to sound the buzzer when an error occurs or when settings are changed.

["Buzzer Setting" \(page 56\)](#)

- USB Unit No.

For setting the printer's unit number according to the USB environment.

["Unit Number Setting" \(page 56\)](#)

- Adjust IC Card

Adjusts the encoding position of a contactless IC card.

["Adjusting the Position of the Contactless IC Card" \(page 57\)](#)

User Settings

- You can check the printer settings from the operation panel.
- To change the settings, use the status monitor on the computer.

■ Information displayed

- Print Quality:

Displays the print quality setting.

- Print Settings

Displays the printing settings.

- Media Settings

Displays the settings of the printing media.

- Configuration

Displays the operation panel settings and buzzer setting.

- Interface

Displays the interface setting.

- Option

Displays the settings of installed optional devices.

- Laminator

Displays the settings of the connected laminator.

Information

- Check a variety of information about the printer.

■ Information displayed

- Ink Property

Displays information about the ink ribbon.

- Film Property

Displays information about the retransfer film.

- Card Property

Displays card (print media) properties.

- Counter

Displays the values of counters.

- Laminator Counter

Displays the counter of the connected laminator.

- Clock

Displays the current date and time.

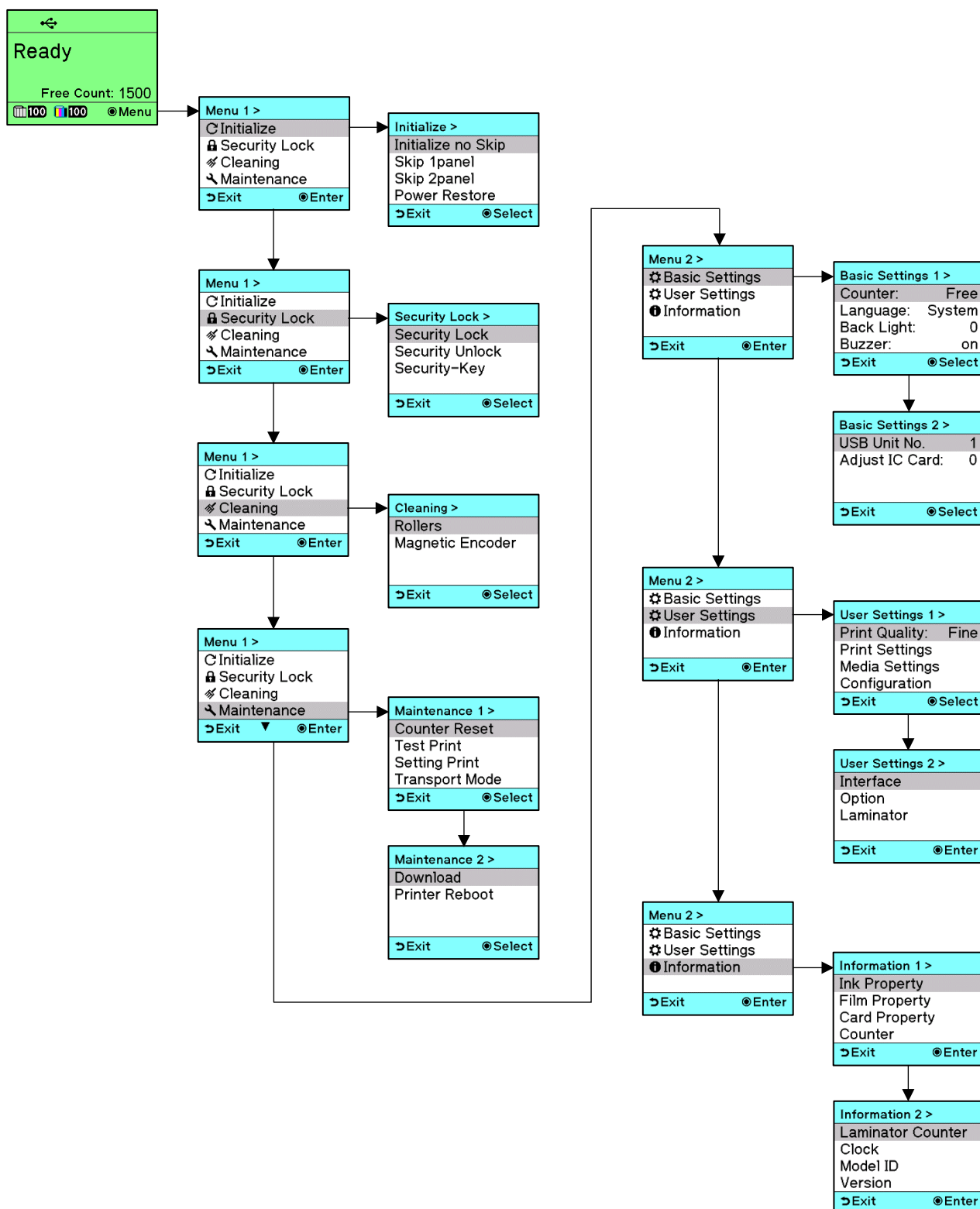
- Model ID

Displays the model name and serial number.

- Version

Displays the firmware version.

Menu Tree



Factory Settings

Basic Settings

Item	Setting
Counter:	Total
Language:	System
Back Light:	0
Buzzer:	on
USB Unit No.	1
Adjust IC Card:	0

User Settings

Item			Setting
Print Quality:			Fine
Print Settings	Print	YMC Level:	0
		Black Level:	0
		UV Level:	+3
		PO Level:	0
		Black Mode:	STD
	Retransfer	Temperature:	+1
		Speed (Front):	+2
		Speed (F-UV):	+2
		Speed (F-OC):	off
		Speed (Back):	+2
		Speed (B-UV):	+2
		Speed (B-OC):	off
		Backside Cool:	off
		Peel Mode:	off
		Standby Mode:	Front
	Bend Remedy	Temperature:	off
		Speed:	+2
	Heat Roller	Power Save:	off
		Heater Save:	on
Media Settings	Film Property	Type:	STD 1000
	Card Settings	Thickness:	STD
		Material:	PVC
		Eject Speed:	0

Item			Setting
Configuration	Operation Panel	Counter:	Total
		Language:	System
		Back Light:	0
	LCD Layout	Main Layout:	All
		Color (Ready):	G1
		Color (Busy):	Y2
		Color (Error):	R1
		Menu Layout:	Both
		Color (Menu 1):	C1
		Color (Menu 2):	B1
		Color (Menu 3):	P1
		Color (Startup):	U1
		Icon Layout:	Auto
	Buzzer	Buzzer:	on
Interface	Printer	Host I/F:	LAN
		USB Unit No.	1
	Printer Name	Printer Name:	PRINTER01
	Session Timeout	LAN Timeout:	off
	MAC Address	MAC Address:	-
	IPv4	DHCP:	on
		IPv4 Address	192.168.0.141
		Subnet Mask	255.255.255.0
		Default Gateway	192.168.0.1
	IPv6	Address Auto:	on
		IPv6 Address	-
		Subnet Prefix:	64
		Default Gateway	-
	IPSec	IPSec:	off
		Type:	off
Option	Magnetic Encoder	ISO:	Hi-Co
		JIS:	Lo-Co
		Retry Count:	1
	Contactless IC Enc.	Adjust IC Card:	0

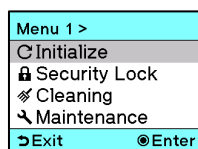
Setting Using the Operation Panel

Initialization

Initializing from the Menu

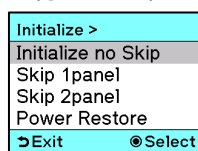
- Whenever the power is turned on, cue (initialization) is performed automatically on the ink ribbon and retransfer film.
- You can also perform initialization manually using the operation button on the operation panel.

- 1 Press **Menu**.
 - Enters the [Menu].
- 2 Select [Initialize] and then press **Enter**.

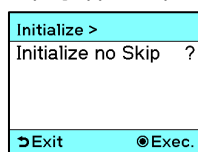


■ Initializing printer without feeding the image

- ① Select [Initialize no Skip] and then press **Select**.



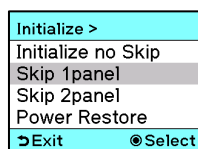
- ② When [Initialize no Skip ?] appears, press **Exec**.



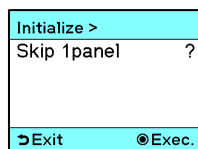
- An [Initializing...] message appears, and initialization of the printer starts.

■ Initializing printer after feeding by one image

- ① Press **▽** or **△**, select [Skip 1panel], and then press **Select**.



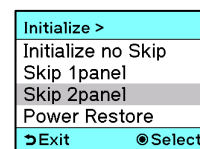
- ② When [Skip 1panel ?] appears, press **Exec**.



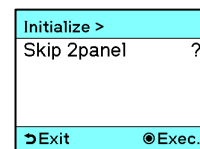
- An [Initializing...] message appears, and the printer is initialized after feeding the ink ribbon and retransfer film by one image.

■ Initializing printer after feeding by two images

- ① Press **▽** or **△**, select [Skip 2panel], and then press **Select**.



- ② When [Skip 2panel ?] appears, press **Exec**.

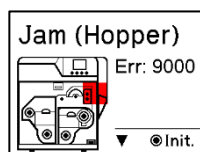


- An [Initializing...] message appears, and the printer is initialized after feeding the ink ribbon and retransfer film by two images.

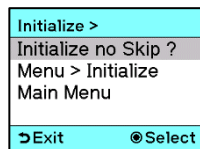
Initializing from the Error Display

- If the error message "Init." appears, you can enter the initialization screen and initialize from there.


1 Press .

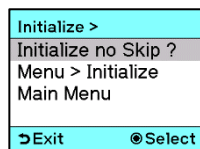


- Enters the [Initialize].






Initializing printer without feeding the image

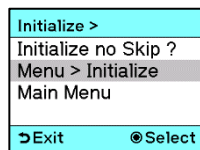
- 1 Select [Initialize no Skip ?] and then press .






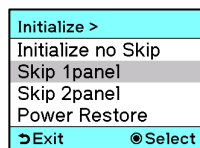
- An [Initializing...] message appears, and initialization of the printer starts.


Initializing printer after feeding by one image

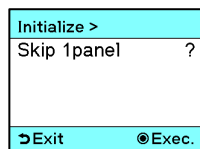
- 1 Press  or , select [Menu>Initialize], and then press .



- 2 Press  or , select [Skip 1panel], and then press .






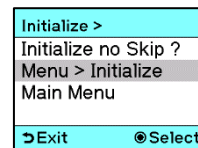
- 3 When [Skip 1panel ?] appears, press .






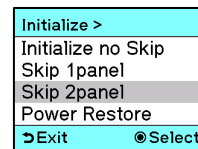
- An [Initializing...] message appears, and the printer is initialized after feeding the ink ribbon and retransfer film by one image.


Initializing printer after feeding by two images

- 1 Press  or , select [Menu>Initialize], and then press .



- 2 Press  or , select [Skip 2panel], and then press .



- 3 When [Skip 2panel ?] appears, press .



- An [Initializing...] message appears, and the printer is initialized after feeding the ink ribbon and retransfer film by two images.

Memo:

- While the ink ribbon cassette and retransfer film cassette are removed from the printer, dust may accumulate on the ink ribbon and retransfer film. Depending on the size of the dust particles, this can cause issues such as color dropout. To avoid printing errors, it is recommended that you forward by one or two images after installing the ink ribbon cassette or retransfer film cassette.

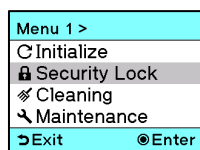
Security Lock

- The Security Lock can be activated to prevent opening of the printer door and removal of cards from the card hopper.
- The Security Lock can be activated or deactivated using the status monitor on the computer.
- ["Status monitor \[Security Lock\] Tab" \(page 93\)](#)
- When the Security-Key number is registered to the printer, you can activate or deactivate the Security Lock by entering the Security-Key number on the printer's operation panel.
- If you forget the Security-Key number, please consult our authorized dealer or service engineer.

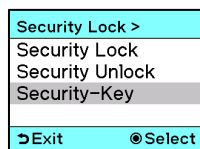
Registration of Security-Key Number

- To change the Security-Key number, you have to delete it and register a new number again.

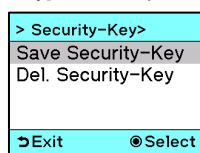
- 1 Press Menu
- Enters the [Menu].
- 2 Press or , select [Security Lock], and then press Enter



- 3 Press or , select [Security-Key], and then press Select

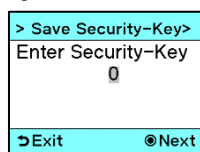


- 4 Select [Save Security-Key] and then press Select

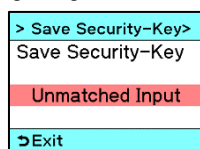


- 5 When [Enter Security-Key] appears, press or , enter the Security-Key number

- Press Next to move to the next digit.
- Pressing Exit will stop input at that digit.
- You can enter up to 8 digits.



- 6 After entering the number, press Exit
- An [Again to confirm key] message appears.
- 7 Press or , re-enter the number you just entered, and then press Exit
- If the re-entered number matches the one entered under [Enter Security-Key], display returns to [Save Security-Key] and the security number is registered.
- If the number does not match that entered under [Enter Security-Key], [Unmatched Input] is displayed. Press Exit and start registration from the beginning.



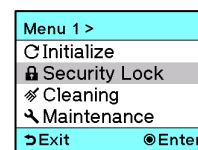
Cautions:

- If the Security-Key number has already been registered, [Stored Security-Key] will be displayed and you will not be able to change the Security-Key number. Please delete the number before registering a new one.

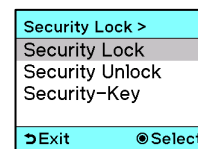
["Deleting the Security-Key Number" \(page 50\)](#)

Activating the Security Lock

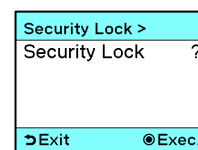
- 1 Press Menu
- Enters the [Menu].
- 2 Press or , select [Security Lock], and then press Enter



- 3 Select [Security Lock] and then press Select



- 4 When [Security Lock ?] appears, press Exec.



- The Security Lock is activated.

Cautions:

- If you have not registered the Security-Key number, [No Security-Key] appears and you cannot activate the Security Lock. Please first register a number.

["Registration of Security-Key Number" \(page 49\)](#)

Deactivating the Security Lock

- 1 Press Menu
- Enters the [Menu].
- 2 Press or , select [Security Lock], and then press Enter

Menu 1 >	
	Initialize
	Security Lock
	Cleaning
	Maintenance
	Exit

- 3 Press or , select [Security Unlock], and then press Select

Security Lock >	
Security Lock	
Security Unlock	
Security-Key	
	Exit

- 4 When [Security Unlock ?] appears, press Exec.

Security Lock >	
Security Unlock ?	
	Exit

- 5 When [Enter Security-Key] appears, press or , enter the registered number, and then press Exit
- Press Next to move to the next digit.
- Pressing Exit will stop input at that digit.

> Security Unlock>	
Enter Security-Key	
0	
	Exit

- If the number entered matches the one registered, the Security Lock is deactivated.
- Otherwise, [Invalid Input] appears; in that case, press Exit and re-enter the number.

> Security Unlock>	
Security Unlock	
Invalid Input	
	Exit

Cautions:

- If you have not registered the Security-Key number, [No Security-Key] appears and you cannot deactivate the Security Lock. To deactivate the Security Lock, register the Security-Key number.

["Registration of Security-Key Number" \(page 49\)](#)

Deleting the Security-Key Number

- You can delete a registered Security-Key number as follows.
- To change the Security-Key number, you have to delete it and register a new number again.

- 1 Press Menu
- Enters the [Menu].
- 2 Press or , select [Security Lock], and then press Enter

Menu 1 >	
	Initialize
	Security Lock
	Cleaning
	Maintenance
	Exit

- 3 Press or , select [Security-Key], and then press Select

Security Lock >	
Security Lock	
Security Unlock	
Security-Key	
	Exit

- 4 Press or , select [Del. Security-Key], and then press Select

> Security-Key>	
Save Security-Key	
Del. Security-Key	
	Exit

- 5 When [Enter Security-Key] appears, press or , enter the registered number, and then press Exit
- Press Next to move to the next digit.
- Pressing Exit will stop input at that digit.

> Del. Security-Key>	
Enter Security-Key	
0	
	Exit

- If the number matches the registered number, display returns to [Del. Security-Key] and the Security-Key number is deleted.
- Otherwise, [Invalid Input] appears; in that case, press Exit and re-enter the number.

> Del. Security-Key>	
Del. Security-Key	
Invalid Input	
	Exit


Other Settings

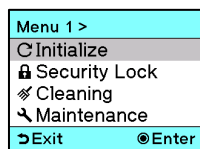
Deactivating the Power Save Mode

- When in [Ready] state, the printer enters Power Save mode after a certain period of time to conserve energy.
- This mode can be temporarily canceled from the operation panel.

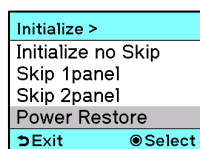
1 Press .


- Enters the [Menu].

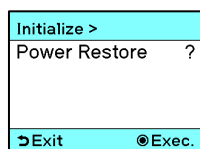
2 Select [Initialize] and then press .



3 Press  or , select [Power Restore], and then press .



4 When [Power Restore ?] appears, press .



- The Power Save mode is temporarily deactivated.

Memo:

- The Power Save mode can also be temporarily deactivated by initializing the printer.

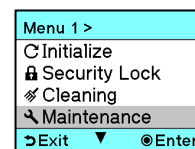
Test Print

- Prints the printer's built-in test pattern.
- The printer unit can be made to run alone when a system error occurs by separating the computer from the printer.

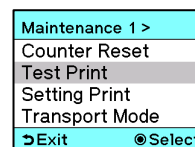
1 Press .

- Enters the [Menu].

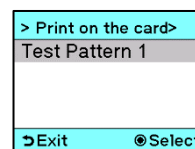
2 Press  or , select [Maintenance], and then press .





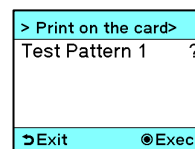
3 Press  or , select [Test Print], and then press .




- A [Test Pattern 1] message appears.



4 When Pressing , a [Test Pattern 1 ?] message appears, press .



- Test print starts.


5 When printing is finished, press  to exit the [Menu]

Printing the Configuration Values

- Prints the printer's various settings.

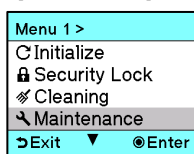
Types of configuration values printed

- Information
Prints Information settings.
- Print/Media Sets
Prints the printer settings.
- Configuration Sets
Prints Configuration settings.
- Interface Sets
Prints the interface and network settings.
- Option/Laminator
Prints the settings of the optional devices and the laminator.
- All Sets (5pages)
Prints all settings.

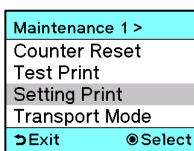
1 Press  Menu

- Enters the [Menu].

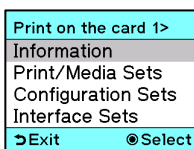
2 Press  or , select [Maintenance], and then press  Enter





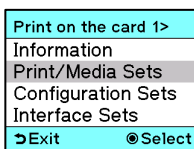
3 Press  or , select [Setting Print], and then press  Select




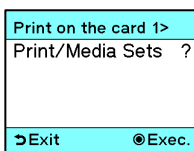
- The screen for selecting setting values appears.




4 Press  or  to select the desired configuration values for printing, and then press  Select



5 A question mark [?] appears on the right side of the confirmation screen for the selected setting value, so press  Exec.



- Printing of set values begins.

6 When printing is finished, press  Exit to exit the [Menu]

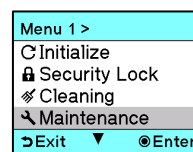
Firmware Update

- Updates the printer's firmware.

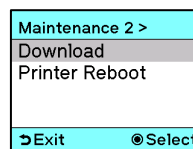
1 Press  Menu

- Enters the [Menu].

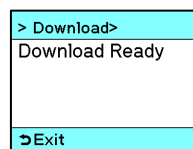
2 Press  or , select [Maintenance], and then press  Enter



3 Press  or , select [Download], and then press  Select

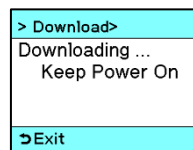


- A [Download Ready] message appears, indicating that the printer is ready to download data from the computer.





4 Downloading of data from the computer begins

- The message [Downloading...] [Keep Power On] appears.



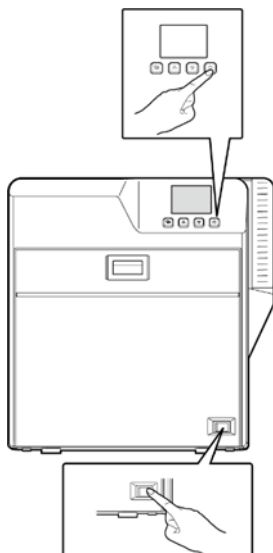
Cautions:

- Do not turn off the power during data download from the computer. Doing so may damage the printer firmware and cause malfunction.
- A [Download Ready] message appears when data download from the computer is complete.
- When [Download Ready] appears, press  Exit
- When [Printer Reboot ?] appears, press  Exec.
- The printer reboots and firmware update is completed.

■ If download fails and printer cannot be started up

- If download of the printer firmware fails, the printer may not be able to start up when it is rebooted. When this occurs, download the firmware again according to the following procedure.

- ① Turn on the power while holding down the rightmost operation button
- A [DL Mode 2] message appears, indicating that the printer is ready to download data from the computer.



- ② Start data download from the computer

- A [Wait...] message appears.
- A [DL Mode 2] message appears when data download from the computer is complete.

Cautions:

- Do not turn off the power during data download from the computer.
Doing so may damage the printer firmware and cause malfunction.

- ③ When the [DL Mode 2] message appears, turn off the power

- The firmware is updated after the power is turned on again.
- To turn on the power again, do so after an interval of at least 10 seconds.

Cautions:

- If the printer does not start up after performing this operation, please consult our authorized dealer or service engineer.

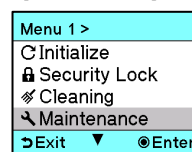
Rebooting the Printer

- Reboots the printer.

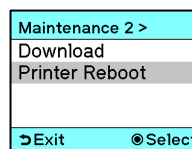
- 1 Press Menu

- Enters the [Menu].

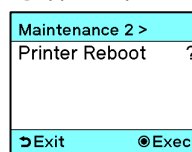
- 2 Press or , select [Maintenance], and then press Enter



- 3 Press or , select [Printer Reboot], and then press Select



- 4 When [Printer Reboot ?] appears, press Exec.



- The printer reboots.

Counter Setting

- This is used for setting the type of counter displayed on the operation panel.

Counter Types

- Total : Total counter

Displays the total number of cards that are correctly printed.

- Head : Head counter

Displays the total number of printed sides for the same head.

- Free : Free counter

Displays the number of cards that are correctly printed. This number can be reset.

- Clean : Cleaning counter

Displays the number of cards that are correctly printed after the last cleaning.

- Error : Error counter


Displays the number of cards that are not correctly printed. This number can be reset.

1 Press .




- Enters the [Menu].

2 Press  or , select [Basic Settings], and then press .

Menu 2 >	
⚙ Basic Settings	
⚙ User Settings	
ℹ Information	
➡ Exit	Ⓜ Enter

3 Select [Counter:] and then press .


Basic Settings 1 >	
Counter:	Free
Language:	System
Back Light:	0
Buzzer:	on
➡ Exit	Ⓜ Select

4 The highlighting moves to the counter type, press  or  to select the counter type you want to set, and then press .

Basic Settings 1 >	
Counter:	Free
Language:	System
Back Light:	0
Buzzer:	on
➡ Cancel	Ⓜ Set

- The selected counter type is set.

Basic Settings 1 >	
Counter:	Total
Language:	System
Back Light:	0
Buzzer:	on
➡ Exit	Ⓜ Select

5 Press  to exit the [Menu]

Counter Reset


- This is used to reset the free counter and error counter.

1 Press .


- Enters the [Menu].

2 Press  or , select [Maintenance], and then press .


Menu 1 >	
⌂ Initialize	
🔒 Security Lock	
🧹 Cleaning	
🔧 Maintenance	
➡ Exit	Ⓜ Enter

3 Select [Counter Reset] and then press .

Maintenance 1 >	
Counter Reset	
Test Print	
Setting Print	
Transport Mode	
➡ Exit	Ⓜ Select

- When [Free Counter:] appears, press .


> Counter Reset>	
Free Counter:	1500
➡ Exit	Ⓜ Select

4 The highlighting moves to the counter value, press  to reset it to zero

> Counter Reset>	
Free Counter:	1500
➡ Cancel	Ⓜ Set

- The counter is reset.

> Counter Reset>	
Free Counter:	0
➡ Exit	Ⓜ Select

5 Press  to exit the [Menu]

Language Setting

- Select the language to be displayed on the operation panel.






■ Setting




- System: English
- External: Displays a language loaded from an external source



1 Press Menu

- Enters the [Menu].



2 Press  or , select [Basic Settings], and then press Enter




Menu 2 >	
	Basic Settings
	User Settings
	Information
	Exit
	Enter

3 Press  or , select [Language:], and then press Select



Basic Settings 1 >	
Counter:	Free
Language:	System
Back Light:	0
Buzzer:	on
	Exit
	Select


- The highlighting moves to the setting value.

Basic Settings 1 >	
Counter:	Free
Language:	System
Back Light:	0
Buzzer:	on
	Cancel
	Set

4 Press  or  to select [System] or [External], and then press Set

- The language is set.

Basic Settings 1 >	
Counter:	Free
Language:	External
Back Light:	0
Buzzer:	on
	Exit
	Select

5 Press Exit to exit the [Menu]

Backlight Setting

- Set the brightness of the operation panel.






■ Setting




- -3, -2, -1, 0, +1, +2, +3, +4
Higher values result in brighter backlighting.



1 Press Menu

- Enters the [Menu].



2 Press  or , select [Basic Settings], and then press Enter




Menu 2 >	
	Basic Settings
	User Settings
	Information
	Exit
	Enter

3 Press  or , select [Back Light:], and then press Select



Basic Settings 1 >	
Counter:	Free
Language:	System
Back Light:	0
Buzzer:	on
	Exit
	Select


- The highlighting moves to the setting value.

Basic Settings 1 >	
Counter:	Free
Language:	System
Back Light:	0
Buzzer:	on
	Cancel
	Set

4 Press  or  to select the brightness, and then press Set

- The backlight brightness is set.

Basic Settings 1 >	
Counter:	Free
Language:	System
Back Light:	+4
Buzzer:	on
	Exit
	Select


5 Press Exit to exit the [Menu]

Buzzer Setting

- For setting whether to sound the buzzer when an error occurs or when settings are changed.






■ Settings

- on : Turns on buzzer sound
- off : Turns off buzzer sound



1 Press .

- Enters the [Menu].



2 Press  or , select [Basic Settings], and then press .




Menu 2 >	
 Basic Settings	
 User Settings	
 Information	
 Exit	Enter

3 Press  or , select [Buzzer:], and then press .



Basic Settings 1 >	
Counter:	Free
Language:	System
Back Light:	+4
Buzzer:	on
 Exit	Select


- The highlighting moves to the setting value.

Basic Settings 1 >	
Counter:	Free
Language:	System
Back Light:	+4
Buzzer:	on
 Cancel	Set

4 Press  or  to select [on] or [off], and then press .

- The buzzer is set to on or off.

Basic Settings 1 >	
Counter:	Free
Language:	System
Back Light:	+4
Buzzer:	off
 Exit	Select


5 Press  to exit the [Menu]

Unit Number Setting



- For setting the printer's unit number according to the USB environment.






■ Settings

- No.1 - No.10



1 Press .

- Enters the [Menu].



2 Press  or , select [Basic Settings], and then press .

Menu 2 >	
 Basic Settings	
 User Settings	
 Information	
 Exit	Enter



3 Press  or , select [USB Unit No.], and then press .

Basic Settings 2 >	
USB Unit No.	1
Adjust IC Card:	0
 Exit	Select



- The highlighting moves to the setting value.

Basic Settings 2 >	
USB Unit No.	1
Adjust IC Card:	0
 Cancel	Set

4 Press  or  to select unit number, and then press .

Basic Settings 2 >	
USB Unit No.	10
Adjust IC Card:	0
 Cancel	Set

- The USB unit number is set.

Basic Settings 2 >	
USB Unit No.	10
Adjust IC Card:	0
 Exit	Select

5 Turn off the power

- The changes to the setting will be reflected when you turn on the power again.
- To turn on the power again, do so after an interval of at least 10 seconds.

Adjusting the Position of the Contactless IC Card

- Adjusts the encoding position of the contactless IC card encoder (optional).

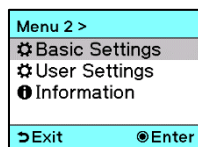
Settings

- 2, -1, 0, +1, +2

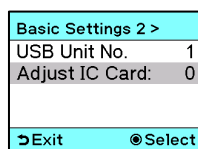
1 Press **Menu**

- Enters the [Menu].

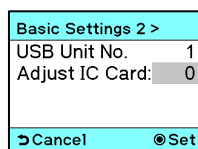
2 Press **▽** or **△**, select [Basic Settings], and then press **Enter**



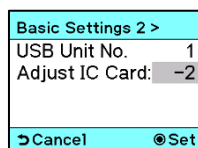
3 Press **▽** or **△**, select [Adjust IC Card:], and then press **Select**



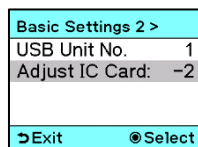
- The highlighting moves to the setting value.



4 Press **▽** or **△**, select the encoding position, and then press **Set**



- The encoding position of the IC card is set.



5 Press **Exit** to exit the [Menu]

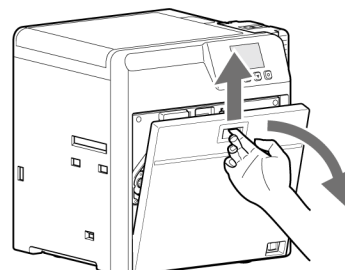
Transport Mode Setting

- When transporting or moving the printer, ensure that the heating roller is fastened to a safe position.

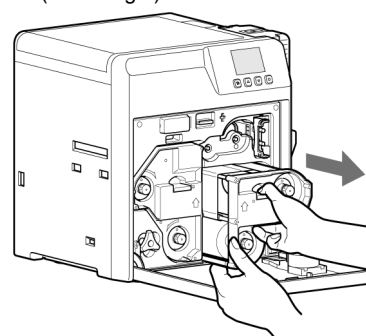
Cautions:

- Make sure that you set to the transport mode when transporting or moving the printer. Failure to do so will cause the printer to malfunction.

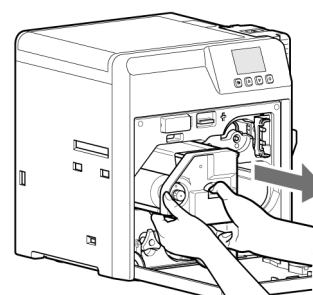
1 Open the printer door



2 Press and hold down the cassette button, and remove the ink ribbon cassette (on the right) to remove the ink ribbon

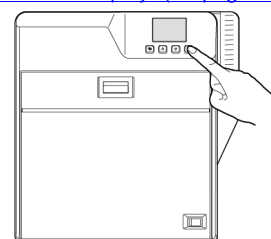


3 Press and hold down the cassette button, and remove the retransfer film cassette (on the left) to remove the retransfer film



4 Close the printer door

5 Press **Init.** → **Select** to initialize the printer
["Initializing from the Error Display" \(page 48\)](#)



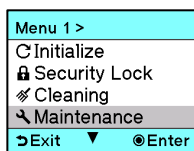
- 6 Check to ensure that [Film Search] is displayed on the operation panel of the printer



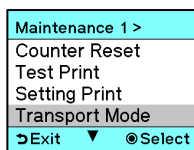
- 7 Press **Menu**

- Enters the [Menu]

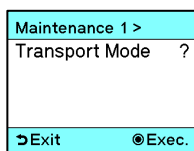
- 8 Press **Down** or **Up**, select [Maintenance], and then press **Enter**



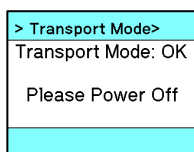
- 9 Press **Down** or **Up**, select [Transport Mode], and then press **Select**



- 10 When [Transport Mode ?] appears, press **Exec**.



- The transport mode is set, and [Transport Mode: OK] [Please Power Off] is displayed.



Cautions:

- If you set the transport mode while the retransfer film is loaded, the message "Film? (Transp.)" appears and an error will occur. Please remove the retransfer film before setting the transport mode.

- 11 Turn off the power, install the cassette, and close the printer door

Cautions:

- While in the transport mode, the retransfer film cassette cannot be installed to the printer with the retransfer film loaded.

■ Canceling the transport mode

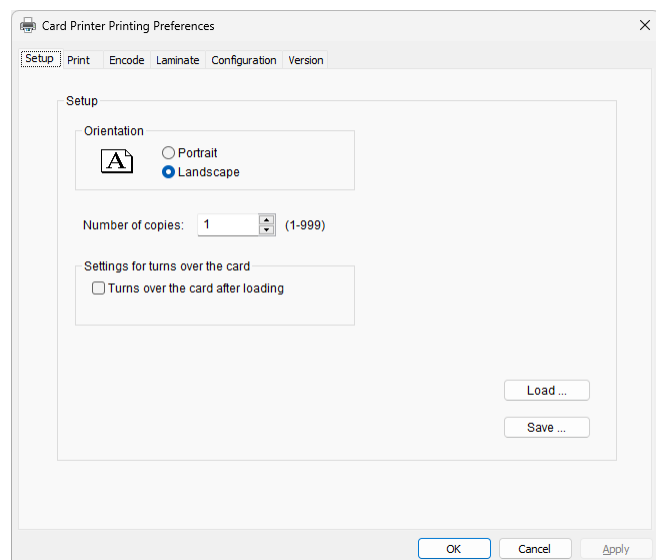
- With the printer door closed, turn on the power to cancel the transport mode.

Printing Settings

Printer Driver Settings

- "[Setup] Tab" (page 59)
- "[Print] Tab" (page 59)
 - "[Printing area] Dialog Box" (page 61)
 - "[Color] Dialog Box" (page 62)
 - "[Look up table] Dialog Box" (page 62)
 - "[Dither] Dialog Box" (page 63)
 - "[UV ink] Dialog Box" (page 64)
 - "[Printer settings] Dialog Box" (page 66)
- "[Encode] Tab" (page 67)
- "[Laminate] Tab" (page 68)
- "[Configuration] Tab" (page 68)
- "[Version] Tab" (page 69)
- Setting Example
 - "Example of Printer Setting" (page 70)
 - "Example of Encode Setting" (page 76)
 - "Card Turn Over Illustration" (page 79)

[Setup] Tab



■ Orientation

Settings for printing orientation.

- Portrait
Print with the shorter edge of the card on top.
- Landscape
Print with the longer edge of the card on top.

■ Number of copies

Number of copies to print. Enter a number up to 999.

■ Settings for turns over the card

Settings for the card turn over operation.

- Turns over the card after loading
Selecting this checkbox turns over the card after it is loaded.

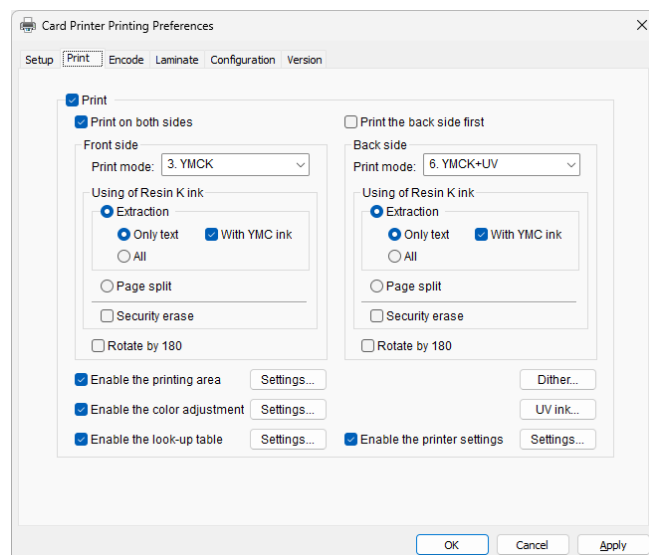
■ [Load...] button

Loads setting information from a specified file.

■ [Save...] button

Saves setting information to a specified file.

[Print] Tab



■ Print

Executes printing.

Checked : Executes printing.

Unchecked : Printing is not executed, but encoding can be performed.

■ Print on both sides

Prints both sides of the card.

Unchecked : Prints one side of the card.

Checked : Prints both sides of the card.

■ Print the back side first

Prints the image on the back side first when printing on both sides of the card.

Unchecked : Starts printing from the image on the front side.

Checked : Starts printing from the image on the back side.

Memo:

- The checkbox is enabled during double-sided printing.

■ Front side / Back side

Front side : Print settings for the front side of the card.

Back side : Print settings for the back side of the card.

■ Print mode

Ink list. Specify the ink to use for printing.

- 1. YMC
Prints using the YMC ink.
- 2. K
Prints using the Resin K ink.
- 3. YMCK
Prints using the YMC ink and Resin K ink.
- 4. YMC+UV
Prints using the YMC ink. Prints data set in the [UV ink] dialog using the UV ink.
- 5. K+UV
Prints using the Resin K ink. Prints data set in the [UV ink] dialog using the UV ink.
- 6. YMCK+UV
Prints using the YMC ink and Resin K ink. Prints data set in the [UV ink] dialog using the UV ink.

Cautions:

- Print error occurs if an ink that is not mounted to the printer is selected.

■ Using of Resin K ink

For specifying the component to print using the Resin K ink.

- Extraction

Prints the black color component on each page using the Resin K ink.

- Only text : Prints only the black color text using the Resin K ink.
- All : Prints all black color components using the Resin K ink.

With YMC : Prints the background of the specified black color ink component using the YMC ink.

- Page split

Prints all components on a specific page using the Resin K ink.

- Security erase

Enables the Resin K security erase feature.

■ Rotate by 180

Prints the page upside down.

■ Enables the printing area

Enables the printing area of the peel-off ink and the area that is not printed by all (YMCKUV) inks. Set a value in the [Printing area] dialog.

- Unchecked : Prints with the printing area disabled.
- Checked : Prints with the preset printing area enabled.

- [Settings...] button

Opens the [Printing area] dialog.

["\[Printing area\] Dialog Box" \(page 61\)](#)

■ Enable the color adjustment

Adjusts the color. Set a value in the [Color] dialog.

- Unchecked : Prints with color adjustment disabled.
- Checked : Prints with the predetermined color adjustment settings enabled.

- [Settings...] button

Opens the [Color] dialog.

["\[Color\] Dialog Box" \(page 62\)](#)

■ Enable the look-up table

Uses the look-up table. Set a value in the [Look up table] dialog.

- Unchecked : Prints with the look-up table disabled.
- Checked : Prints with the preset look-up table enabled.

- [Settings...] button

Opens the [Look up table] dialog.

["\[Look up table\] Dialog Box" \(page 62\)](#)

■ [Dither...] button

For specifying settings related to dithering.

Set a value in the [Dither] dialog.

["\[Dither\] Dialog Box" \(page 63\)](#)

Memo:

- Selecting [2.K], [3.YMCK], [5.K+UV] or [6.YMCK+UV] in [Print mode] enables the [Dither...] button.

■ [UV ink...] button

For specifying settings related to UV ink print data.

Set a value in the [UV ink] dialog.

["\[UV ink\] Dialog Box" \(page 64\)](#)

Memo:

- Selecting [4.YMC+UV], [5.K+UV] or [6.YMCK+UV] in [Print mode] enables the [UV ink...] button.

■ Enable the printer settings

Enables the [Printer settings] dialog settings. Set the item in the [Printer settings] dialog.

Unchecked : Prints with the printer settings disabled.

Checked : Prints with the printer settings enabled.

Memo:

- If the [Printer settings] checkbox in the [Configuration] tab is selected, the [Enable the printer settings] checkbox will also be automatically selected.

["\[Configuration\] Tab" \(page 68\)](#)

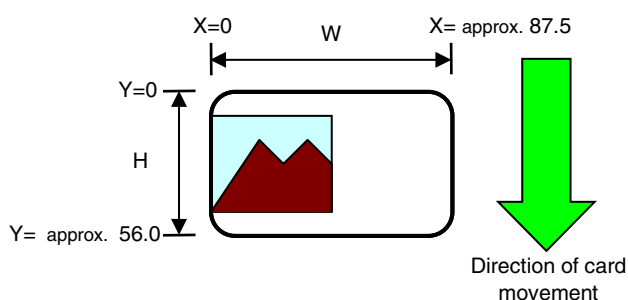
- [Settings...] button

Opens the [Printer settings] dialog.

["\[Printer settings\] Dialog Box" \(page 66\)](#)

[Printing area] Dialog Box

Settings related to the printing area using the peel-off ink or areas not to be printed using all YMCKUV inks.



■ Rectangular region

Printing area information.

■ X

X coordinate that indicates the start of the area. (Unit: mm).

■ Y

Y coordinate that indicates the start of the area. (Unit: mm).

■ W

Width of the printing area. (Unit: mm).

■ H

Height of the printing area. (Unit: mm).

■ Ink

Ink valid for the printing area.

- 1. PO
Area for printing using the peel-off ink.
- 2. YMCK
Area not to be printed using all YMCKUV inks.

■ Side

The side of the card for which the printing area is valid.

- 1. Front
Front side
- 2. Back
Back side

■ [Add] button

Registers the input data. You can enter up to 8 input data.

Cautions:

- Up to three peel-off ink print data are valid per side.
- Please consult our authorized dealers about the settings of peel-off.

■ [Delete] button

Deletes the information selected in the list.

■ [Delete All] button

Deletes all registered information.

Cautions:

- The input value of the textbox may differ from the value of the "Printing area information" portion by an accidental error in calculation.

Memo:

- The printing start position displayed on the application software may not coincide with the X=0, Y=0 position above.
About 1 mm from the edge of the image is not printed on the card.
["The Edge of the Image is not Printed" \(page 121\)](#)

■ PO ink energy

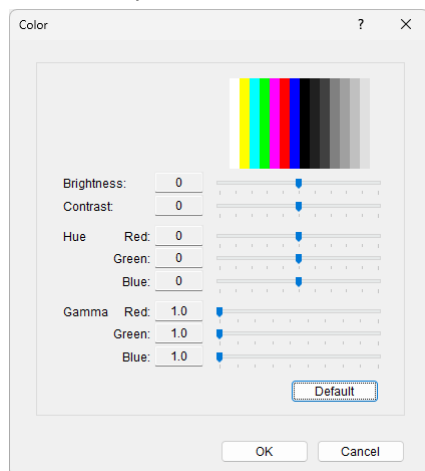
Print density of the peel-off ink.

Cautions:

- Please consult our authorized dealers about the settings of peel-off.

[Color] Dialog Box

Settings related to color adjustment.



■ Brightness

Brightness level.

■ Contrast

Contrast level.

■ Hue

Hue level.

■ Gamma

Gamma level.

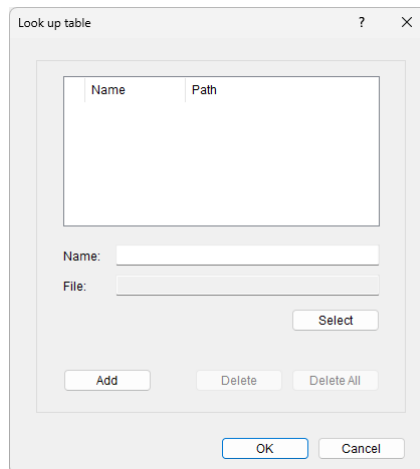
■ [Default] button

Restores the settings to the default values.

[Look up table] Dialog Box

Settings related to the look-up table.

- Select YMCK conversion table or full color conversion.
- By selecting the checkbox at the beginning of a line in the list, the look-up table of that line is enabled.



■ Name

Registered name of the look-up table file. You can enter a name up to 30 characters.

■ File

Look-up table file. Click the [Select] button to select a file.

Memo:

- For YMCK conversion table, select the look-up table file (*.CSV) in CSV format.
- For full color conversion, select the look-up table file (*.LUT) of the Color Conversion Data.

■ [Add] button

Registers the input data. You can enter up to 16 input data.

■ [Delete] button

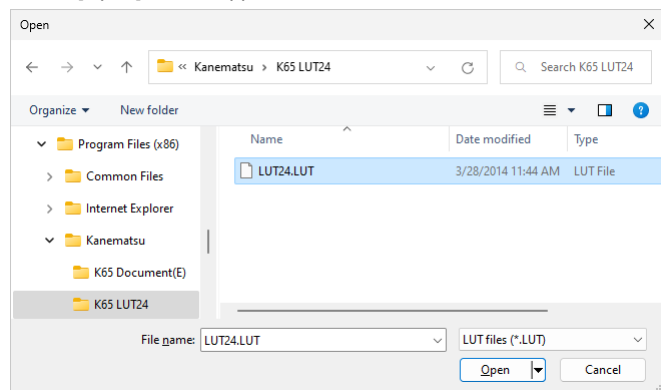
Deletes the information selected in the list.

■ [Delete All] button

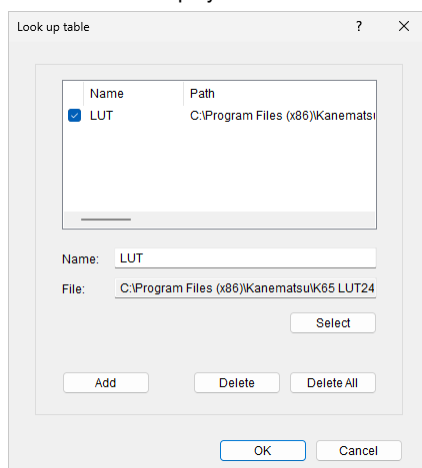
Deletes all registered information.

■ Registering the look-up table file

- ① Click [Select]
- An [Open] screen appears.



- ② Select from [Look in] the folder where the look-up table file is saved
- ③ Select the file format at [Files of type]
 - If [CSV files (*.CSV)] is selected, the look-up table file in CSV format is displayed.
 - If [LUT files (*.LUT)] is selected, the look-up table file of the Color Conversion Data is displayed.
- ④ Select the file
- ⑤ Click [Open]
 - The [Open] screen closes.
 - The file selected in [File] is displayed.
- ⑥ Enter the registered name in [Name]
- ⑦ Click [Add]
 - The registered name is displayed in the list.



- ⑧ Select the checkbox at the beginning of the line in the list
- ⑨ Click [OK]

■ File for YMCK conversion table

- Data format of the file is CSV (Comma Separated Values).
- Delimiter character is comma (ASCII character code: 0x2c) or LF (Line Feed = ASCII character code: 0x0A).
- There is a total of 1024 fields. This is comprised of four planes, each containing 256 fields.
- The planes are arranged in the order of yellow, magenta, cyan, and black colors.
- The value of each field ranges between 0 and 255.

■ Full color conversion data

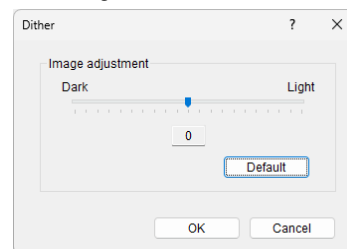
- The full color conversion data file is saved in the folder specified at "Installing the Color Conversion Data".
- It may take longer time to print if full color conversion is used.

Cautions:

- If the look-up table file is incorrect, error will be displayed during printing and the printing will stop.

[Dither] Dialog Box

Settings related to dithering.



Cautions:

- This setting is enabled only when the [Print mode] item inside the [Print] tab is specified as [2.K] or [5.K+UV], and when the [Page split] is selected for [Using of Resin K ink].

■ Image adjustment

Image adjustment value.

- Dark
Darkens the printed image after dithering.
- 0
Default value.
- Light
Brightens the printed image after dithering.

■ [Default] button

Restores the settings to the default values.

[UV ink] Dialog Box

Settings related to the data to be printed using the UV ink. Settings for the [MAC address position] and [Number of panels using the retransfer film] can be specified in this section.

Cautions:

- This setting is enabled only when the [Print mode] item of the [Print] tab is specified as [4.YMC+UV], [5.K+UV] or [6.YMCK+UV].

■ Front side / Back side

Front side : Settings for the front side of the card.

Back side : Settings for the back side of the card.

■ Extraction

Prints the following color component on each page using the UV ink.

["Priority of Printing Data"](#) (page 64)

- Text**
Prints the text of a specified color using the UV ink with maximum density.
White and black colors cannot be selected.
- File**
Prints the image files registered in the [File information] list using the UV ink.

■ Page split

Prints all components on a specific page using the UV ink with 256 gradation. Page split is divided in the order of YMC ink, Resin K ink and UV ink.

["Page Number for the Printed Document and Page Split Settings"](#) (page 65)

■ No printing color

Selected color is not printed using the UV ink.

Memo:

- The background of the UV ink image is specified here. Paint the background of the image with a specific color such as by using a graphic software.
Select the background color carefully, as any color in the image that is the same as the background color will not be printed.
- The color selected here does not influence the colors specified in [Extraction]-[Text]. Even when the same color is selected, the text in that color will be printed.

■ MAC address position

The network (Ethernet) MAC address of the printer is printed at the following specified position using the UV ink.

- Upper Right
Upper right position
- Lower Left
Lower left position
- None
Not printed

["MAC Address Position"](#) (page 65)

■ File information

Settings related to the image file to be printed using the UV ink.

Memo:

- This setting is enabled when [Extraction]-[File] for the front side or back side is specified.

■ Name

Registered name of the image file. You can enter a name up to 30 characters.

■ File

Image file. Click the [Select] button to select a file.

["Windows Bitmap File Format"](#) (page 65)

■ X

X coordinate where printing of the image file starts. (Unit: mm).

When [Orientation] inside the [Setup] tab is set to [Landscape], the value is 0.00 to 87.4. When [Portrait] is set, the value is 0.00 to 55.9. Data outside the printing area is not printed.

■ Y

Y coordinate where printing of the image file starts. (Unit: mm).

When [Orientation] inside the [Setup] tab is set to [Landscape], the value is 0.00 to 55.9. When [Portrait] is set, the value is 0.00 to 87.4. Data outside the printing area is not printed.

■ Side

The side of the card for which the printing area is valid.

- 1. Front
Front side
- 2. Back
Back side

■ [Add] button

Registers the input data. You can enter up to 8 input data.

■ [Delete] button

Deletes the information selected in the list.

■ [Delete All] button

Deletes all registered information.

■ Number of panels using the retransfer film

Number of retransfer film panels to be used.

- Auto
Automatically prints one panel of the retransfer film when the data of other ink types does not overlap with the UV ink printing position.
- 1 panel
Always prints one panel of the retransfer film. When the data of other ink types overlaps with the UV ink printing position, the data of the ink types will be adjusted.
- 2 panels
Always prints two panels of the retransfer film.

["Number of Retransfer Film Panels During Printing"](#) (page 66)

Priority of Printing Data

- An extracted text has a higher priority than an image file, and is always printed on the top.
- The image files are processed in the order of registration. When there is overlap in the printing areas, the older data will be overwritten by the data of the image file that is registered later.

Page Number for the Printed Document and Page Split Settings

Setup of [Page split]				The page number of the printing document					
Resin K ink		UV ink							
Front	Back	Front	Back	1	2	3	4	5	6
-	-	-	-	YMCK	YMCK				
set	-	-	-	YMC	K	YMCK			
-	-	set	-	YMCK	UV	YMCK			
set	-	set	-	YMC	K	UV	YMCK		
-	set	-	set	YMCK	YMC	K	UV		
set	set	-	-	YMC	K	YMC	K		
-	-	set	set	YMCK	UV	YMCK	UV		
set	set	set	-	YMC	K	UV	YMC	K	
set	set	set	set	YMC	K	UV	YMC	K	UV

ink This ink is printed on the front side.

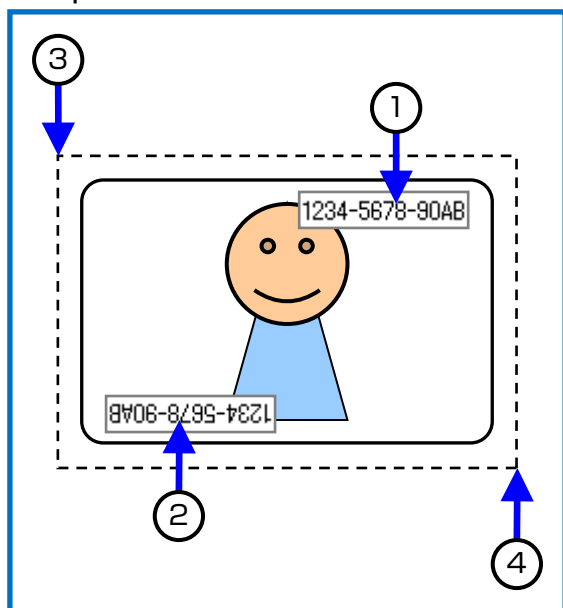
ink This ink is printed on the back side.

- When [Page split] is not set, UV ink data is extracted from the YMC ink data, or the UV ink image file is used.

MAC Address Position

- In the case of UV ink printing, the printer can print the MAC address.
- The printing position of the MAC address can be set separately for the front and back sides using the printer driver. The two positions below can be selected.

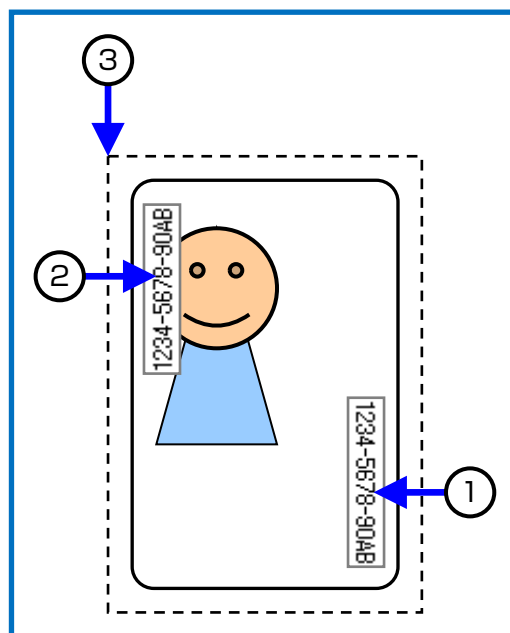
■ Landscape Orientation



- ① MAC address printing position when [Upper Right] is selected
- ② MAC address printing position when [Lower Left] is selected
- ③ (X=0, Y=0)
- ④ (X= approx. 87.5 mm, Y= approx. 56.0 mm),
(X= 2071 pixel, Y= 1327 pixel)

MAC Address Printing Position	Starting X	Starting Y	Width	Height
① Upper Right	64.69 mm	1.52 mm	19.47 mm	2.88 mm
	1528 pixel	36 pixel	460 pixel	68 pixel
② Lower Left	3.56 mm	51.73 mm	19.47 mm	2.88 mm
	84 pixel	1222 pixel	460 pixel	68 pixel

■ Portrait Orientation



- ① MAC address printing position when [Upper Right] is selected
- ② MAC address printing position when [Lower Left] is selected
- ③ (X=0, Y=0)

MAC Address Printing Position	Starting X	Starting Y	Width	Height
① Upper Right	51.82 mm	64.69 mm	2.88 mm	19.47 mm
	1224 pixel	1528 pixel	68 pixel	460 pixel
② Lower Left	1.61 mm	3.56 mm	2.88 mm	19.47 mm
	38 pixel	84 pixel	68 pixel	460 pixel

- The above printing position setting for the MAC address is always effective regardless of the printer unit settings. The above measurements show the relative position from the starting point of the image. As such, the actual printing position on the card may be slightly different from the abovementioned measurements.

Memo:

- The printing start position displayed on the application software may not coincide with the X=0, Y=0 position above. About 1 mm from the edge of the image is not printed on the card. ["The Edge of the Image is not Printed"](#) (page 121)

Windows Bitmap File Format

The following Windows bitmap file formats (*.BMP) are supported.

■ Monochrome / Black & white

- Bit(s): 1
Normally, white color is printed using the UV ink with maximum density.
When white color is selected in [No printing color], black color is printed using the UV ink with maximum density.

■ 2 colors

- Bit(s): 1
Prints using the UV ink with 256 gradation in accordance with the color palette.
If any of the colors in the color palette is specified in [No printing color], other colors that are not specified are printed using the UV ink with maximum density.

■ 16 colors

- Bit(s): 4
Prints using the UV ink with 256 gradation in accordance with the color palette.

■ 256 colors

- Bit(s): 8
Prints using the UV ink with 256 gradation in accordance with the color palette.

■ 32768 colors

- Bit(s): 15
Prints using the UV ink with 256 gradation.
Only the “(MSB) GGGBBBBB-XRRRRRGG(LSB)” format is supported.

■ 24 bits

- Bit(s): 24
Prints using the UV ink with 256 gradation.

■ 32 bits

- Bit(s): 32
Prints using the UV ink with 256 gradation.

Number of Retransfer Film Panels During Printing

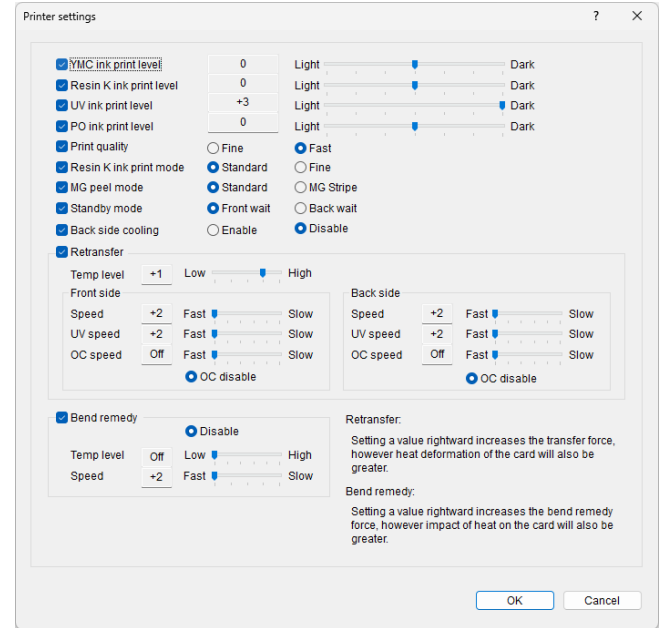
	Printing Data	[Number of panels using the retransfer film] Setting		
		1 panel	Auto	2 panels
Printing data that overlaps with the UV ink data outside the MAC address printing area	None	Print in 1 panel		Print in 2 panels
	YMC ink	Print in 1 panel * The YMC ink is not printed at areas where it overlaps with the UV ink.	Print in 2 panels	
	Resin K ink	Print in 1 panel * The UV ink is not printed at areas where it overlaps with the Resin K ink.	Print in 2 panels	
Printing data inside the MAC address area	None	Print in 1 panel		Print in 2 panels
	YMC ink	Print in 1 panel	Print in 2 panels	
	Resin K ink	* Does not print using the YMCK ink.		
	UV ink	Prints the MAC address only		

- The target printing data is compared in units of pixels to determine whether there is any overlap.
- Priority is given to the “Print in 2 panels” setting.

[Printer settings] Dialog Box

Settings related to the printer.

- Select the checkbox for the setting item to enable, followed by specifying a value. Doing so prints the data using the set values.
- When the setting is not enabled, data is printed using the preset values of the printer unit.



■ YMC ink print level

Print density of the YMC ink.

- Use the [+] values to increase, and [-] values to decrease the density.

■ Resin K ink print level

Print density of the Resin K ink.

- Use the [+] values to increase, and [-] values to decrease the density.

■ UV ink print level

Print density of the UV ink.

- Use the [+] values to increase, and [-] values to decrease the density.

■ PO ink print level

Print density of the peel-off ink.

- Cautions:**
- Please consult our authorized dealers about the settings of peel-off.

■ Print quality

Print quality of the YMCK ink.

Selecting [Fast] speeds up the printing speed.

■ Resin K ink print mode

Print quality of the Resin K ink.

Selecting [Fine] enhances the printing quality, but slows down the printing speed.

■ MG peel mode

When a magnetic encoder unit is installed, selecting [MG Stripe] optimizes the peeling operation of retransfer films for magnetic stripe cards.

■ Standby mode

Specify a position when a laminator is connected.

This is used to set the standby position of the card until the laminator reaches its Ready state during double-sided printing. [Front wait] is selected by default.

■ Back side cooling

This setting is only valid during double-sided printing.

Setting this item may help to reduce card bend during double-sided printing. However, the printing time may also be affected.

Retransfer

Settings related to retransfer.

Setting a value rightward increases the transfer force. However, the stronger heat also increases the deformation of the card.

Temperature

Temperature of the retransfer heating roller.

- Use the [+] values to increase, and [-] values to decrease the temperature.

Speed

Retransfer speed.

- Use the [+] values to increase, and [-] values to decrease the speed.

UV speed

Setting for printing the retransfer film in two panels when UV ink is used.

It is used to set the speed of the retransfer heating roller during retransfer of the UV ink.

This setting helps to increase the retransfer speed without affecting the quality of the UV print.

- Use the [+] values to increase, and [-] values to decrease the speed.

OC speed

Settings related to overcoat (OC). A second retransfer is performed using an unused panel after retransfer to reinforce the print surface of the card.

When performing a second retransfer, set the speed of the retransfer heating roller.

To not applying an overcoat, select [OC disable].

- Use the [+] values to increase, and [-] values to decrease the speed.

Bend remedy

Settings related to bend remedy.

Setting a value rightward increases the bend remedy force, however impact of heat on the card will also be greater.

To disable bend remedy, select the [Disable] button.

Temperature

Temperature of the bend remedy heating roller.

- Use the [+] values to increase, and [-] values to decrease the temperature.

Speed

Bend remedy speed.

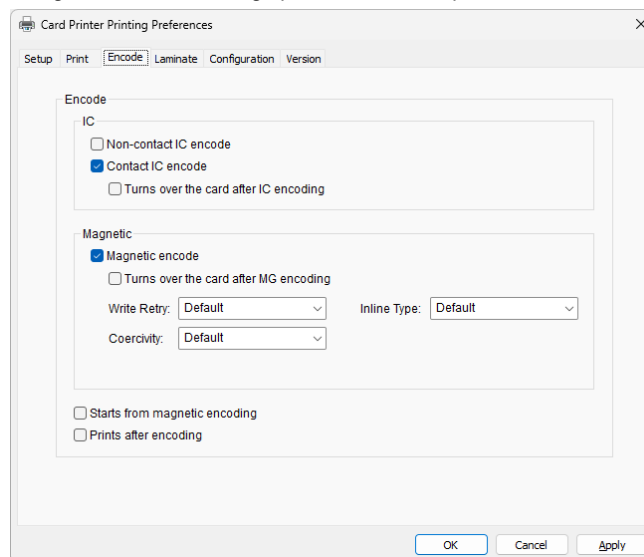
- Use the [+] values to increase, and [-] values to decrease the speed.

Cautions:

- The optimal retransfer and bend remedy settings vary according to the card type as well as environment in which the printer is used. Adjust the setting according to the actual environment.
- If the retransfer or bend remedy settings are different from the preset temperature of the printer, it may take a while before printing starts.
- The retransfer temperature is the same for both the front side and back side.
- Bend remedy is effective when printing on only one side. Setting bend remedy to a high temperature during double-sided printing may cause the card to deform significantly.
As such, select the [Disable] button during double-sided printing.
- When bend remedy is disabled using the [Disable] button, the speed is automatically set to the maximum value of [+2].
- The stronger the bend remedy force, the less glossy the surface of the remedy side will be.

[Encode] Tab

Settings related to encoding operations for the optional encoder.

**IC****Non-contact IC encode**

Allows writing of data to a non-contact IC.

Contact IC encode

Allows writing of data to a contact IC.

Turns over the card after IC encoding

Turns over the card after writing data to the non-contact/contact IC.

Magnetic**Magnetic encode**

Allows writing of data to the magnetic stripe.

Turns over the card after MG encoding

Turns over the card after writing data to the magnetic stripe.

Write Retry

For setting the maximum number of retries when writing to or reading of the magnetic stripe fails.

- When the [Default] is selected, the retry counter uses the preset value of the printer.

Coercivity

Coercivity of the magnetic stripe card.

- When the [Default] is selected, the coercivity uses the preset value of the printer.

Inline type

Select the methods of inline encoding. This method functions when the [ISO Magnetic encoder] in the [Configuration] tab is effective.

["Inline Encoding" \(日本語 page 95\)](#)

- Default
This method is the current default encoding.
- Type B
The method of Type B encoding.
- Type C
The method of Type C encoding.
- None
ISO Magnetic encoding data does not use the inline encoding.

Starts from magnetic encoding

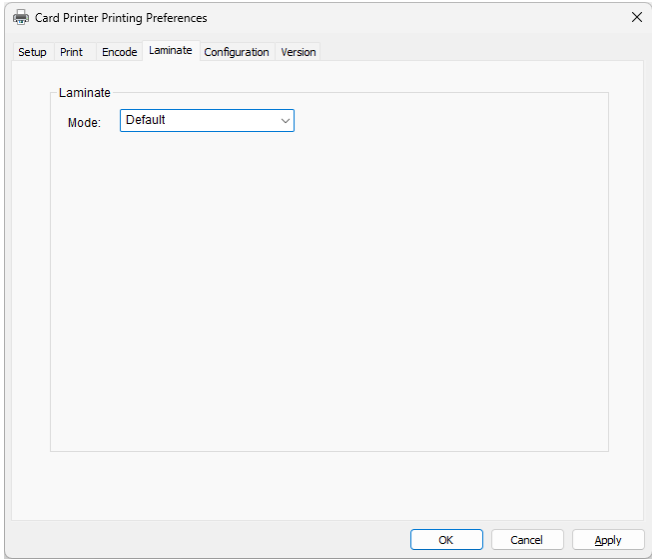
Unchecked : Encodes in the IC → Magnetic sequence.
Checked : Encodes in the Magnetic → IC sequence.

Prints after encoding

Unchecked : Starts printing while encoding is in progress.
Checked : Starts printing after encoding is complete.

[Laminate] Tab

Settings related to laminating operations for an optional laminator.



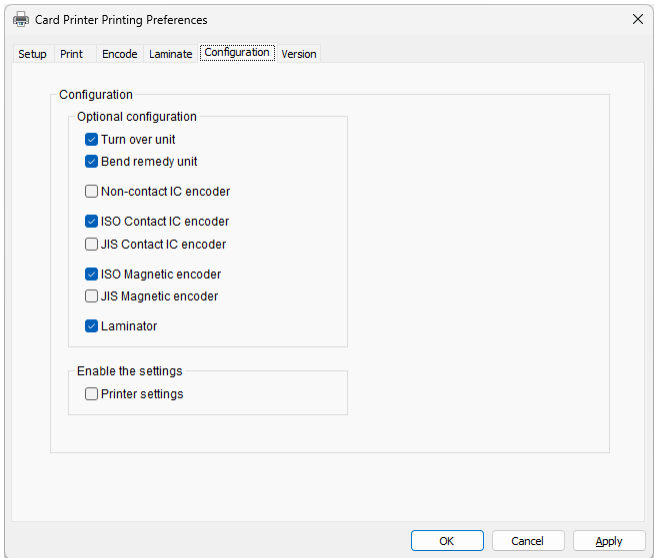
■ Mode

- Default

Operates using the settings defined in “Laminate Mode” of the status monitor.

- Pass Through
Does not laminate the card.
- Laminate
Laminates the card.

[Configuration] Tab



■ Optional configuration

For specifying whether the options are installed.

- Turn over unit
- Bend remedy unit
- Non-contact IC encoder
- ISO Contact IC encoder
- JIS Contact IC encoder
- ISO Magnetic encoder
- JIS Magnetic encoder
- Laminator

■ Enable the settings

Permits or forbids the [Enable the printer settings] functions in the [Print] tab.

■ Printer settings

- Unchecked : Forbids the [Enable the printer settings] functions in the [Print] tab.
- Checked : Permits the [Enable the printer settings] functions in the [Print] tab.

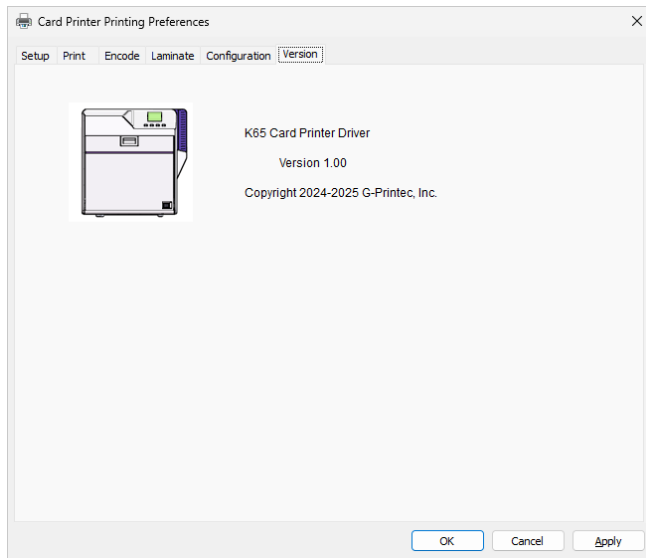
["Enable the printer settings" \(page 60\)](#)

Cautions:

- When a user logs in with administrator authority (Administrators group), the [Configuration] settings can be specified.
If a user logs in without administrator authority, the [Configuration] settings appear in the read-only mode, and they cannot be specified.

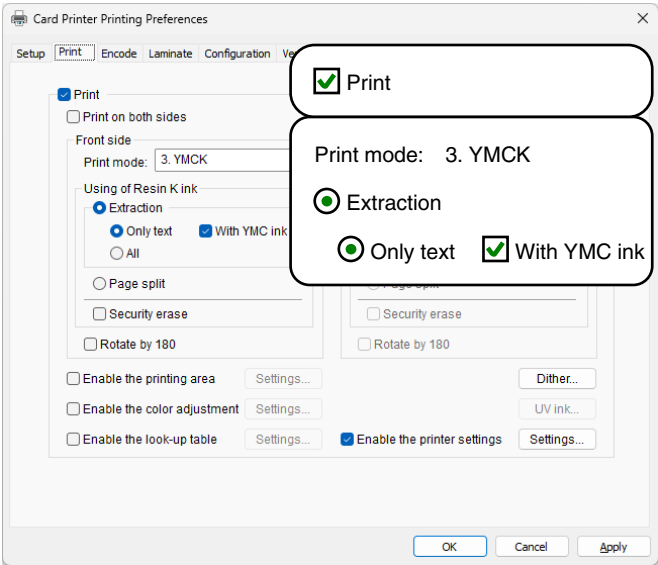
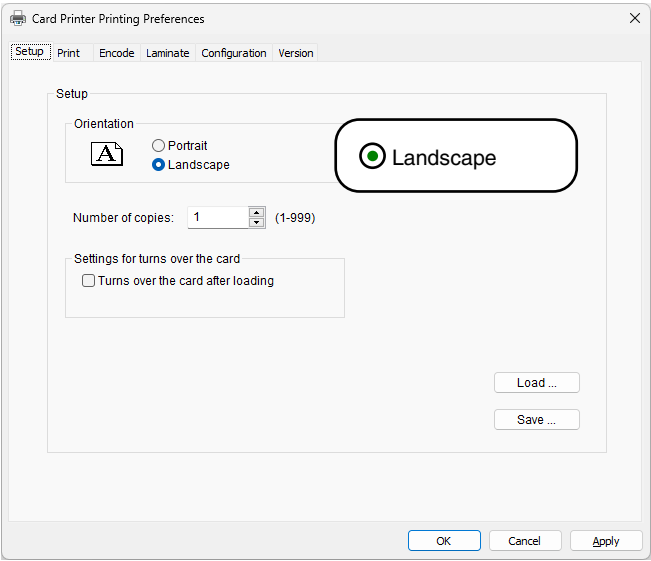
[Version] Tab

Displays the version and copyright information.



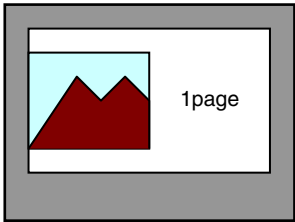
Example of Printer Setting

Single-sided Printing (Landscape)



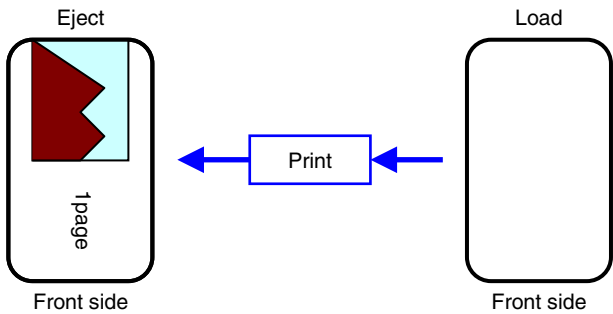
■ Application software

- Graphic : colored
- Text : black

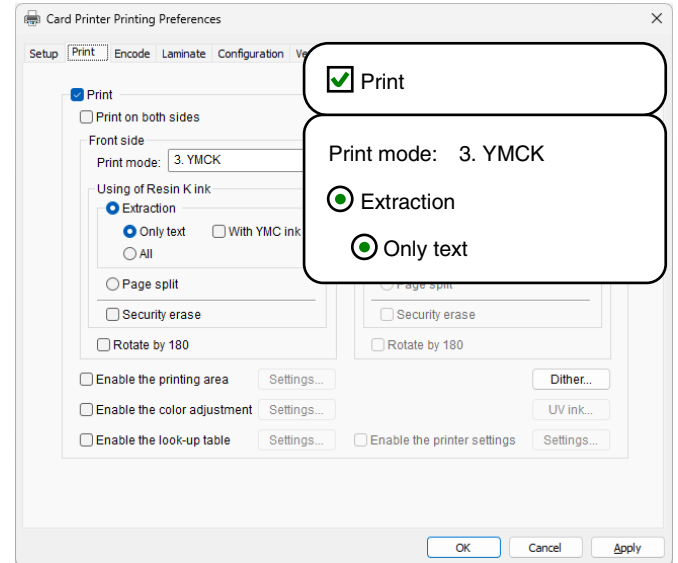
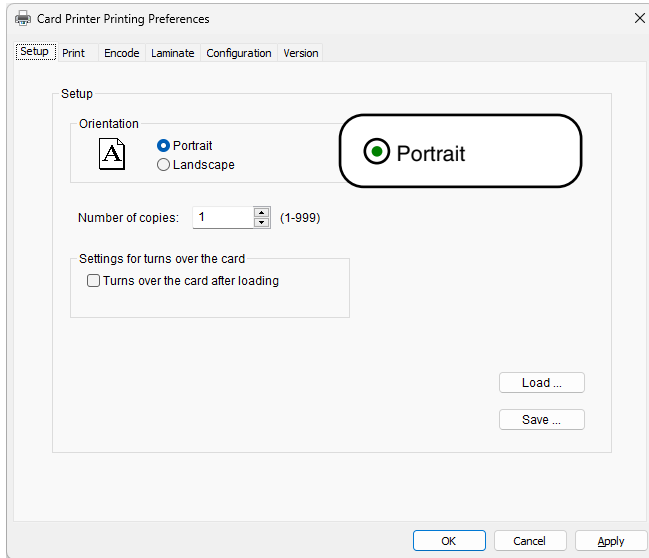


■ Printer

- Graphic : YMC ink
- Text : YMC ink + Resin K ink

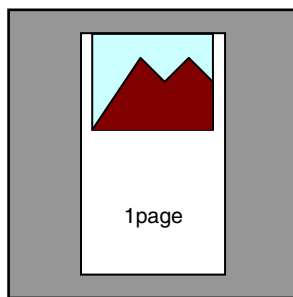


Single-sided Printing (Portrait)



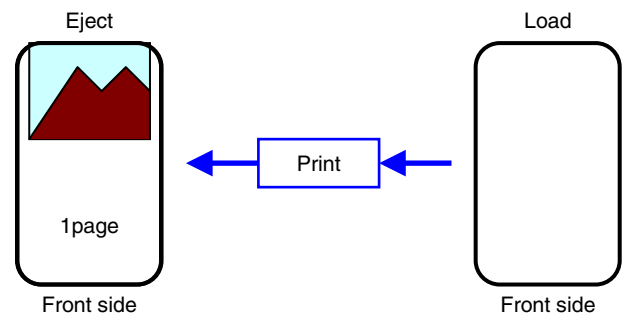
■ Application software

- Graphic : colored
- Text : black

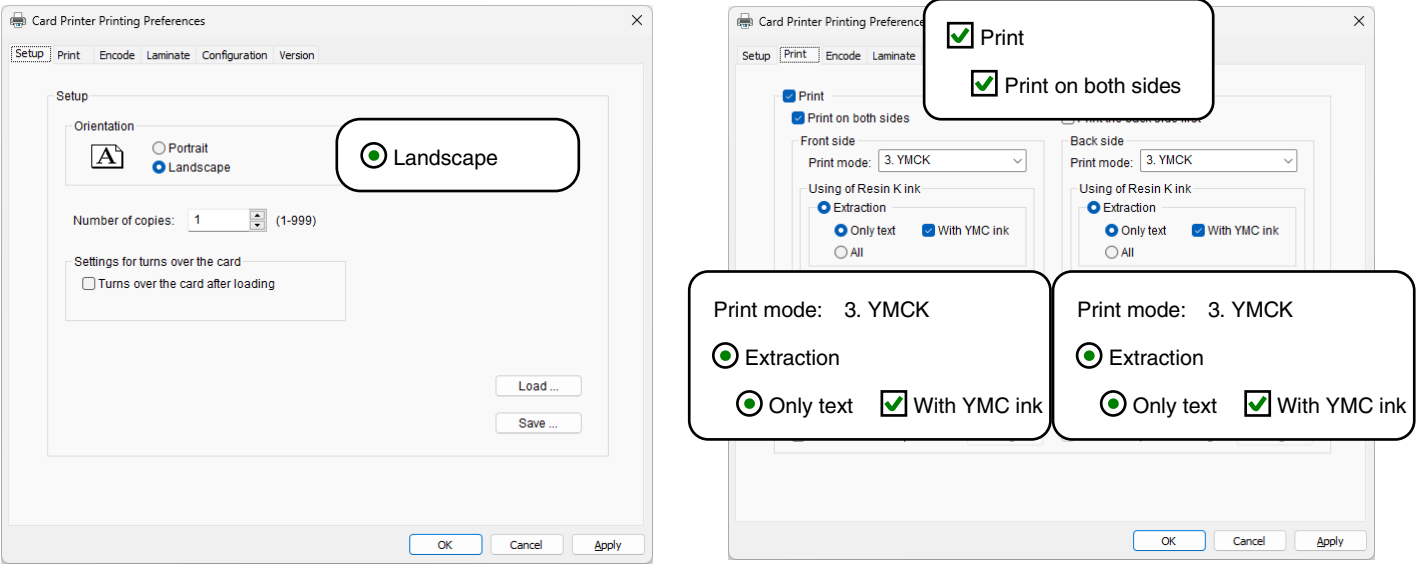


■ Printer

- Graphic : YMC ink
- Text : Resin K ink



Double-sided Printing (Default)

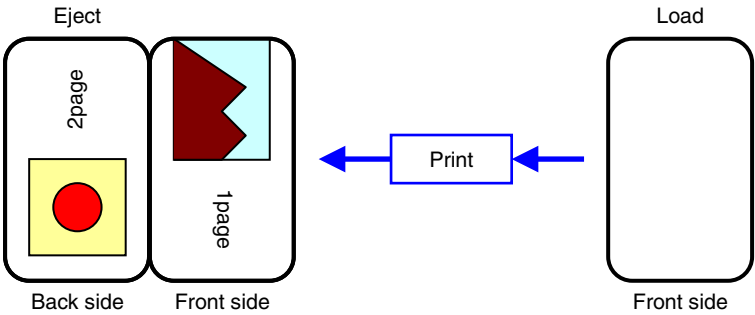
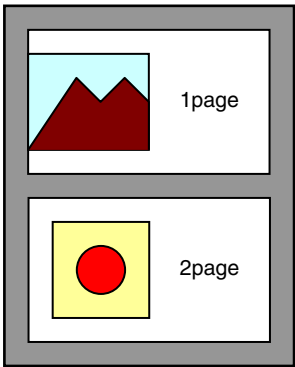


Application software

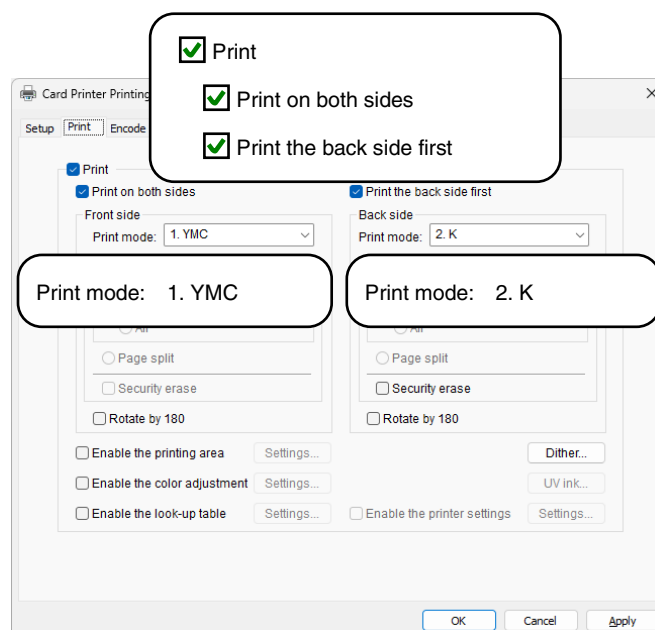
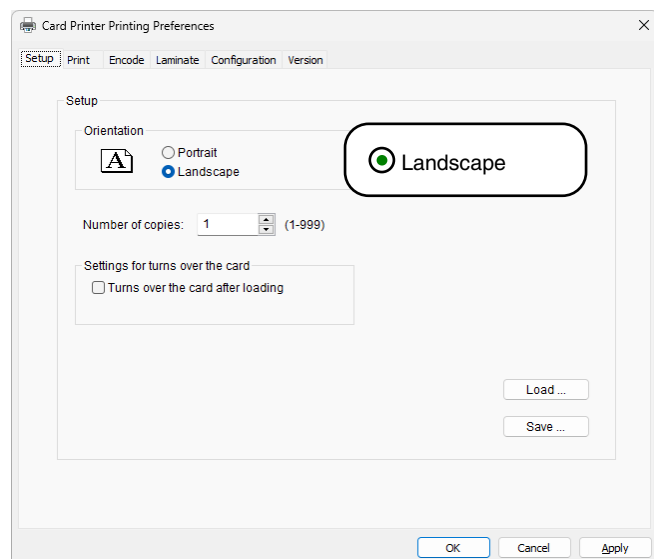
- Graphic : colored
- Text : black

Printer

- Graphic : YMC ink
- Text : YMC ink + Resin K ink



Double-sided Printing (Single-side Lamination)



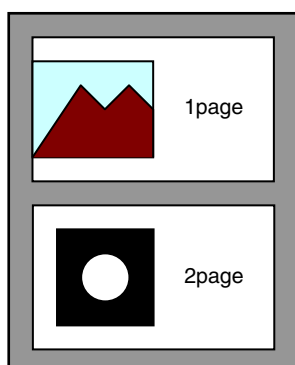
■ Application software

Page 1

- Graphic : colored
- Text : colored

Page 2

- Graphic : black
- Text : black



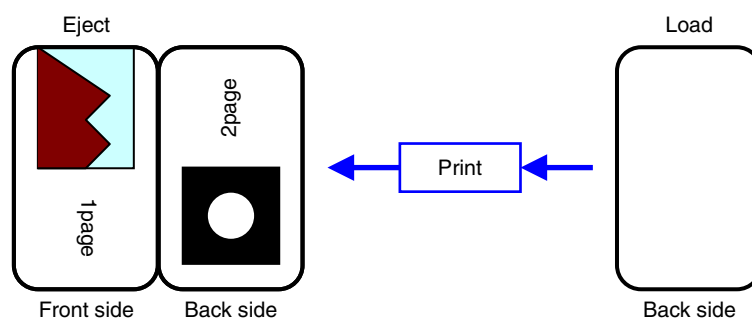
■ Printer

Front side

- Graphic : YMC ink
- Text : YMC ink

Back side

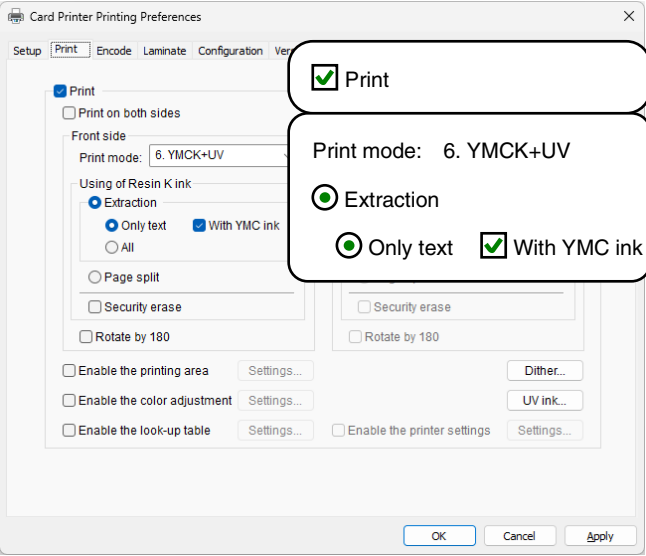
- Graphic : Resin K ink
- Text : Resin K ink



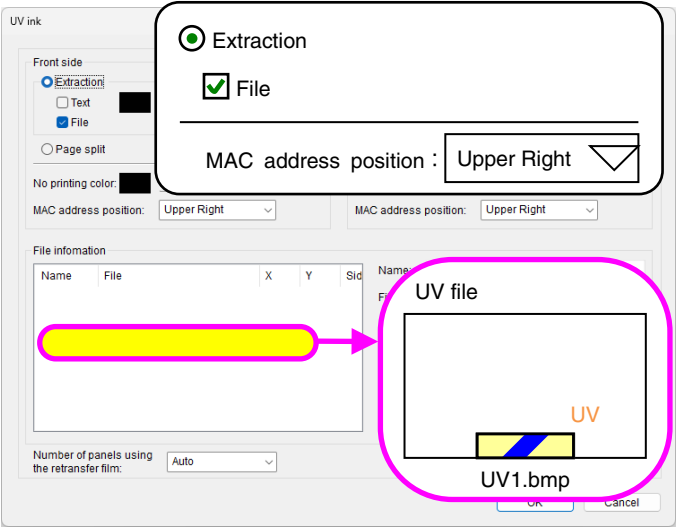
Memo:

- If page 2 is set as colored, printing is performed using the Resin K ink after dithering is complete.
["\[Dither\] Dialog Box"](#) (see page 63)

Single-sided UV Printing

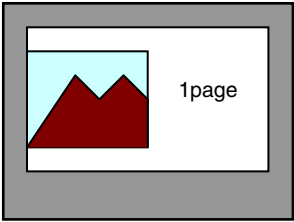


Clicking [UV ink...] opens the [UV ink] dialog box.



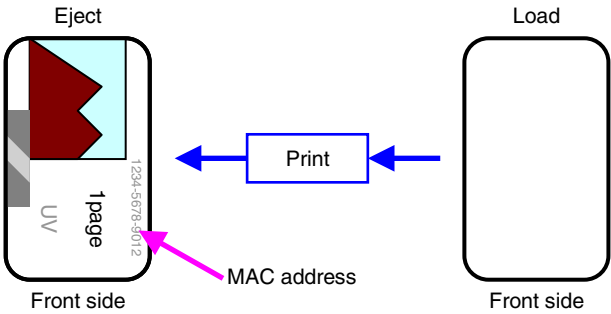
Application software

- Graphic : colored
- Text : black

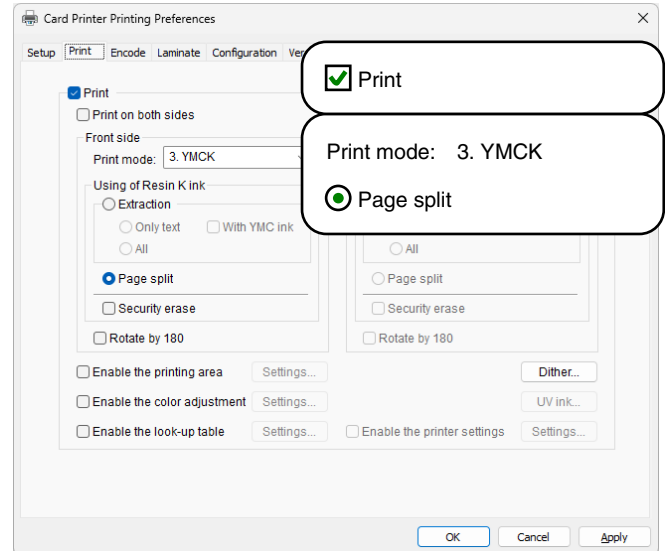
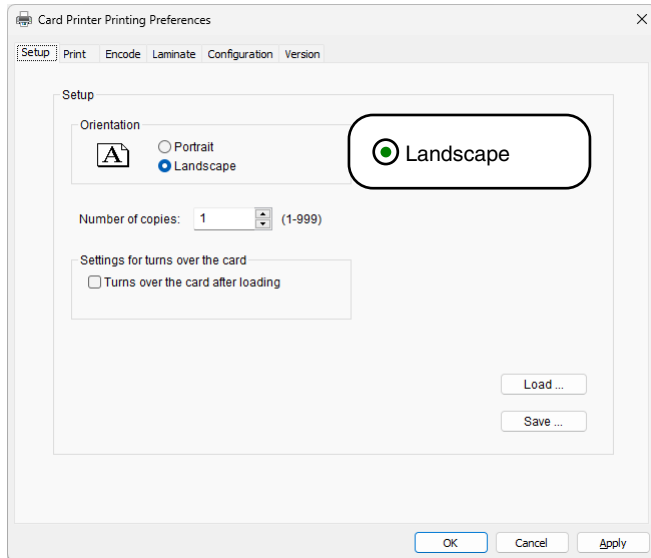


Printer

- Graphic : YMC ink
- Text : YMC ink + Resin K ink
- UV1.bmp : UV ink
- MAC address : UV ink



Page Split



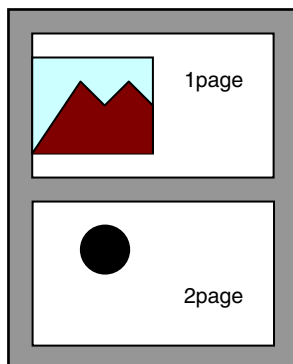
■ Application software

Page 1

- Graphic : colored
- Text : colored

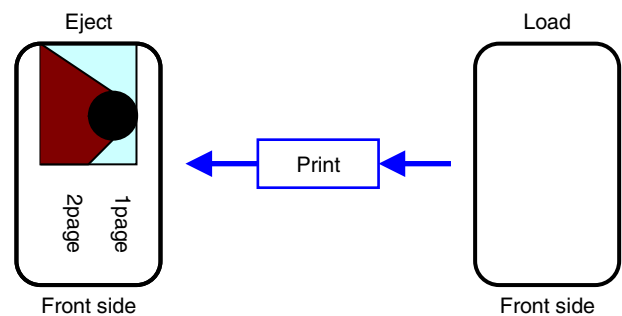
Page 2

- Graphic : black
- Text : black



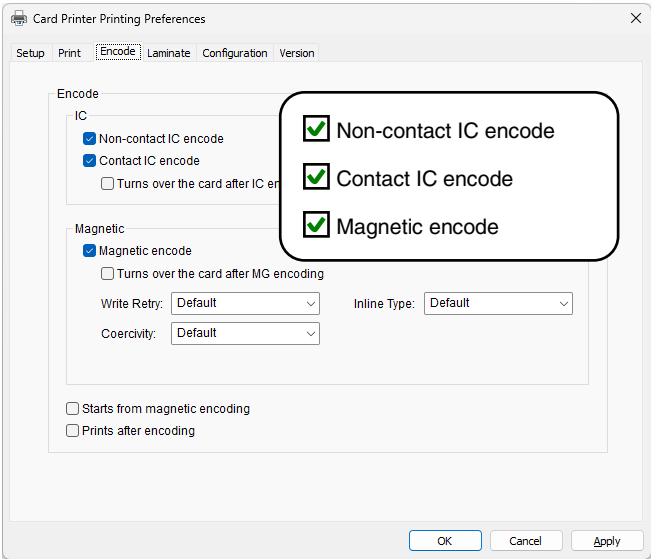
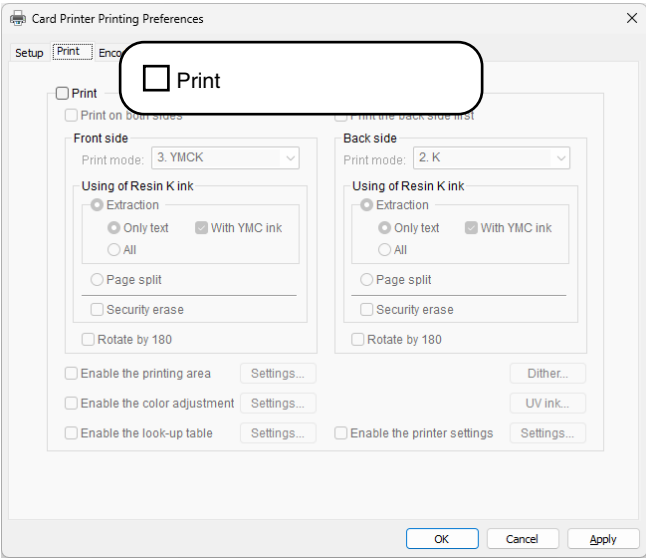
■ Printer

- Graphic : YMC ink + Resin K ink
- Text : YMC ink + Resin K ink



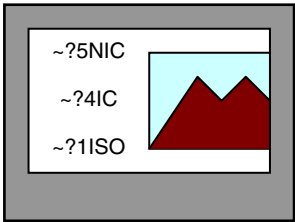
Example of Encode Setting

Encoding Only (ISO Card)



■ Application software

- Graphic : colored
- Text : black

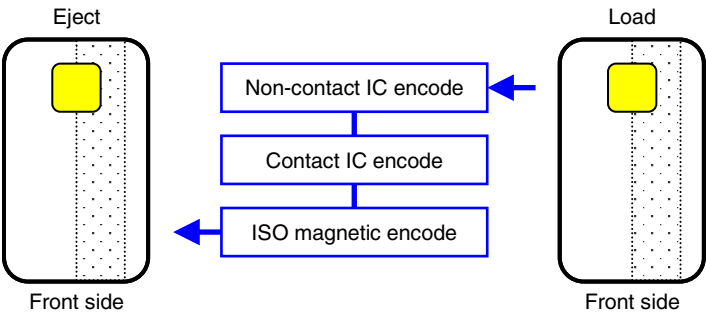


■ Printer

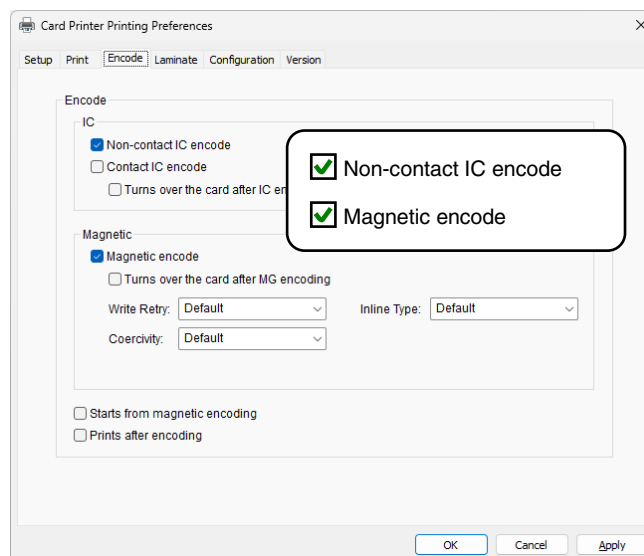
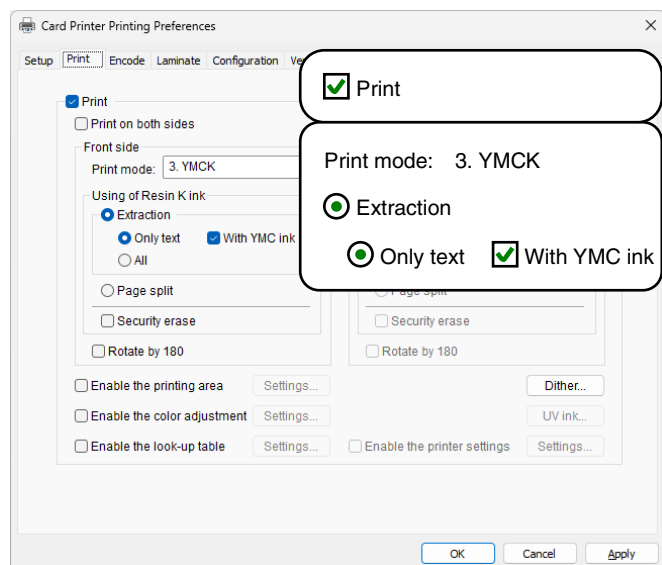
- Graphic : none
- Text : none

■ Inline Encoding

- Non-contact IC encode data : NIC
- Contact IC encode data : IC
- ISO track 1 magnetic encode data : ISO

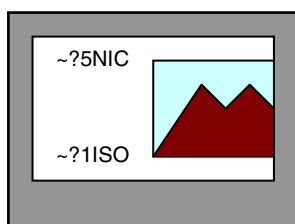


Encoding and Printing (ISO Card)



■ Application software

- Graphic : colored
- Text : black

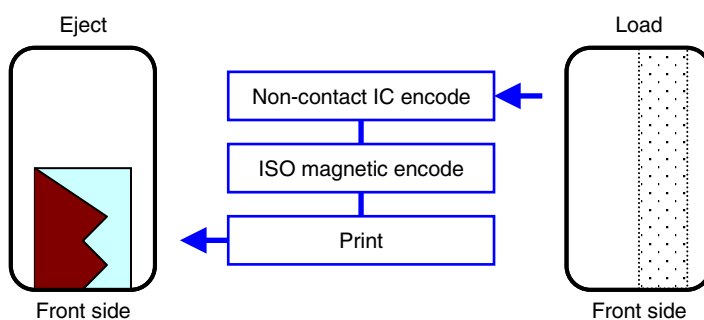


■ Printer

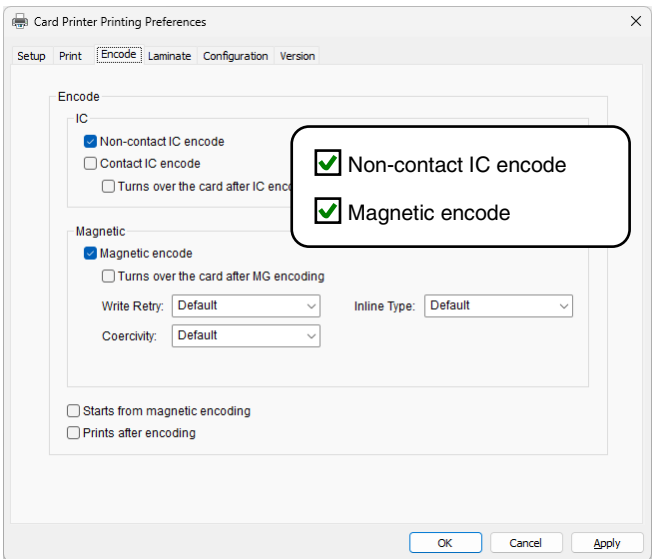
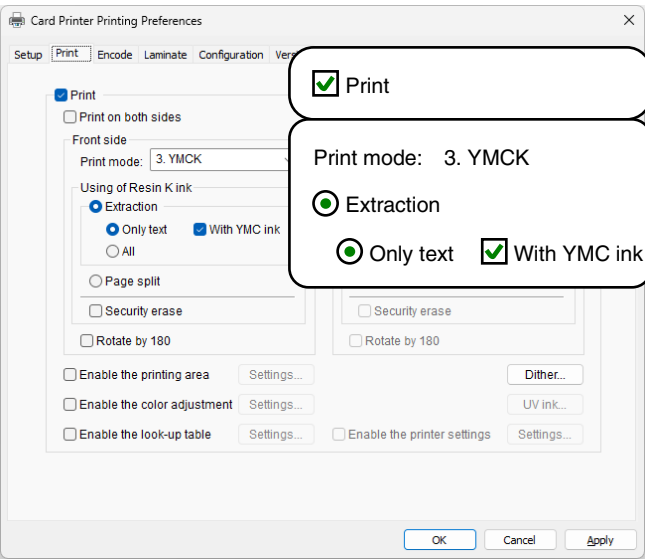
- Graphic : YMC ink
- Text : YMC ink + Resin K ink

■ Inline Encoding

- Non-contact IC encode data : NIC
- ISO track 1 magnetic encode data : ISO

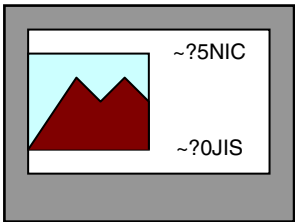


Encoding and Printing (JIS Card)



Application software

- Graphic : colored
- Text : black

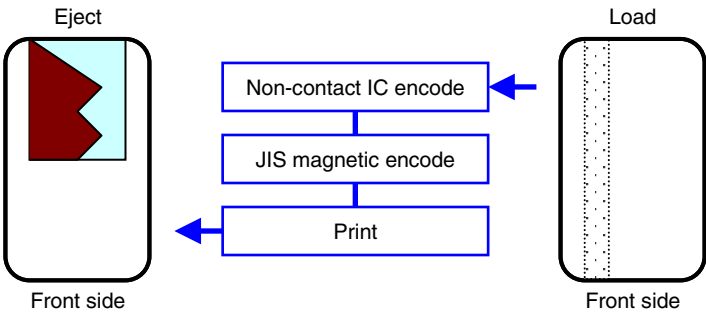


Printer

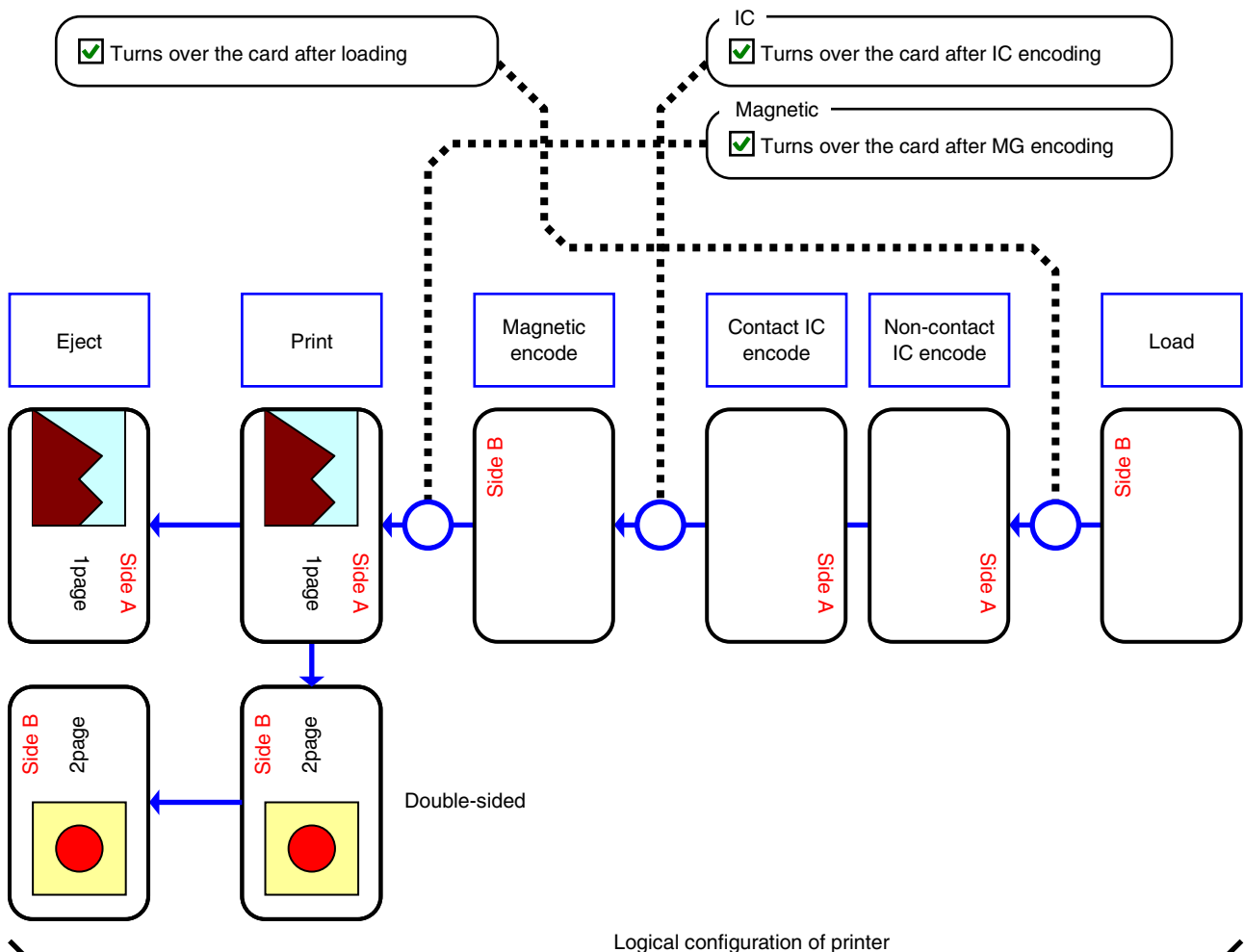
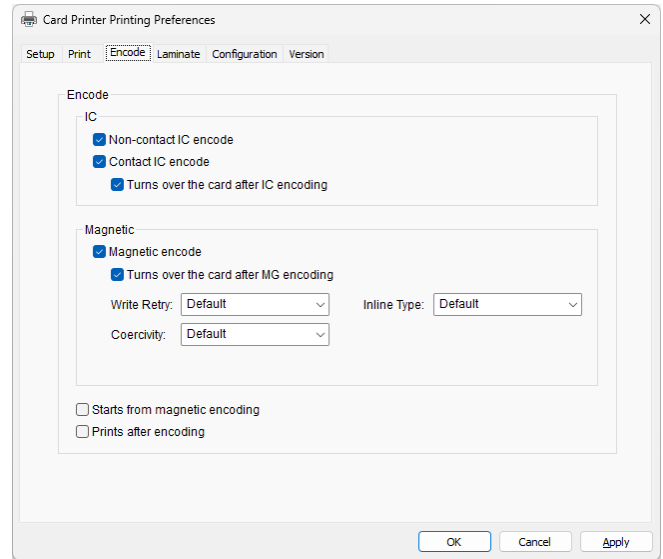
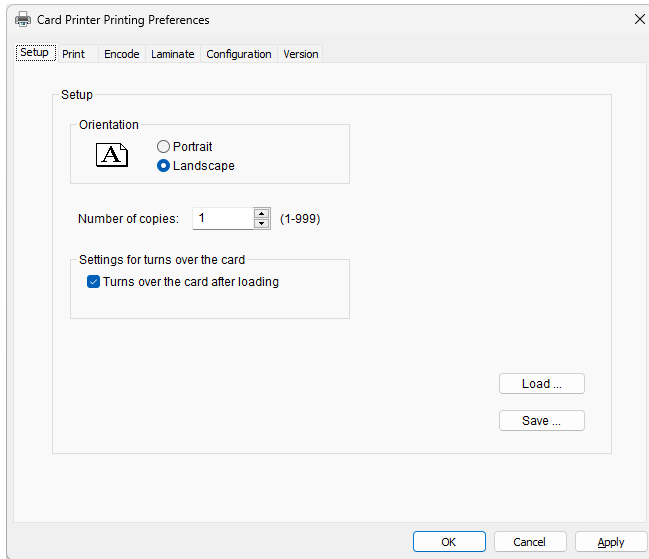
- Graphic : YMC ink
- Text : YMC ink + Resin K ink

Inline Encoding



- Non-contact IC encode data : NIC
- JIS 2 magnetic encode data : JIS



Card Turn Over Illustration

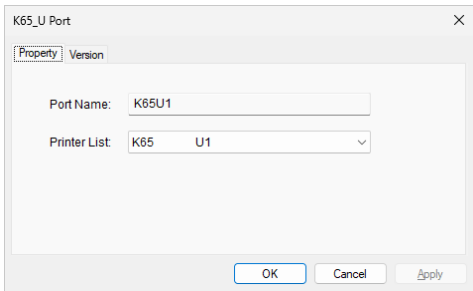


Port Monitor Settings

- "[Property] Tab" ( page 80)
- "[Version] Tab" ( page 80)

[Property] Tab

■ USB connection



■ Port Name

Name of the port. You can enter a name up to 24 characters.

■ Printer List

List of connected printers. The selected printer is used for printing the card.

Cautions:

The setting is incorrect if the following message appears.

- No Device
Printer is not found.
- No selection
Last used printer is not found. A different printer is currently connected.

■ [Find...] button

Search for the printer after selecting [IPv4] or [IPv6]. The search results are displayed in the [Printer List].

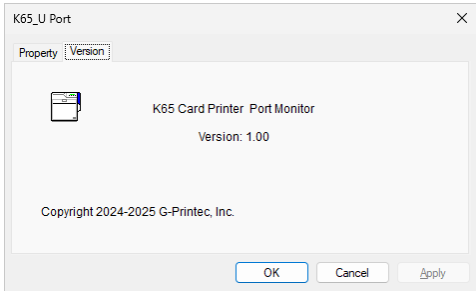
Cautions:

The setting is incorrect if the following message appears.

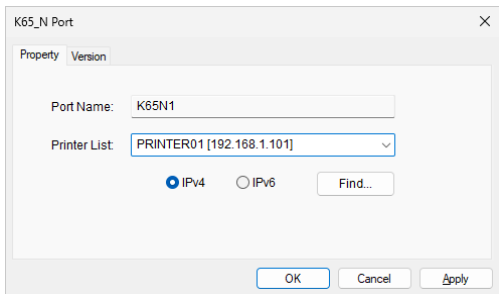
- No Device
Printer is not found.
- No selection
Last used printer is not found. A different printer is currently connected.

[Version] Tab

Displays the version and copyright information.



■ Ethernet (LAN) connection



■ Port Name

Name of the port. You can enter a name up to 24 characters.

■ Printer List

List of connected printers. The selected printer is used for printing the card.

■ IPv4

- When connecting using the IPv4 address, select [IPv4], followed by clicking [Find...] to search for the printer.
- After clicking [IPv4], you can search for the printer by directly entering the IPv4 address in the [Printer List].

■ IPv6

- When connecting using the IPv6 address, select [IPv6], followed by clicking [Find...] to search for the printer.
- After clicking [IPv6], you can search for the printer by directly entering the IPv6 address in the [Printer List].

Status Monitor Settings

■ What is status monitor ?

The status monitor is software that displays the status for the printer and laminator, and enables you to adjust the settings for the printer and laminator.

Cautions:

- The printer driver needs to be installed on the computer.
- Use the status monitor with the power of the printer turned on.

- ["Executing the Status Monitor" \(page 81\)](#)
- ["Screen Configuration" \(page 82\)](#)
- ["\[Printer Status\] Tab" \(page 83\)](#)
 - ["List of Status Display Messages" \(page 84\)](#)
- ["\[Printer Setting\] Tab" \(page 85\)](#)
- ["\[Retransfer\] Tab" \(page 86\)](#)
- ["\[Bend Remedy\] Tab" \(page 87\)](#)
- ["\[Media Setting\] Tab" \(page 87\)](#)
- ["\[Property\] Tab" \(page 88\)](#)
- ["\[Laminator\] Tab" \(page 89\)](#)
- ["\[Printer Select\] Tab" \(page 90\)](#)
- ["\[Security Lock\] Tab" \(page 93\)](#)
- ["\[Others\] Tab" \(page 93\)](#)
 - ["\[Administrators\] Dialog Box" \(page 94\)](#)

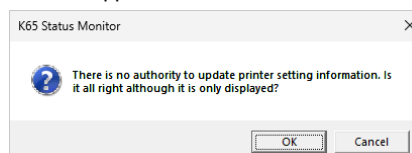
Executing the Status Monitor

You can run the status monitor using the following methods.

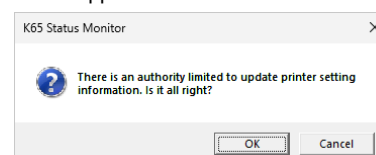
- Run using the shortcut on the Desktop display (if the icon is created during installation).
- Run from the Start menu (if a shortcut icon is created during installation).
- Run directly from the installed folder of the program.

Cautions:

- When a user logs in with administrator authority (Administrators group), the printer settings can be specified on the status monitor.
- When a user logs in without administrator authority and all the administrator setting items are disabled, the printer settings appear in the read-only mode on the status monitor and cannot be specified. The caution screen appears.

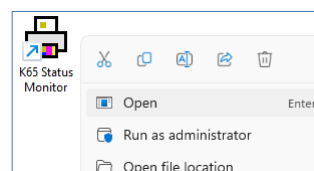


- When a user logs in without administrator authority and the administrator setting items are enabled, the printer settings can be specified on the status monitor. The caution screen appears.



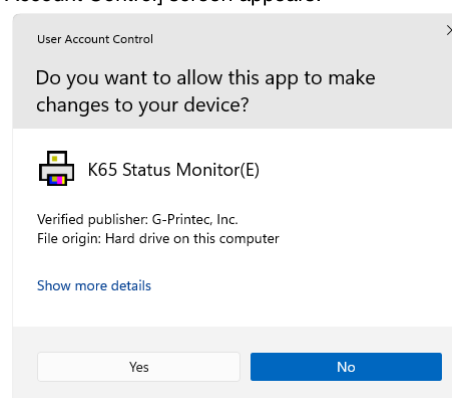
- Selecting [Run as administrator] enables you to run the status monitor as a user with administrator authority. Double-clicking the icon of the status monitor or selecting [Open] runs the status monitor as a user without administrator authority.

① Right-click the icon



② Select [Run as administrator]

- [User Account Control] screen appears.



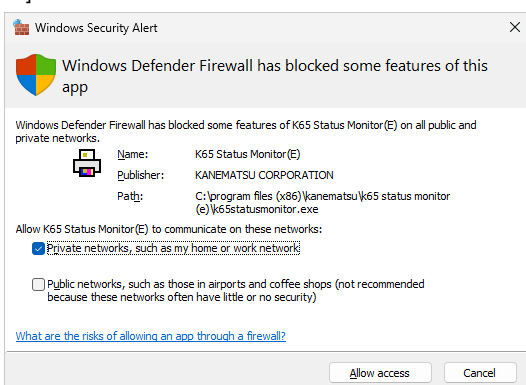
③ Click [Yes] or [Allow]

Memo:

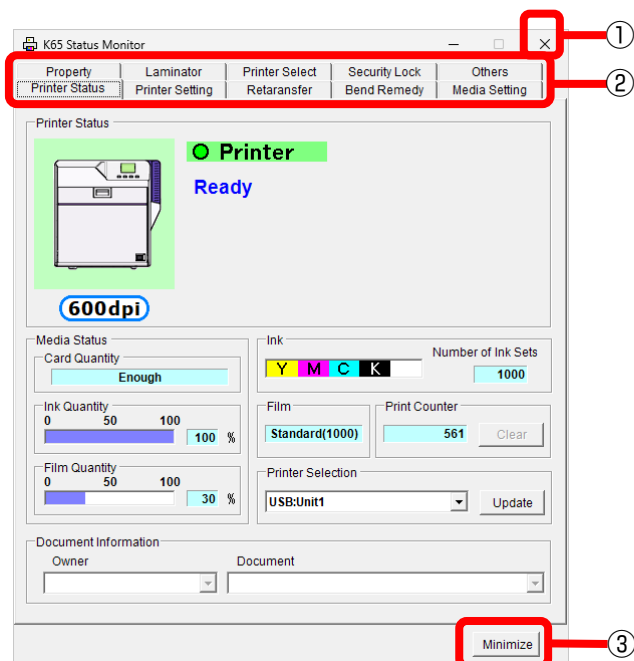
- Even if a user is logged on with the administrator account, the user may be regarded as one without administrator authority when running the status monitor.

Cautions:

- If a [Windows Security Alert] screen appears upon starting up the status monitor, click [Allow access].
The status monitor will fail to function properly if you click on [Cancel].



Screen Configuration



① Close button

Closes the status monitor.

② Screen selection tabs

Use these to switch to the following screens.

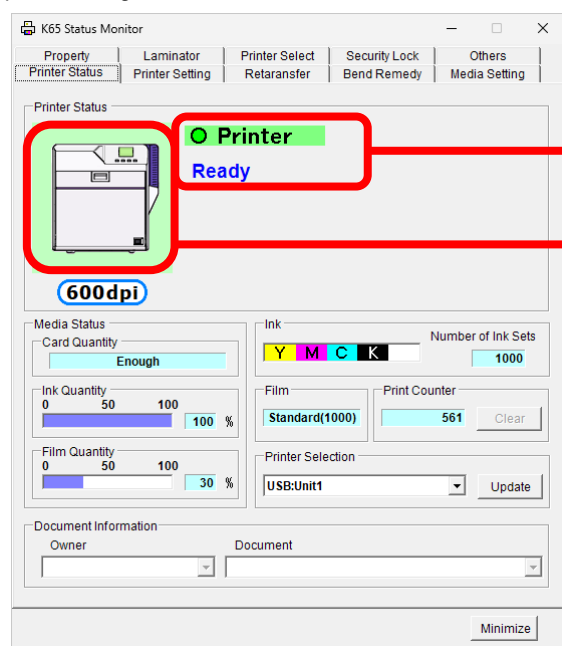
- **Printer Status**
Displays the printer's status.
- **Printer Setting**
For displaying and specifying the printer's print settings.
For displaying and specifying the printer's device settings.
- **Retransfer**
For displaying and specifying the conditions during retransfer to the card.
- **Bend Remedy**
For displaying and specifying the conditions during bend remedy of the card.
- **Media Setting**
Displays the status of the ink ribbon.
For setting the card and retransfer film.
- **Property**
Displays the device configuration.
Displays the firmware version.
Displays the counter value.
- **Laminator**
For displaying and specifying the laminator's settings.
- **Printer Select**
For selecting a printer.
For displaying and setting the network connection status.
- **Security Lock**
For displaying and setting the Security Lock status.
- **Others**
For performing test prints.
For downloading the firmware.

③ Minimize button

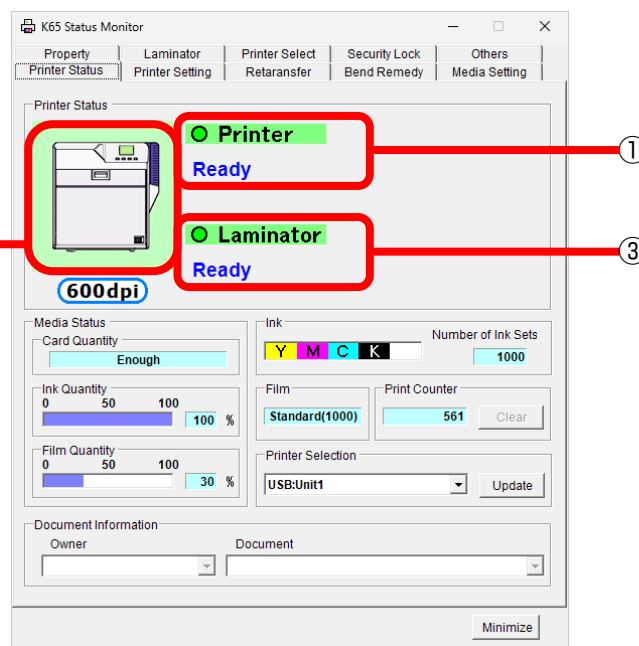
Minimizes the status monitor to an icon. The icon is displayed in the taskbar.

[Printer Status] Tab

Displays the printer's status. Information on the screen is automatically updated at regular intervals.



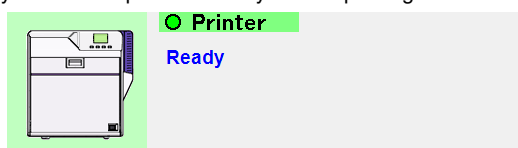
[Screen Configuration]



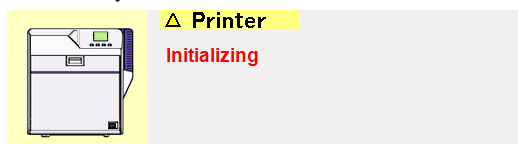
[Screen Configuration with Laminator]

① Printer status

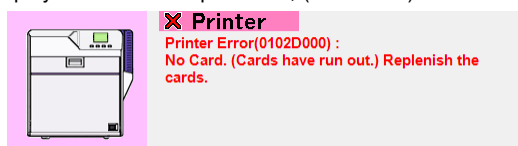
- Ready mode. The printer is ready to start printing.



- The printer is busy.



- Failure has occurred. The error code and description of the failure are displayed. In the example below, (0102D000) is the error code.



For more details, refer to ["List of Error Codes"](#) (page 97).

② Printer icons

- The icon on the left is displayed when the printer is functioning normally. After printing more than 1,000 cards since the last cleaning, it changes to the icon display shown on the right. When the right icon appears, perform procedures in ["Card Feed Roller / Heating Roller"](#) (page 103) under "Maintenance".



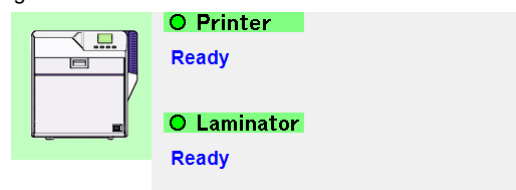
[Normal Condition]



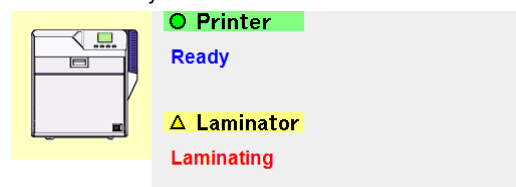
[When Roller Cleaning is Required]

③ Laminator status

- Ready mode. The printer and the laminator are ready to start printing.



- The laminator is busy.



- Failure has occurred. The error code and description of the failure are displayed. In the example below, (05000059) is the error code.



For more details, refer to ["List of Error Codes"](#) (page 100).

List of Status Display Messages

■ Status for the printer

Status Display Message	Description
Printer is not found.	The power of the printer is not turned on, or the computer is not properly connected to the printer.
Ready	The printer is ready to start printing cards. The printer is in the Ready mode.
Initializing	Printer initializing. The printer switches to the Ready mode after initialization is complete.
Offline Mode	The printer is in the setting mode, or roller cleaning is in progress. When this is complete, the printer switches to the Ready mode.
Preheating	Preheating of the heating roller is in progress. The printer switches to the Ready mode upon reaching an appropriate temperature.
Heating	Adjusting the heating roller to the preset temperature.
Card Loading	The printer is printing cards. Indicates the operating status when the printer is printing cards. After card printing is complete, the printer returns to the Ready mode.
Card Transporting	
No-Contact IC Encoding	
Contact IC Encoding	
MG Encoding	
Printing	
Retransfer	
Power Saving	
	The printer is in the Power Saving mode, which helps to reduce power consumption. To deactivate the power save mode, either initialize the printer from the operation panel or refer to "Deactivating the Power Save Mode" (page 51).

■ Status for the laminator

Status Display Message	Description
Laminator is not found.	The power of the laminator is not turned on, or the laminator is not properly connected to the card printer.
Ready	The laminator is ready to start laminating cards. The laminator is in the Ready mode.
Initializing	Laminator initializing in progress.
Cleaning	Roller cleaning of the laminator is in progress.
Preheating	Preheating of the laminator's heating roller is in progress. The laminator switches to Ready mode upon reaching the preset temperature.
Laminating	Card laminating of the laminator is in progress. After laminating is complete, the laminator returns to the Ready mode.
Power Saving	The laminator is in the Power Saving mode, which helps to reduce power consumption. To exit the Power Saving mode, reset using the operation panel of the card printer.
Download Mode	The laminator is in the download mode.
Low Power Mode	Standby state with the heater temperature lowered when cards are not printed for a specific time interval.

Other Status

■ Media Status

Displays the remaining space on the media.

■ Card Quantity

Displays the remaining card quantity as [Enough] or [None].

Memo:

- If [None] is displayed, replenish the cards accordingly. For more details, refer to ["Setting Cards"](#) (page 16).

■ Ink Quantity

Displays the remaining ink ribbon quantity in percentage in 50 different levels.

Cautions:

- The remaining quantity is an estimated value. Differences may occur depending on the usage as well as media type.

■ Film Quantity

Displays the remaining retransfer film quantity in percentage in 10 different levels.

Cautions:

- The remaining quantity is an estimated value. Differences may occur depending on the usage as well as media type.

■ Ink

Displays the information on the loaded ink ribbon. The print counter appears blank if the ink ribbon is not correctly recognized.

You may not be able to control the ink ribbon properly in this case.

Check to ensure that the ink ribbon is properly installed.

For more details, refer to ["Installing the Ink Ribbon"](#) (page 14).

■ Film

Displays the type of retransfer film loaded.

■ Print Counter

Displays the total number of cards that are correctly printed. Press the [Clear] button to reset the print counter to 0.

■ Printer Selection

You can switch to the relevant printer when multiple printers are connected to a single computer.

If the printer is not found or if you want to change the search criteria, refer to ["Searching a printer"](#) (page 90) in the [Printer Select] Tab.

Memo:

- Pressing the [Update] button searches for a connected printer and updates the printer in the list box.
- Selecting a printer from the pull-down menu switches the display to the current status of the selected printer.

■ Document Information

When printing from the printer driver, the name of the owner and document are displayed.

[Printer Setting] Tab

For specifying the printer settings.

Make sure that you take down the set values before making any changes.

Printer Setting

Print Quality

For setting the print quality of the YMCK printing.

Resin K Ink Print Mode

For setting the print quality of the Resin K ink.

Selecting [Fine] enhances the printing quality, but slows down the printing speed.

MG Peel Mode

When a magnetic encoder unit is installed, selecting [MG Stripe] optimizes the peeling operation of retransfer films for magnetic stripe cards.

Standby Mode

Specify a position when a laminator is connected.

This is used for setting the standby position of the card until the laminator reaches its Ready state during double-sided printing. The default setting is [Front Wait].

Back Side Cooling

This setting is only valid during double-sided printing.

Setting this item may help to reduce card bend during double-sided printing. However, the printing time may also be affected.

YMC Ink Print Level

For setting the print density of the YMC ink.

Resin K Ink Print Level

For setting the print density of the Resin K ink.

UV Ink Print Level

For setting the print density of the UV ink.

PO Ink Print Level

For setting the print density of the peel-off ink.

Cautions:

- Please consult our authorized dealers about the settings of peeloff.

MG Unit

Number of Retry

For setting the maximum number of retries when writing to or reading of the magnetic stripe fails. The default value is [1].

ISO Mode

For specifying the coercivity of the ISO magnetic stripe. The default setting is [Hi-Co].

JIS Mode

For specifying the coercivity of the JIS magnetic stripe. The default setting is [Lo-Co].

Power Control

Power saving interval

The Power Saving mode helps to reduce power consumption when printing or operation is not performed over a specified time interval. Select whether to disable the Power Saving mode or specify the time interval before switching to the Power Save mode.

Selecting [Disable] deactivates the Power Saving mode. The default setting is [Disable].

HR Control

Switches to the standby mode by lowering the temperature of the retransfer heating roller when printing is not performed for 30 minutes or longer. The default setting is [Enable].

[Update] button

For applying changes made using the slide bar or radio buttons to the printer settings.

[Refresh] button

Displays the printer settings on the screen.

Option

Left side Eject Speed

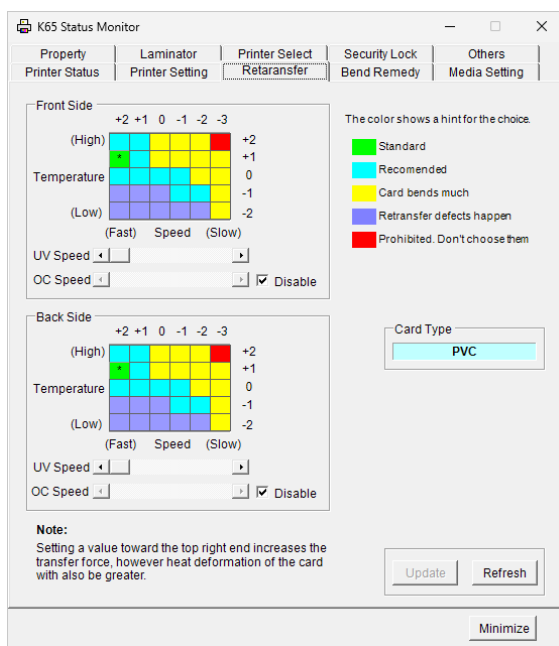
For setting the left side eject speed.

Contactless IC Card Position

For setting the contactless IC card position.

[Retransfer] Tab

The retransfer settings screen enables you to set the conditions of retransfer to the card.



■ Front side / Back side

■ Setting procedures

- The vertical axis shown in the setting area indicates the retransfer temperature, and the horizontal axis represents the retransfer speed.
- Click on the corresponding square to change the value. The selected value is indicated by [*].
- Setting a value toward the top right end increases the transfer force. However, the stronger heat also increases the deformation of the card.
- The colors below serve as a rough indicator for selection.

Color		Description
	Green	Standard value.
	Light Blue	Appropriate range. Recommended range when selecting a value other than the standard value.
	Yellow	Card bend increases.
	Blue	Retransfer defect may occur.
	Red	Do not select these values.

Cautions:

- The different colors serve as a rough guide. The optimal value varies according to the card type as well as the environment in which the printer is used. Adjust the setting according to the actual environment.
- It may take a while for printing to start when the retransfer temperature is changed.
- There is only one standard retransfer temperature. Altering the retransfer temperature on one side changes the temperature on the other side.
- The range of optimal values varies according to the [Card Type]. You can change the card type in the [Media Setting] Tab.
- If the card type varies across printers, set the card type to use accordingly. The color of the setting area varies according to the card type in use.

■ UV Speed

Setting for printing the retransfer film in two panels when UV ink is used.

It is used to set the speed of the retransfer heating roller during retransfer of the UV ink. This setting helps to increase the retransfer speed without affecting the quality of the UV print.

■ OC Speed

Settings related to overcoat (OC). A second retransfer is performed using an unused panel after retransfer to reinforce the print surface of the card.

When performing a second retransfer, set the speed of the retransfer heating roller.

To not applying an overcoat, select [Disable]. The default value is [Disable].

■ Card Type

The appropriate value varies according to the type of card used. You can change the card type in the [Media Setting] Tab.

For more details, refer to "[Card Type](#)" ([page 88](#)) in the [Media Setting] Tab.

■ [Update] button

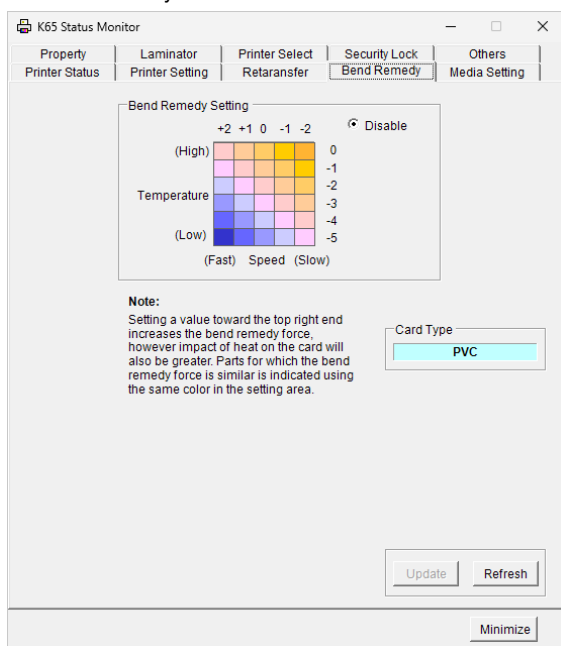
Applies the selected value to the printer.

■ [Refresh] button

Displays the printer settings on the screen.

[Bend Remedy] Tab

The bend remedy settings screen enables you to set the conditions for the card's bend remedy.



■ Bend Remedy Setting

■ Setting procedures

- The vertical axis in the setting area indicates the bend remedy temperature, and the horizontal axis represents the bend remedy speed.
- Click on the corresponding square to change the value. The selected value is indicated by [*].
- Setting a value toward the top right end increases the bend remedy force. However, the stronger heat may have a greater impact on the card.
- Parts for which the bend remedy force is similar is indicated using the same color in the setting area.
- To disable bend remedy, select the [Disable] button. [Disable] is selected in the default setting.

Cautions:

- The different colors serve as a rough guide. The optimal value varies according to the card type as well as the environment in which the printer is used. Adjust the setting according to the actual environment.
- Bend remedy is effective when printing on only one side. Performing double-sided printing with a high bend remedy temperature may cause the card to deform significantly. As such, select the [Disable] button during double-sided printing.
- When the [Disable] radio button is deselected, the printer switches to and remains in the preheating mode (for approximately 10 minutes) until the bendy remedy heating roller's temperature has gone down. This is not a malfunction. Wait for the printer to switch to the Ready mode.
- When the [Disable] button is selected, the speed is automatically set to the maximum value of [+2].
- The stronger the bend remedy force, the less glossy the surface of the remedy side will be.

■ Card Type

The appropriate value varies according to the type of card used. You can change the card type in the [Media Setting] Tab.

For more details, refer to "[Card Type](#)" (page 88) in the [Media Setting] Tab.

■ [Update] button

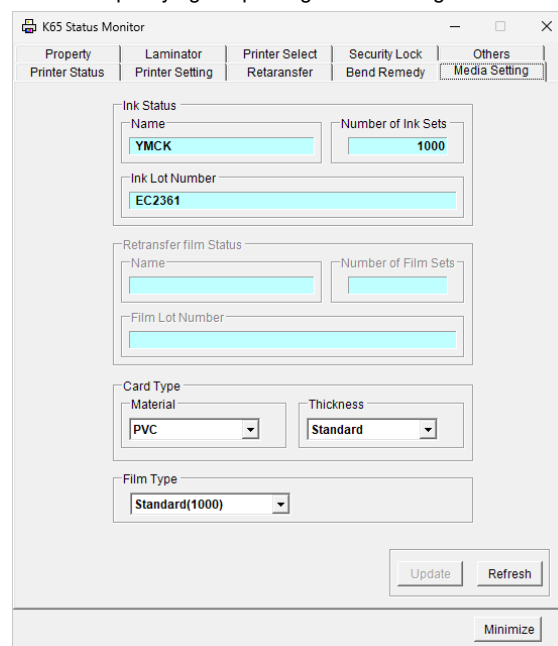
Applies the selected value to the printer.

■ [Refresh] button

Displays the printer settings on the screen.

[Media Setting] Tab

This is used for specifying the printing media settings.

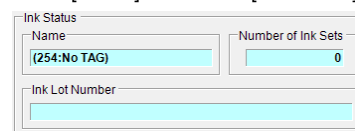


■ Ink Status

■ Name

Displays the name of the loaded ink ribbon.

- If the ink ribbon cannot be recognized, the cause for this problem is indicated in the [Name] field under [Ink Status].



Message	Cause and Action During Ink Recognition Error
(252:Invalid TAG Data)	The TAG record data adhered to the ink ribbon is incorrect. Replace the ink ribbon and try again.
(253:Defective TAG)	Unable to establish communication with the TAG adhered to the ink ribbon. Replace the ink ribbon and try again.
(254:No TAG)	Unable to read the TAG adhered to the ink ribbon. Check to ensure that the ink ribbon is correctly set.
(255:Defective R/W)	Printer TAG reader error. The printer needs to be repaired.

■ Number of Ink Sets

Displays the specification of the loaded ink ribbon in the number of images. This is not an indication of the current ink level.

■ Ink Lot Number

Displays the lot number of the loaded ink ribbon.

■ Card Type

■ Material

For selecting [PVC], [PET-G] or [HR-PET-G] as the card material.
An optimal value for the retransfer speed and temperature settings is displayed according to the selected card.

The optimal value of other materials will not be displayed.

[HR-PET-G] : Heat-resistant PET-G

["\[Retransfer\] Tab" \(page 86\)](#)

["\[Bend Remedy\] Tab" \(page 87\)](#)

■ Thickness

For setting the discharge rate to the card stacker in accordance with the card thickness. Set this to [Standard] during normal use.

Cautions:

- To use cards of different thickness, refer to "Adjusting Card Thickness" and adjust accordingly.
["Adjusting card thickness" \(page 17\)](#)
- If the material of the cards to be used varies across printers, set the card material separately.

■ Film Type

Displays the specification of the loaded retransfer film in the number of images. This is not an indication of the current film level.

■ [Update] button

Applies the selected value to the printer.

■ [Refresh] button

Displays the printer settings on the screen.

[Property] Tab

This tab displays the device configuration.

Optional Unit Configuration		Version	
Magnetic Encoder	ISO	Printer	V05-01F
Contact IC Encoder	None	Config.	V01-02-9
Contact IC R/W	None	Table	V01-14
Contactless IC Encoder	Installed	Laminator	Z011
Turn Over Unit	Installed		
Bend Remedy Unit	Installed		
Security Lock	Installed		
Laminator	Installed		

Counter	
Print Counter	561
Cleaning Counter	561
Error Counter	0
Printer Total Counter	561
Thermal Head Counter	4229

■ Optional Unit Configuration

Displays the configuration of optional devices.

Cautions:

- If a setting other than [None] is displayed for the contact or noncontact IC encoder, it means the configuration supports installation of an IC encoder, and is not an indication that an IC encoder has been installed.
- Consult our authorized dealers on how to install the IC encoder.

■ Version

Displays the firmware version of the printer and laminator. If a laminator is not connected, [????????] will appear.

■ Counter

Displays the counter value of the printer.

■ Print Counter (free counter)

Displays the total number of cards that are correctly printed.

Memo:

- Clicking [Clear] for "Print Counter" in the [Printer Status] Tab resets the counter value of the [Print Counter] to 0.
["Print Counter" \(page 84\)](#)

■ Cleaning Counter

Displays the number of cards that are correctly printed after the last cleaning.

■ Error Counter

Displays the number of cards that are not correctly printed.

Memo:

- Clicking [Clear] for "Print Counter" in the [Printer Status] Tab resets the counter value of the [Error Counter] to 0.
["Print Counter" \(page 84\)](#)

■ Printer Total Counter (total counter)

Displays the number of cards that are correctly printed.

■ Thermal Head Counter (head counter)

Displays the number of print ink panels for the thermal head.
For example, when printing on a single side using all YMCK inks, 4 are added to each card.

[Laminator] Tab

Settings related to laminating operations for an optional laminator.

■ Basic

■ Laminate Mode

- Laminate

Laminates the card.

- Pass Through

Passes through the card without laminating.

■ HR Control

This setting works simultaneously with the card printer setting. The default setting is [Enable].

- For setting whether to standby the laminator by lowering the heating roller temperature if cards are not printed for 30 minutes or longer. This is always set to [Enable] automatically when overlay film is selected. (Regardless of the setting, turn off the heating roller and standby the laminator if you will not be performing card printing for a long time.)
- Settings can be changed on the [Printer Setting] tab sheet.

■ Counter

- Cleaning Counter

Displays the number of laminations performed after the last roller cleaning. This number is reset to 0 each time roller cleaning is performed.

■ Bottom Side Setting / Top Side Setting

■ Cassette is Detected / No Cassette

[Cassette is Detected] or [No Cassette] will be displayed for the bottom side film cassette and top side film cassette.

- [Film Type], [Position] and [Temperature] cannot be set in the [No Cassette] state.

■ Film Type

Select the film type for the bottom side and top side film.

- For double-sided lamination, use the same type of laminate film for the top side and bottom side.
- Match the loaded laminate film with the [Film Type] setting.

■ Position

For setting the patch position for the moving direction of the bottom side and top side film. The patch position can be adjusted to the left or right by 0.17 mm per step.

■ Temperature

For setting the temperature of the bottom side and top side heating roller. Settable range is between 90 °C and 180 °C. (A temperature of 185 °C or higher may be selectable depending on the version of the status monitor. However, in this case, the temperature for the heating roller remains at 180 °C.)

■ Common Setting

■ Speed

For setting the card feed speed during lamination.

■ Cooling Time

For setting the standby time for cooling down the card immediately before lamination starts.

■ [Update] button

Applies the selected value to the laminator.

■ [Refresh] button

Displays the laminator settings on the screen.

[Printer Select] Tab

This tab is used for selecting a printer and specifying the network settings.

■ Current Printer

■ Selecting a printer

Selecting a printer from the pull-down menu switches the display to the current status of the selected printer.

■ Searching a printer

Clicking the [Scan Printer] button displays the search results in the pull-down menu.

■ Searching USB connection printers

- ① Click [Scan Printer]
- ② Printer search is performed, and the result is displayed in the pull-down menu

■ Searching printers for the IPv4 address

- ① Select [IPv4], and click [Scan Printer]
- ② Printer search is performed, and the result is displayed in the pull-down menu

■ Searching printers for the IPv6 address

- ① Select [IPv6], and click [Scan Printer]
- ② Printer search is performed, and the result is displayed in the pull-down menu

Cautions:

- The printer connected via Ethernet (LAN) may not be searchable if IPSec is enabled. In this case, search the printer again after registering the printer.

■ Registering a printer

You can enter the IP address in the pull-down menu to register the printer for the IP address in the menu.

Memo:

- Registered IP addresses will be stored in the memory even after exiting the status monitor.
- The printer cannot be registered if the IP address format is incorrect.

■ Registering printers for the IPv4 address

- ① Select [IPv4], and enter the IPv4 address in the pull-down menu
- ② Click [Scan Printer] to display the registration confirmation dialog box
- ③ Click [OK] to register the printer for the entered IP address to the pull-down menu

■ Registering printers for the IPv6 address

- ① Select [IPv6], and enter the IPv6 address in the pull-down menu
- ② Click [Scan Printer] to display the registration confirmation dialog box
- ③ Click [OK] to register the printer for the entered IP address to the pull-down menu

■ Deleting a printer

You can select a printer and delete it from the pull-down menu.

■ Deleting printers for the IPv4 address

- ① Select [IPv4], followed by selecting the printer to delete from the pull-down menu
- ② Select [Delete Printer] from the pull-down menu. A deletion confirmation dialog box appears
- ③ Click [OK] to delete the selected printer from the pull-down menu

■ Deleting printers for the IPv6 address

- ① Select [IPv6], followed by selecting the printer to delete from the pull-down menu
- ② Select [Delete Printer] from the pull-down menu. A deletion confirmation dialog box appears
- ③ Click [OK] to delete the selected printer from the pull-down menu

■ Printer Name

For setting the name of the selected printer.

You can input up to 10 ASCII characters. Symbol characters may not be displayed on the operation panel.

■ Default Interface

For setting the interface during startup. For Ethernet (LAN) connection, the settings are displayed in the read-only mode, and they cannot be changed.

Cautions:

- Regardless of the default interface setting, priority is given to USB if a USB cable is connected.
- To assign priority to the USB connection, enable the operation of the computer and USB hub.

• Network

Enables you to print via the Ethernet (LAN) connection.

• USB

Enables you to print via the USB connection.

■ IPv4 Network Setting

For setting items related to Ethernet (LAN). For Ethernet (LAN) connection, the settings are displayed in the read-only mode, and they cannot be changed.

Cautions:

- Determine the network setting items according to the instructions of the network administrator for the location where the printer unit is installed.
- Other network devices may be affected if the network setting is incorrect.
- When only USB connection is used, there is no need to specify the network setting.

■ Obtain and IP Address Automatically

Values such as the IPv4 address can be automatically acquired from the DHCPv4 server.

If the DHCPv4 server is not found, settings in the [Use the following IP Address] will be applied.

Memo:

- For values automatically acquired from the DHCPv4 server, only the IP address is displayed in [Current Address].
- Values such as the IP address may change regularly according to the DHCPv4 server settings.
- If you want to use a static IP address for application software such as the printer driver, set to [Use the following IP Address].

■ Use the following IP Address

Uses a static IP address. Set the [IP Address], [Subnet Mask], and [Default Gateway].

■ Current Address

Displays the IPv4 address.

■ IPv6 Network Setting

For setting items related to Ethernet (LAN). For Ethernet (LAN) connection, the settings are displayed in the read-only mode, and they cannot be changed.

Cautions:

- Determine the network setting items according to the instructions of the network administrator for the location where the printer unit is installed.
- Other network devices may be affected if the network setting is incorrect.
- When only USB connection is used, there is no need to specify the network setting.

■ Obtain and IP Address Automatically

Values such as the IPv6 address can be automatically acquired from the DHCPv6 server.

If the DHCPv6 server is not found, settings in the [Use the following IP Address] will be applied.

Memo:

- For values automatically acquired from the DHCPv6 server, only the IP address is displayed when you click [Details...].
- Values such as the IP address may change regularly according to the DHCPv6 server settings.
- If you want to use a static IP address for application software such as the printer driver, set to [Use the following IP Address].

■ Use the following IP Address

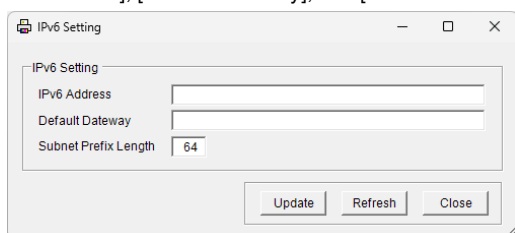
You can specify a static IP address as follows.

Click [Details...] to set [IPv6 Address], [Default Gateway], and [Subnet Prefix Length].

■ [Details...] button

Displays the [IPv6 Setting] screen.

Set [IPv6 Address], [Default Gateway], and [Subnet Prefix Length].



■ Security Setting

For setting items related to the IPSec of Ethernet (LAN). The settings are displayed in the read-only mode when connection is established via Ethernet (LAN). The settings cannot be changed.

Cautions:

- Determine the setting items according to the instructions of the network administrator for the location where the printer unit is installed.
- Encrypted communication cannot be established if the security settings are incorrect.
- When only USB connection is used, there is no need to specify the security settings. USB connection does not support encrypted communication.
- It is not possible to specify the security settings for the printer unit without using a USB connection.
- For details on downloaded files to be used for the security settings, refer to "IPSec". ["IPSec" \(page 37\)](#)
- Files cannot be downloaded while the printer is initializing or printing.

• IPSec Disable

Communication is enabled only when IPSec is not used. The default setting is [IPSec Disable].

• IPSec Enable

Communication is established using IPSec. After [Details...] setting is complete, [Preshared Key] or [Printer Certificate] is selected.

Memo:

- Selecting [IPSec Enable] enables [Details...].
- Clicking the [Preshared Key] or [Printer Certificate] button does not enable you to change the settings.

■ [Details...] button

Displays the [IPSec Setting] screen.

Downloads files required for IPSec authentication to the printer.

■ Sync Time

Clicking the [Sync Time] button sends out the current time of the PC to the printer. You can specify this setting via USB or network connection.

■ Encrypted communication by IPSec

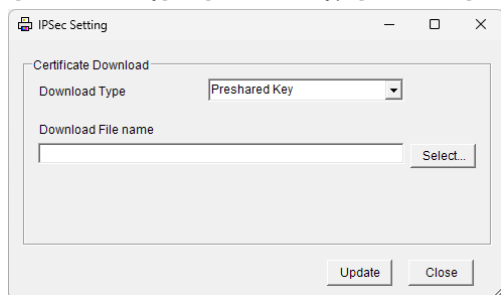
Refer to the table below on whether encrypted communication by IPSec can be performed.

Printer Settings	IPSec Policy of PC		
	Security Required	Request for Security	Not Protected
Disable IPSec	Communication disabled	Normal communication	Normal communication
Enable IPSec (When authentication fails)	Communication disabled		
Enable IPSec (When authentication is successful)	Encrypted communication	Encrypted communication	Communication disabled

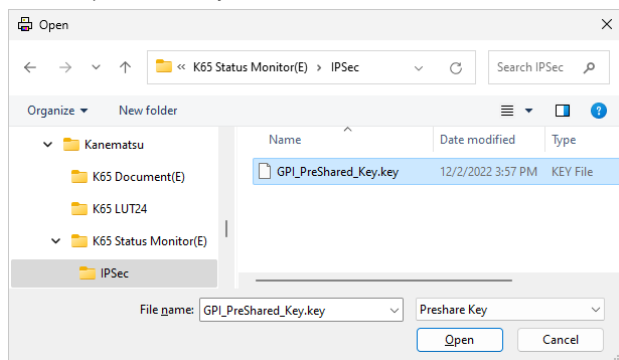
■ File settings required for preshared key authentication

A preshared key file is required for preshared key authentication.

- 1 Select [Preshared Key] for [Download Type], and click [Select...]



- 2 Select a preshared key file

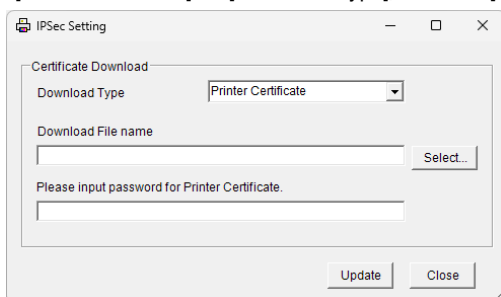


- 3 Click the [Update] button on the [IPSec Setting] screen

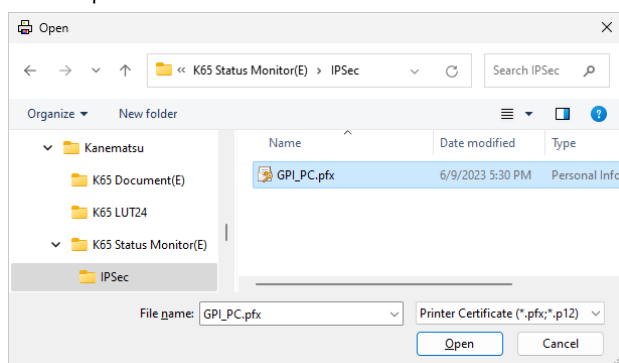
■ File settings required for certificate authentication

Certificate files for the printer as well as from the certification authority are required for certificate authentication.

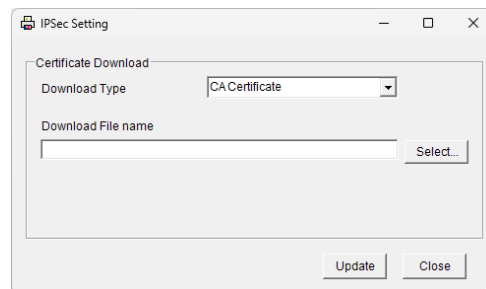
- 1 Select [Printer Certificate] for [Download Type], and click [Select...]



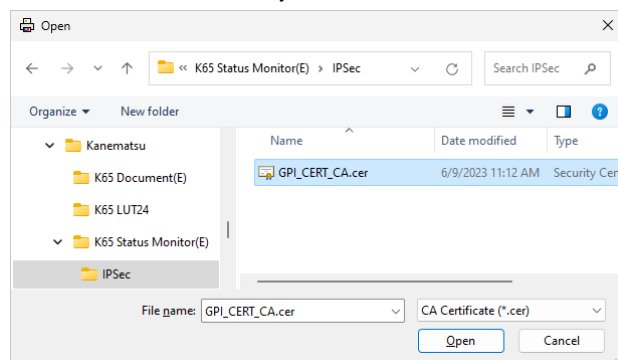
- 2 Select a printer certificate file



- 3 Enter the password in [Please input password for Printer Certificate], and click [Update]
- 4 Select [CA Certificate] for [Download Type], and click [Select...]



- 5 Select a certification authority certificate file



- 6 Click the [Update] button on the [IPSec Setting] screen

■ Other Network Setting

■ Session Timeout

For setting the time interval before disconnecting automatically if there is no communication after printing connection is established. The default setting is [None].

■ MAC Address

Displays the MAC address of the printer.

■ [Update] button

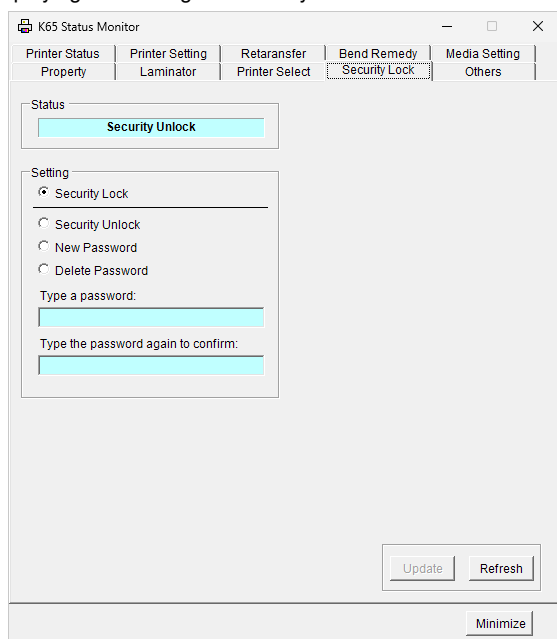
Applies the selected value to the printer.

■ [Refresh] button

Displays the printer settings on the screen.

[Security Lock] Tab

For displaying and setting the Security Lock status.



■ Status

Displays the current Security Lock status.

■ Setting

• [Security Lock]

Select [Security Lock], followed by clicking [Update] to activate the Security Lock.

The Security Lock cannot be activated if a password is not specified.

• [Security Unlock]

Select [Security Unlock], enter the password in [Type a password], followed by clicking [Update] to deactivate the Security Lock.

• [New Password]

Select [New Password], and enter a password of up to eight characters.

Enter the same password for [Type a password] and [Type the password again to confirm], followed by clicking [Update] to set the password.

• [Delete Password]

Select [Delete password], enter the password in [Type a password], followed by clicking [Update] to delete the password.

Memo:

- To change the password, you have to delete it and register a new password again.
- If you forgot the password, please consult our authorized dealer or the service engineer.
- There is no relation between the password for the status monitor and the security number that is input on the operation panel of the printer. You can specify different values for these items. The password for the status monitor supports alphanumeric characters.

["Security Lock" \(page 49\)](#)

■ [Update] button

Applies the selected value to the printer.

■ [Refresh] button

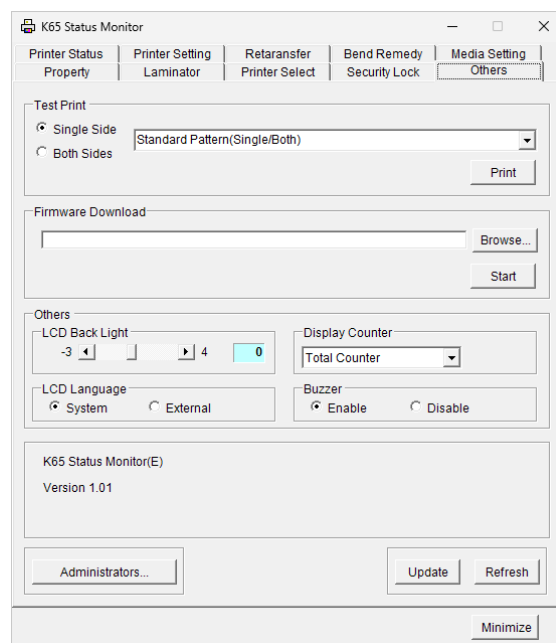
Displays the printer settings on the screen.

[Others] Tab

This tab enables you to perform test prints and download the firmware.

Memo:

- For printers connected via Ethernet (LAN), the test print and firmware download items are not displayed.



■ Test Print

Test print uses the printer's self-diagnosis function without making use of the printer driver. You can use it to verify whether the printer is functioning correctly.

- ① Select [Single Side] or [Both Sides]
 - ② Select a print pattern, and click [Print]
- Test print starts. Printing on both sides is possible only when [Standard Pattern] is selected.

■ Firmware DownLoad

Updates the printer's firmware and laminator's firmware.

- ① Select a file from [Browse...], and click [Start]
- ② Follow the instructions on the screen

Cautions:

- For details on update of the printer's firmware, please consult the service engineer or our authorized dealers.
- The printer or laminator may not start up if update of the firmware fails.

■ Others

■ LCD Back Light

For setting the brightness of the printer's operation panel.

■ LCD Language

For setting the LCD Language of the printer's operation panel.
Selecting [System] displays text on the Operation panel using the printer unit's built-in font.

Selecting [External] displays text on the Operation panel using a different font that was downloaded.

Cautions:


- For details on how to download fonts, please consult the service engineer or our authorized dealers.

■ Display Counter

This is used for setting the type of counter to be displayed on the printer's operation panel.

For more details, refer to "[Counter Types](#)" ([page 54](#)) under "Setting Using the Operation Panel".

■ Buzzer

For setting the warning sound when an error occurs or when the cards run out, as well as the confirmation sound upon pressing  on the operation panel of the printer unit.

The buzzer does not sound when [Disable] is selected. The default setting is [Enable].

■ Software

Displays the version and copyright information.

■ [Administrators...] button

Opens the [Administrators] dialog box.

"[\[Administrators\] Dialog Box](#)" ([page 94](#))

Cautions:

- The [Administrators...] button displays only when the status monitor is run with administrator authority.
"[Executing the Status Monitor](#)" ([page 81](#))

■ [Update] button

Applies the selected value to the printer.

■ [Refresh] button

Displays the printer settings on the screen.

[Administrators] Dialog Box

"Non-administrative user" can set [Printer Setting] etc. when the functions or tabs are checked in the [Administrators] dialog box.



■ Non-administrative User Settings

Selected functions can be set by checking the checkbox.

■ Print Counter Clear

The [Clear] button of the print counter in the [Printer Status] Tab enables.

■ Printer Setting - Tab

The settings in the [Printer Setting] Tab enables.

■ Retransfer - Tab

The settings in the [Retransfer] Tab enables.

■ Bend Remedy - Tab

The settings in the [Bend Remedy] Tab enables.

■ Media Setting - Tab

The settings in the [Media Setting] Tab enables.

■ Laminator - Tab

The settings in the [Laminator] Tab enables.

■ Printer Select - Tab

The settings in the [Printer Select] Tab enables.

■ Security Lock - Tab

The settings in the [Security Lock] Tab enables.

■ Others - Tab

The settings in the [Others] Tab enables.

■ Test Print

The [Test Print] in the [Others] Tab enables.

■ Firmware Download

The [Firmware DownLoad] in the [Others] Tab enables.

■ No caution screen upon starting up

When a user without administrator authority runs the status monitor, the caution screen will not be displayed initially.

"[Executing the Status Monitor](#)" ([page 81](#))

Cautions:

- When specifying as a user without administrator authority, the "Registering for the IPv4 address" and "Registering for the IPv6 address" items are not saved in the status monitor. To save the settings, log in as a user with administrator authority.

■ [Update] button

Applies the selected value to the status monitor.

■ [Close] button

Closes the [Administrators] dialog box.

Inline Encoding

Inline Encoding Format

- Inline encoding can be performed by enabling the settings in the [Encode] tab of the printer driver settings.
["\[Encode\] Tab"](#) (☞ [page 67](#))
- Encoding data can be sent to the printer through the printer driver using the special character strings (prefixes) described below. This function is called "inline encoding".
- Set the methods of inline encoding in the "Inline Encoding" of the [Encode] tab.
- This method functions for only ISO Magnetic encoding data. The default encoding is encoded without the ISO Magnetic encoding.

Cautions:

- Character strings may not be recognized as encoding data if they are processed as graphics, such as screen captures. Processing of character strings is dependent on the application software in use.
- Enter the inline encoding character strings in the first image of each card to be printed.

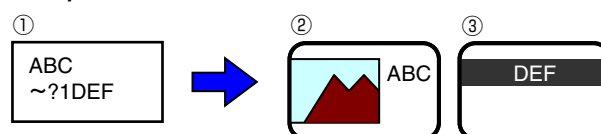
■ Default encoding

- Adding a prefix (tilde (~), ?, or numeric characters) at the beginning of a text string enables the string to be recognized as encoding data. Character strings including prefixes are not printed on the card when they are recognized as encoding data.

No.	Prefix (half-width character string)	Text string following prefix ①	Usable character code list ②	Max. string length ③
1	~?0	String denotes JIS 2 magnetic encoding data. ④	7-unit code	69
2	~?1	String denotes ISO track 1 magnetic encoding data.	6-unit code	76
3	~?2	String denotes ISO track 2 magnetic encoding data.	4-unit code	37
4	~?3	String denotes ISO track 3 magnetic encoding data.	4-unit code	104
5	~?4	Contact IC encoding data.	8-unit code	32760
6	~?5	Non-contact IC encoding data.	8-unit code	32760
7	~?6	String denotes ISO track 1 magnetic encoding data.	7-unit code	69
8	~?7	String denotes ISO track 3 magnetic encoding data.	7-unit code	69
9	~?8	String denotes ISO track 1 magnetic encoding data (AAMVA standard).	6-unit code	79
10	~?9	String denotes ISO track 3 magnetic encoding data (AAMVA standard).	6-unit code	79

- ① Make sure that the string is not broken, and use the same font.
- ② Encoding cannot be performed correctly if characters that do not conform with the usable character code list are used.
- ③ The maximum string length is the number of characters including control codes and excluding prefixes.
- ④ Half-width katakana characters can be used. For a list of usable characters, refer to the Katakana Character Code List.

■ Example



- ① Textbox character strings of application software
- ② Character string to be printed on card
- ③ Encoding data to be sent to ISO track 1

■ Type B encoding

- Adding a prefix (tilde(~), numeric characters or start sentinel) at the beginning of a text string enables the string to be recognized as encoding data. Character strings including prefixes are not printed on the card when they are recognized as encoding data.
- The start sentinel (Refer to the "Character Code List") determines the unit code.
["Character Code List"](#) (☞ [page 96](#))
- The end sentinel (Refer to the "Character Code List") is needed at the last of the character string.
["Character Code List"](#) (☞ [page 96](#))

No.	Prefix (half-width character string)	Text string following prefix ①	Usable character code list ②	Last character
1	~1 start sentinel	String denotes ISO track 1 magnetic encoding data.	6-unit code 7-unit code	End sentinel
2	~2 start sentinel	String denotes ISO track 2 magnetic encoding data.	4-unit code	End sentinel
3	~3 start sentinel	String denotes ISO track 3 magnetic encoding data.	4-unit code 6-unit code 7-unit code	End sentinel

- ① Make sure that the string is not broken, and use the same font.
- ② Encoding cannot be performed correctly if characters that do not conform with the usable character code list are used.

■ Type C encoding

- Adding a prefix (tilde(~), numeric characters or "=") at the beginning of a text string enables the string to be recognized as encoding data. Character strings including prefixes are not printed on the card when they are recognized as encoding data.

No.	Prefix (half-width character string)	Text string following prefix ①	Usable character code list ②	Max. string length ③
1	~1=	String denotes ISO track 1 magnetic encoding data.	6-unit code	76
2	~2=	String denotes ISO track 2 magnetic encoding data.	4-unit code	37
3	~3=	String denotes ISO track 3 magnetic encoding data.	4-unit code	104

- ① Make sure that the string is not broken, and use the same font.
- ② Encoding cannot be performed correctly if characters that do not conform with the usable character code list are used.
- ③ The maximum string length is the number of characters including control codes and excluding prefixes.

Character Code List

ASCII character code list

- Below is the list of usable ASCII character codes. Specify the text string to encode using the usable half-width characters for each of the unit codes.

				b7	0	0	0	0	1	1	1	1	
				b6	0	0	1	1	0	0	1	1	
				b5	0	1	0	1	0	1	0	1	
b4	b3	b2	b1		0	1	2	3	4	5	6	7	
0	0	0	0	0			0	@	P	`	p	①	
0	0	0	1	1			!	1	A	Q	a	q	
0	0	1	0	2			"	2	B	R	b	r	②
0	0	1	1	3			#	3	C	S	c	s	
0	1	0	0	4			\$	4	D	T	d	t	③
0	1	0	1	5			%	5	E	U	e	u	
0	1	1	0	6			&	6	F	V	f	v	
0	1	1	1	7			'	7	G	W	g	w	
1	0	0	0	8			(	8	H	X	h	x	
1	0	0	1	9			)	9	I	Y	i	y	
1	0	1	0	A	LF		*	:	J	Z	j	z	
1	0	1	1	B			+	;	K	[	k	{	
1	1	0	0	C			,	<	L	\	l	|	
1	1	0	1	D			-	=	M	]	m	}	
1	1	1	0	E			.	>	N	^	n	~	④
1	1	1	1	F			/	?	O	_	o	DEL	

- ① Range of usable text characters for 7-unit code
- ② Range of usable text characters for 6-unit code
- ③ Range of usable text characters for 4-unit code
- ④ Tilde character (Hexadecimal: 7E)

- The start sentinel and end sentinel listed below cannot be used in the encoding data.

Unit Code	Start Sentinel	(Hexa-decimal)	End Sentinel	(Hexa-decimal)
4-unit code	;	(3B)	?	(3F)
6-unit code	%	(25)	?	(3F)
7-unit code	DEL	(7F)	DEL	(7F)

Katakana character code list

- Below is the list of usable Katakana character codes. Specify the Katakana string to encode using the usable half-width characters for 7 unit code of JIS 2.

				b8	1	1	1	1	1	1	1	1
				b7	0	0	0	0	1	1	1	1
				b6	0	0	1	1	0	0	1	1
				b5	0	1	0	1	0	1	0	1
b4	b3	b2	b1		0	1	2	3	4	5	6	7
0	0	0	0	0				ー	タ	ミ		①
0	0	0	1	1				。ア	チ	ム		
0	0	1	0	2				「イ	ツ	メ		
0	0	1	1	3				」ウ	テ	モ		
0	1	0	0	4				、エ	ト	ヤ		
0	1	0	1	5				・オ	ナ	ユ		
0	1	1	0	6				ヲカ	ニ	ヨ		
0	1	1	1	7				ァキ	ヌ	ラ		
1	0	0	0	8				ィク	ネ	リ		
1	0	0	1	9				ゥケ	ノ	ル		
1	0	1	0	A				ェコ	ハ	レ		
1	0	1	1	B				ォサ	ヒ	ロ		
1	1	0	0	C				ャシ	フ	ワ		
1	1	0	1	D				ュス	ヘ	ン		
1	1	1	0	E				ョセ	ホ	°		
1	1	1	1	F				ッソ	マ	°		

- ① Range of usable text characters

List of Error Codes

Printer (Error Code: 0x01000000 – 0x01040000)

No.	Error Code	Description	Actions (Reference Page No.)
1	0x0102D000	Cards have run out.	Replenish the cards. (page 16)
		The card hopper is detached.	Install the card hopper. (page 17)
2	0x0102D100	The printer door is open.	Please initialize the printer after closing the door. (page 48)
		The cleaning unit is detached.	Install the cleaning unit. (page 101)
3	0x0102D300	The printer is busy.	—
	0x0102D400		
	0x0102D500		
4	0x0102D700	It fails to change to Transport mode.	Retransfer film is loaded. Please set the transport mode according to the instructions provided. (page 57)
5	0x0102D900	It fails to start cleaning.	The following are possible causes: • Retransfer film is loaded. • The card hopper is installed. • The temperature of the retransfer heat roller is too high. Clean the rollers according to the instructions provided. (page 103)
6	0x0102DA00	Preheating is in progress.	Wait until preheating is complete.
7	0x0102DB00	Printer is initializing.	Wait until initialization is complete.
8	0x0102DC00	Offline testing is in progress.	Wait until the offline test is complete.
		Cleaning is in progress.	Wait until cleaning is complete.
9	0x0102DD00	Operation panel is currently in use.	—
		The printer is in the transport mode.	Cancel the transport mode. (page 58)
10	0x0102DE00	The firmware cannot be downloaded.	Set the printer to the download mode. (page 52)
11	0x0102FD00	The printer is in the Power Saving mode.	Initializing printer, or Deactivating the Power Save mode. (page 51) The printer resets automatically when the printer driver is used to start printing.
12	0x0102FE00	Password authentication is not complete.	—
13	0x0102****	The printer is not ready.	—
14	0x01039000	Failure occurred during card loading.	Remove the card according to the procedure for the "Error Message: Jam (Hopper) 9000". (page 110)
15	0x01039100	Card jam near the card turn over unit.	Remove the card according to the procedure for the "Error Message: Jam(TurnOver) 9100". (page 111)
16	0x01039300	Card jam near the card feed roller.	Remove the card according to the procedure for the "Error Message: Jam (Transfer) 9300". (page 113)
17	0x01039400	Card jam near the card outlet.	Remove the card according to the procedure for the "Error Message: Jam (Discharge) 9400". (page 114)
18	0x01039500	Card jam near the retransfer heating roller.	Remove the card according to the procedure for the "Error Message: Jam (Retransf.) 9500". (page 115)
19	0x0103A100	Retransfer film is broken.	Repair the retransfer film. (page 120)
		Retransfer film is not detected.	Install the retransfer film correctly. (page 15)
20	0x0103AD00	An error has occurred during magnetic encoding data writing.	Check the card specifications.
21	0x0103AE00	An error has occurred during magnetic encoding data reading.	
22	0x0103B000	An incorrect ink ribbon is installed.	Install a correct ink ribbon.
23	0x0103B100	Ink ribbon is broken.	Repair the ink ribbon. (page 119)
		Ink ribbon is not detected.	Install the ink ribbon correctly. (page 14)
24	0x0103****	A media error has occurred.	Check the card specifications.

Printer (Error Code: 0x01040000 – 0x02000000)

No.	Error Code	Description	Actions (Reference Page No.)
25	0x01044400	A hardware error has occurred.	Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.
26	0x0104AB00	An error has occurred in the mechanical component of the magnetic encoder.	
27	0x0104AC00	A hardware error has occurred in the magnetic encoder.	
28	0x0104C100	A heating roller operation error has occurred.	
29	0x0104C200	The temperature of the bend remedy heating roller or retransfer heating roller is too high.	
30	0x0104C300	An internal 24v instantaneous interruption is detected.	
31	0x0104D800	A hardware error has occurred during initialization.	
32	0x0104F000	The temperature of the retransfer heating roller is too high.	
33	0x0104F100	The retransfer heating roller is faulty.	
34	0x0104F200	The thermistor of the retransfer heating roller is faulty.	
35	0x0104F300	The temperature of the bend remedy heating roller is too high.	
36	0x0104F400	The bend remedy unit is faulty.	
37	0x0104F500	The thermistor of the bend remedy heating roller is faulty.	
38	0x0104F600	The operating ambient temperature of the printer is too low.	"Check the Operating environment conditions." (☞ page 8) If the same problem recurs within the range of Operating environment conditions, turn off the power and consult our authorized dealers.
39	0x0104F800	The temperature of the thermal head is too high.	Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.
40	0x0104****	A hardware error has occurred.	
41	0x01051A00 0x01052000	Printer command is incorrect.	Please consult our authorized dealers.
42	0x01052100	A Security-Key has already been set. A new Security-Key cannot be specified.	—
43	0x01052200	Entry does not match the preset Security-Key.	—
44	0x01052300	Security-Key has not been specified. The Security Lock function is not enabled.	—
45	0x01052400 0x01052600	Printer command is incorrect.	Please consult our authorized dealers.
46	0x01052700	Ink ribbon specification is incorrect.	Ensure that the printer driver's ink setting matches the installed ink ribbon. (☞ page 59)
47	0x01052A00	Printer command is incorrect.	Please consult our authorized dealers.
48	0x01052B00	Magnetic encoding data is incorrect.	Check the card specifications.
49	0x01052C00	IC encoder is not installed.	—
50	0x01052D00	Magnetic encoder is not installed.	—
51	0x01052E00	Optional devices are not installed.	—
52	0x0105**** 0x010B****	A command error has occurred.	Please consult our authorized dealers.
53	0x0142A200	Retransfer film has run out.	Replace with a new one. (☞ page 15)
54	0x0142B200	Ink ribbon has run out.	Replace with a new one. (☞ page 14)

Printer Driver (Error Code: 0x02000000 – 0x05000000, 0x09000000 –)

No.	Error Code	Description	Actions (Reference Page No.)
1	0x02*****	Printer is not found.	Check the printer connection.
2	0x0300274D	Printer is not found.	Check the printer connection.
		Printing using a USB-connected printer cannot be performed via Ethernet (LAN) connection.	To print via Ethernet (LAN) connection, disconnect the USB cable from the printer. (page 13)
3	0x03*****	Printer is not found.	Check the printer connection.
		A communication error has occurred.	
4	0x04*****	A communication error has occurred.	Check the printer connection.
5	0x09*****	A command error has occurred.	Check the computer settings.
6	0x10000103	An error has occurred during magnetic encoding data writing.	Check the card specifications.
7	0x10000201	Contact IC encoding program is not found.	Please consult our authorized dealers.
8	0x10000202	Unable to establish communication with the contact IC encoder.	
9	0x10000203	An error has occurred during contact IC encoding data writing.	Check the card specifications.
10	0x10000301	Non-contact IC encoding program is not found.	Please consult our authorized dealers.
11	0x10000302	Unable to establish communication with the noncontact IC encoder.	
12	0x10000303	An error has occurred during non-contact IC encoding data writing.	Check the card specifications.
13	0x10000401	User program is not found.	Please consult our authorized dealers.
14	0x10000403	An error is returned for the user program.	
15	0x10000501	Magnetic encoding program is not found.	
16	0x10000503	An error has occurred during magnetic encoding data writing.	Check the card specifications.
17	0x10000504	An error has occurred during magnetic encoding data reading.	
18	0x10000505	A magnetic encoding command error has occurred.	Please consult our authorized dealers.
19	0x10000601	End notification program is not found.	
20	0x10000603	An error is returned for the end notification program.	
21	0x10001001	Ink ribbon cannot be recognized.	Ensure that the printer driver's ink setting matches the installed ink ribbon. (page 59)
22	0x10001002	Ink ribbon specification is incorrect.	
23	0x10001003	IC encoder is not installed.	—
24	0x10001004	Magnetic encoder is not installed.	—
25	0x10002000	Printer is not found.	Check the printer connection.
26	0x1000200*	The printer is not ready.	—
27	0x10003000	The specified LUT file is not found.	Check the [Look up table] settings of the printer driver.
28	0x10003001	The specified LUT file cannot be opened.	
	0x10003002		
29	0x10003004	The specified UV file is not found.	Check the [UV ink] settings of the printer driver.
30	0x10003005	The specified UV file cannot be opened.	
	0x10003006		

Laminator (Error Code: 0x05000000 – 0x06000000)

No.	Error Code	Description	Actions
1	0x05000050	Failure occurred during card loading.	Check to ensure that the laminator is properly connected to the card printer. Remove the card.
2	0x05000051	Card jam near the card feed roller.	The temperature of the heating roller may be too high, or the card transfer speed may be too slow. For details on adjusting optimum settings, please consult our authorized dealers. Remove the jammed card.
3	0x05000052	Card jam near the card outlet.	
4	0x05000053	Top side film has run out.	Replace the laminate film with a new one.
5	0x05000054	Bottom side film has run out.	
6	0x05000055	Top side film is broken or is not detected.	Check to ensure that the laminate film is correctly set. Check to ensure that the type of laminate film in use and the settings are appropriate.
7	0x05000056	Bottom side film is broken or is not detected.	
8	0x05000057	Mark on top side film is not detected.	Check to ensure that the laminate film is correctly set.
9	0x05000058	Mark on bottom side film is not detected.	
10	0x05000059	The laminator door is open.	Close the laminator door. If initialization does not start even after closing the laminator door, press the operation button to initialize.
11	0x0500005A	The film cassette is detached.	Insert the film cassette for the side to be laminated.
12	0x05000060	Thermostat is broken.	Turn off the power and turn it on again. If the same problem occurs, consult our authorized dealers or service engineer.
13	0x05000061	The temperature of the top side Heat Roller is too high.	
14	0x05000062	The temperature of the bottom side Heat Roller is too high.	
15	0x05000063	The internal temperature of the top side Heater is too high.	
16	0x05000064	The internal temperature of the bottom side Heater is too high.	
17	0x05000065	A hardware error has occurred in the top side Heat Roller.	
18	0x05000066	A hardware error has occurred in the bottom side Heat Roller.	
19	0x05000067	The thermistor of the top side Heat Roller is faulty.	
20	0x05000068	The thermistor of the bottom side Heat Roller is faulty.	
21	0x0500006B	A cam error has occurred in the top side Heat Roller.	
22	0x0500006C	A cam error has occurred in the bottom side Heat Roller.	
23	0x0500006D	The operating ambient temperature of the laminator is too low.	Use the laminator within the prescribed range. When starting up the laminator in a low temperature environment, the temperature of the interior may remain low even though the surrounding temperature has gone up. Turn on the power again after waiting for about one hour.
24	0x0500006E	A hardware error has occurred in the top side Film Supply Encoder.	Turn off the power and turn it on again. If the same problem occurs, consult our authorized dealers or service engineer.
25	0x0500006F	A hardware error has occurred in the bottom side Film Supply Encoder.	
26	0x05000070	A hardware error has occurred in the top side Film Takeup Encoder.	
27	0x05000071	A hardware error has occurred in the bottom side Film Takeup Encoder.	
28	0x0500007D	Other error is detected.	

Request for routine servicing

- In order to prevent printing errors and malfunctions from occurring in advance, please request for routine servicing by the service engineer. For details on servicing, please consult our authorized dealers.

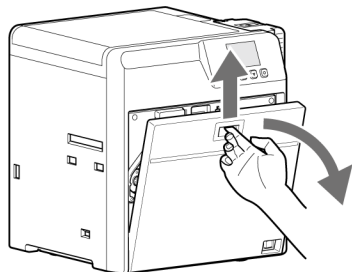
Cleaning Roller

- The function of the cleaning roller is to remove any dirt or dust attached to the card.
- The color of the printed card may appear faded or dirt may appear conspicuous if the cleaning roller is dirty. Card jams may also occur as a result.

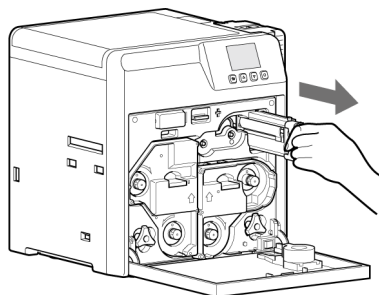
Cautions:

- If the Security Lock is on, deactivate it. After work is complete, activate the Security Lock again.
- Start work after ensuring that the power has been turned off.
- If the printer is used every day, make sure to clean the cleaning roller daily at the end of the operation.
- Do not perform any work on the printer door. Do not place heavy objects or apply load on the printer. Doing so may damage it.
- Do not wash the cleaning roller with anything other than water or alcohol.
- After washing, allow the cleaning roller to dry completely before installing it to the printer.
- Replace the cleaning unit with a new one after using it for about one year. For details on its replacement, please consult our authorized dealers.
- After cleaning is complete, check to ensure that all dismantled parts are restored to their original positions. Failure to restore the parts may result in malfunction of the printer.

1 Open the printer door

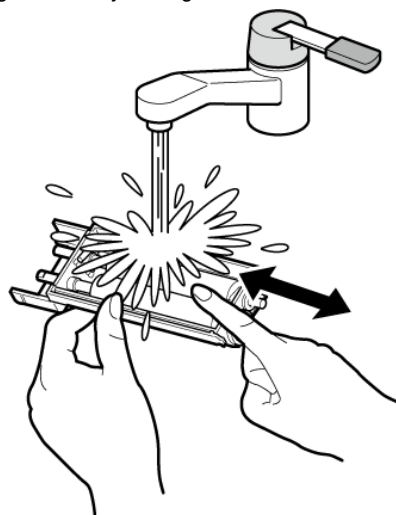


2 Remove the cleaning unit

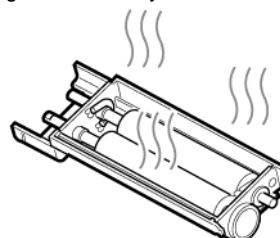


3 Wash the cleaning roller with water

- Wash the roller with water, and remove any dirt from the surface of the cleaning roller with your finger.

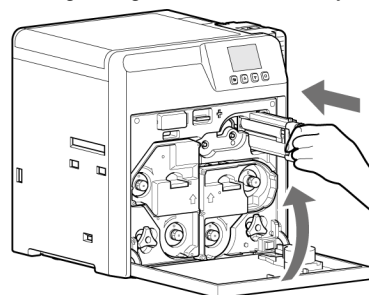


4 Allow the cleaning roller to air dry



5 Set the cleaning unit, and close the printer door

- With the roller facing the right, insert it all the way in.



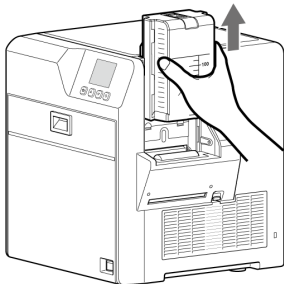
Card Load Roller

- Card jams may occur if the card load roller is dirty.

Cautions:

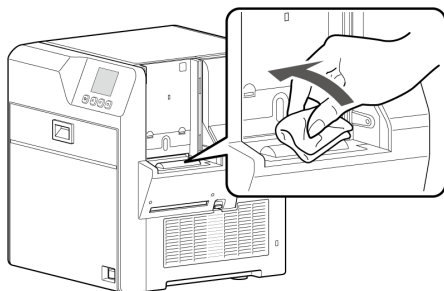
- If the Security Lock is on, deactivate it. After work is complete, activate the Security Lock again.
- Start work after ensuring that the power has been turned off.
- After cleaning is complete, check to ensure that all dismantled parts are restored to their original positions. Failure to restore the parts may result in malfunction of the printer.
- For details on separately sold items, please consult our authorized dealers.

1 Remove the card hopper

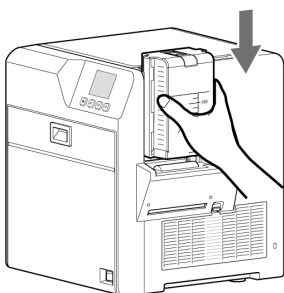


2 Apply alcohol (sold separately) to a wiper (sold separately), and use it to wipe the surface of the card load roller

- Wipe while turning the card load roller in the anti-clockwise direction.



3 Install the card hopper



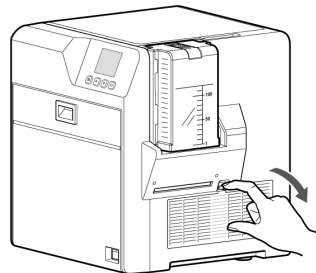
Fan Filter

- The color of the printed card may appear faded or dirt may appear conspicuous if the fan filter is dirty.
- Perform cleaning after printing about 10,000 cards.

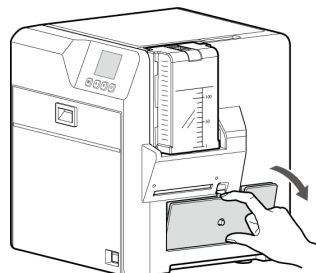
Cautions:

- Start work after ensuring that the power has been turned off.
- After cleaning is complete, check to ensure that all dismantled parts are restored to their original positions. Failure to restore the parts may result in malfunction of the printer.
- Replace the fan filter with a new one after using it for about one year. For details on its replacement, please consult our authorized dealers.

1 Remove the filter cover located on the side of the printer

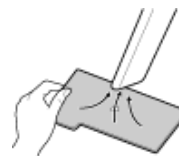


2 Remove the fan filter

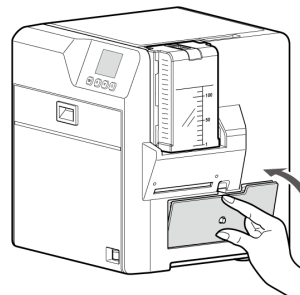


3 Remove any dirt that is attached to the fan filter using a vacuum cleaner

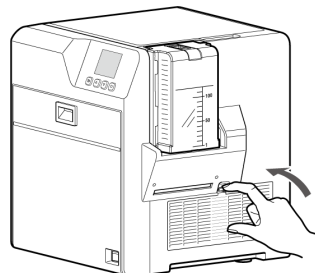
- Hold the filter with your hand to prevent it from being sucked into the vacuum cleaner.



4 Set the fan filter



5 Set the filter cover

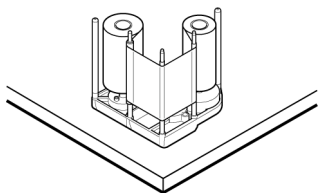


Card Feed Roller / Heating Roller

- The color of the printed card may appear faded or dirt may appear conspicuous if the card feed roller or heating roller is dirty.
- Perform cleaning after printing about 1,000 cards.

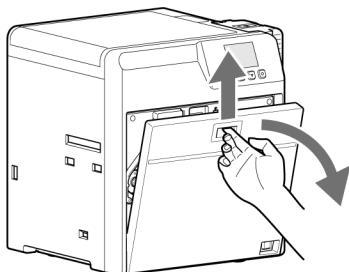
Cautions:

- If the Security Lock is on, deactivate it. After work is complete, activate the Security Lock again.
- Before cleaning the card feed roller and heating roller, make sure that you clean the cleaning roller. Otherwise, dirt on the cleaning roller may be attached to the cleaning card, causing its cleaning capability to deteriorate.
- Stand the cassette on a flat surface as illustrated in the diagram. Avoid doing so on the floor as dust attached to it may cause printing errors.

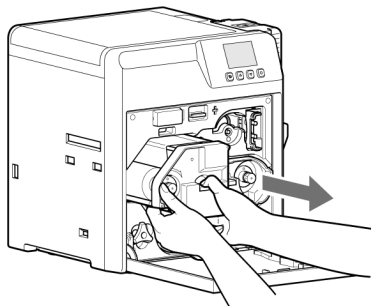


- If card jam occurs when the cleaning card is inserted, turn off and on the power of the printer. Doing so automatically discharges the card.
- Do not perform any work on the printer door. Do not place heavy objects or apply load on the printer. Doing so may damage it.
- Each cleaning card can only be used once. Reusing a dirty card may dirty the roller or cause the printer to malfunction.
- After cleaning is complete, check to ensure that all dismantled parts are restored to their original positions. Failure to restore the parts may result in malfunction of the printer.
- For details on separately sold items, please consult our authorized dealers.

- 1 Make sure that the printer is powered off
- 2 Open the printer door

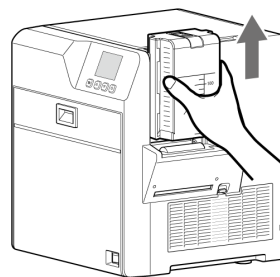


- 3 Press and hold down the cassette button, and remove the retransfer film cassette (on the left)

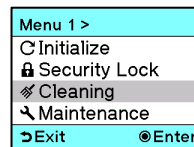


- 4 Close the printer door

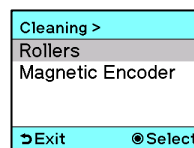
- 5 Remove the card hopper



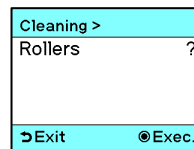
- 6 Turn on the power
- 7 When [Film Search] appears, press \odot Menu
 - Enter the [Menu].
- 8 Press ∇ or \triangle , select [Cleaning], and then press \odot Enter



- 9 Select [Rollers] and then press \odot Select



- A [Rollers ?] message appears.



- 10 Peel off the backing paper from the cleaning card (sold separately)



- 11 Press \odot Exec.

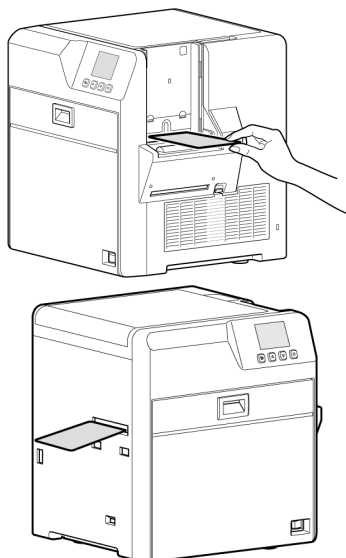
- A [Cleaning...] message appears.

Cautions:

- If the retransfer heating roller is hot, a [tooHot (Clean)] message will be displayed. Turn off the power, and perform cleaning after the retransfer heating roller has cooled down completely.
- If the card hopper is still installed, the message [Card? (Clean)] will be displayed. Please remove the card hopper.
- If the retransfer film cassette is still installed, the message [Film? (Clean)] will be displayed. Please remove the retransfer film cassette.

12 Insert the cleaning card (sold separately) within 20 seconds

- The roller draws in the card, and cleaning starts automatically.



Cautions:

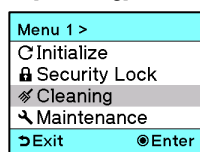
- Insert the card within 20 seconds after pressing **Exec.**
- After press **Exec.**, the buzzer sounds upon a lapse of 20 seconds, and a [Jam(Hopper)] error message appears about 10 seconds later. Press **Init.** → **Select** to cancel the error.
- When a standard-sized card is inserted, the card is automatically discharged from the NG card outlet.

13 When the cleaning card is ejected, [Film Search] will appear.

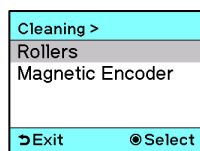
Press **Menu**

- Enter the [Menu].

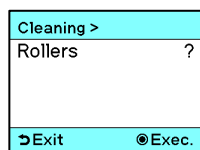
14 Press **▽** or **△**, select [Cleaning], and then press **Enter**



15 Select [Rollers] and then press **Select**



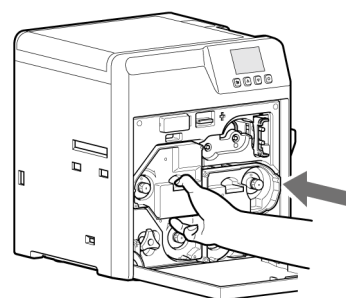
- A [Rollers ?] message appears.



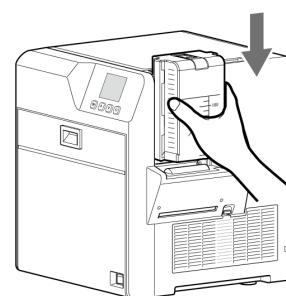
16 Press **Exec.** and insert the cleaning card again

- When reinserting the cleaning card, turn it over so that the sticky side faces the other way.

17 After the cleaning card is discharged, turn off the power, install the retransfer film cassette



18 Close the printer door, and install the card hopper



- To turn on the power again, do so after an interval of at least 10 seconds.

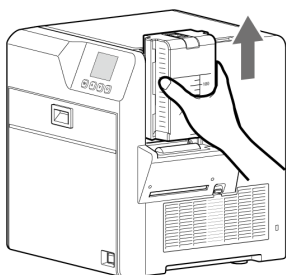
Magnetic Head

- If the magnetic head is dirty, errors may occur during writing to or reading of the magnetic stripe card.
- Clean the magnetic head after approximately every 1,000 cards.

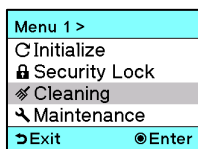
Cautions:

- If the Security Lock is on, deactivate it. After work is complete, activate the Security Lock again.
- Before cleaning the magnetic head, make sure that you clean the cleaning roller. Otherwise, dirt on the cleaning roller may be attached to the cleaning card, causing its cleaning capability to deteriorate.
- After cleaning is complete, check to ensure that all dismantled parts are restored to their original positions. Failure to restore the parts may result in malfunction of the printer.
- Do not perform any work on the printer door. Do not place heavy objects or apply load on the printer. Doing so may damage it.
- For details on separately sold items, please consult our authorized dealers.
- Replace the magnetic head cleaning card accordingly if it has become dirty. Using a dirty card may dirty the head and cause malfunction.

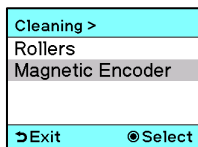
- 1 Turn on the power
- 2 Check to ensure that [Ready] or [Preheating...] is displayed on the operation panel of the printer
- 3 Remove the card hopper



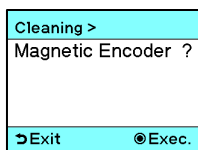
- 4 Press **Menu**
 - Enter the [Menu]
- 5 Press **▽** or **△**, select [Cleaning], and then press **Enter**



- 6 Press **▽** or **△**, select [Magnetic Encoder], and then press **Select**



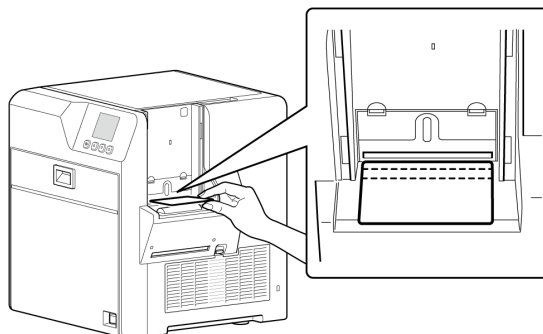
- A [Magnetic Encoder ?] message appears.



- 7 Apply alcohol on the magnetic head cleaning card (sold separately)
 - Apply about three to four drops of alcohol on the position of the magnetic stripe.



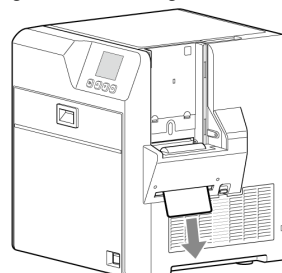
- 8 Press **Exec.**
 - A [Cleaning...] message appears.
- 9 Insert the magnetic head cleaning card within 20 seconds



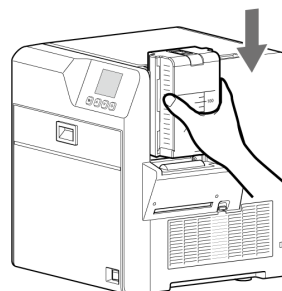
Cautions:

- Insert the card within 20 seconds after pressing **Exec.**
- After pressing **Exec.**, the buzzer sounds upon a lapse of 20 seconds, and a [Jam(Hopper)] error message appears about 10 seconds later.
Press **Init.** → **Select** to cancel the error.

- 10 After the cleaning card is discharged, turn off the power



- 11 Install the card hopper



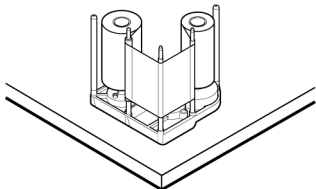
- To turn on the power again, do so after an interval of at least 10 seconds.

Bobbin Holders

- If burrs produced by friction with the bobbins are attached to the bobbin holders, they may fall onto the card, ink ribbon, or retransfer film, causing printing errors.

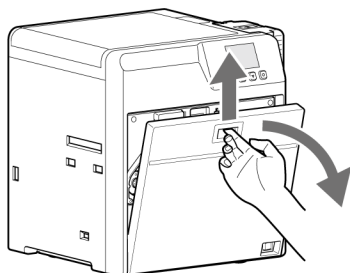
Cautions:

- If the Security Lock is on, deactivate it. After work is complete, activate the Security Lock again.
- Start work after ensuring that the power has been turned off.
- Stand the cassette on a flat surface as illustrated in the diagram. Avoid doing so on the floor as dust attached to it may cause printing errors.

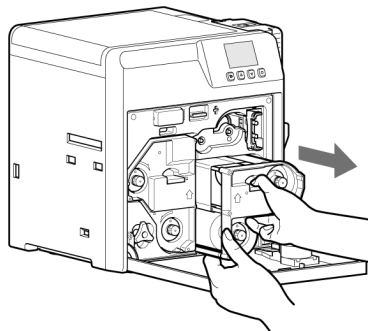


- Do not perform any work on the printer door. Do not place heavy objects or apply load on the printer. Doing so may damage it.
- Perform cleaning each time you replace the ink ribbon or retransfer film.
- After cleaning is complete, check to ensure that all dismantled parts are restored to their original positions. Failure to restore the parts may result in malfunction of the printer.
- For details on separately sold items, please consult our authorized dealers.

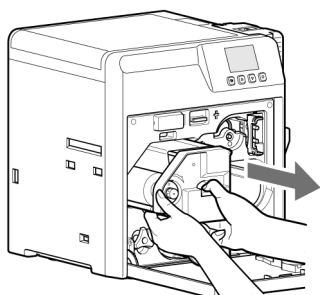
1 Open the printer door



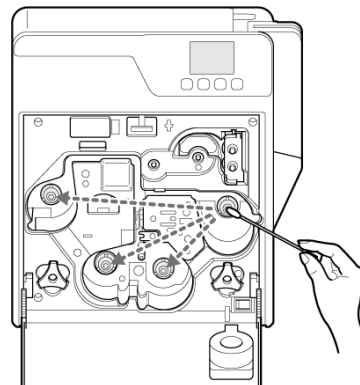
2 Press and hold down the cassette button, and remove the ink ribbon cassette (on the right)



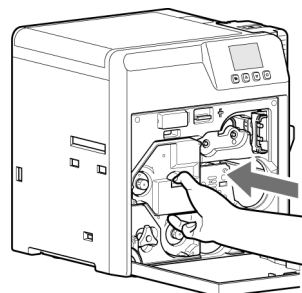
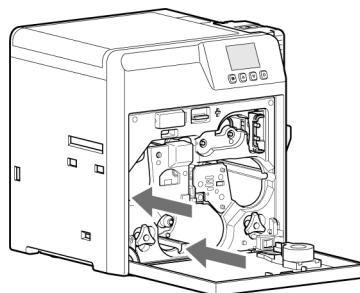
3 Press and hold down the cassette button, and remove the retransfer film cassette (on the left)



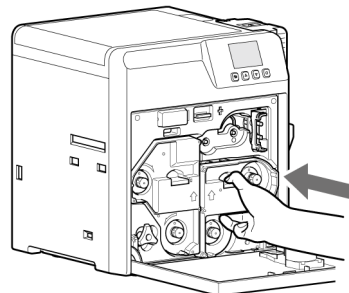
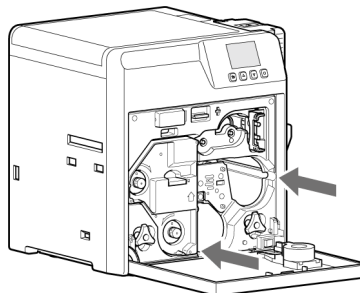
4 Apply alcohol to a cotton swab (large), and use it to wipe the four bobbin holders (Cotton swab and alcohol: sold separately)



5 Insert the retransfer film cassette along the guide rail until a "click" sound is heard



6 Insert the ink ribbon cassette along the guide rail until a "click" sound is heard, followed by closing the printer door

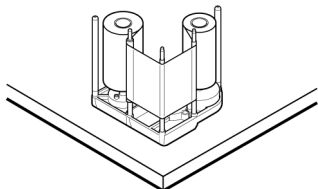


Thermal Head

- Lines may appear on the card after printing if the thermal head is dirty.
- Clean the thermal head after printing about 10,000 images.

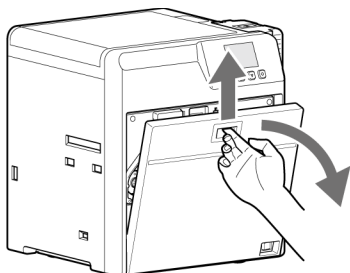
Cautions:

- If the Security Lock is on, deactivate it. After work is complete, activate the Security Lock again.
- Start work after ensuring that the power has been turned off.
- Stand the cassette on a flat surface as illustrated in the diagram. Avoid doing so on the floor as dust attached to it may cause printing errors.

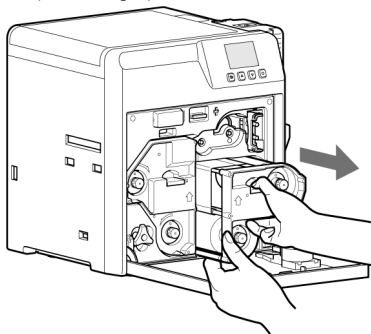


- Do not perform any work on the printer door. Do not place heavy objects or apply load on the printer. Doing so may damage it.
- Touching the thermal head with your body electrostatically charged may cause damage to the head. Make sure that you touch the metallic part of the printer before commencing work.
- Pay attention to prevent metallic objects from knocking against the thermal head. Doing so may damage it.
- After cleaning is complete, check to ensure that all dismantled parts are restored to their original positions. Failure to restore the parts may result in malfunction of the printer.
- For details on separately sold items, please consult our authorized dealers.

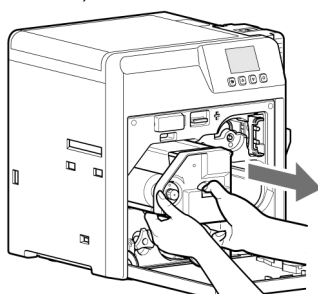
1 Open the printer door



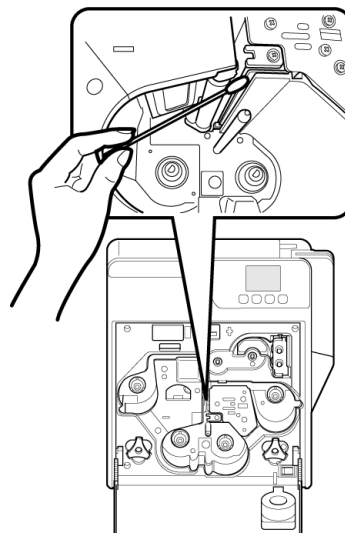
2 Press and hold down the cassette button, and remove the ink ribbon cassette (on the right)



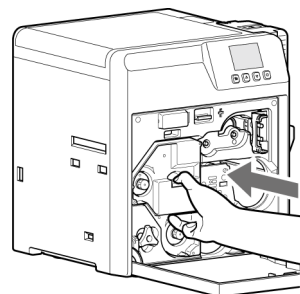
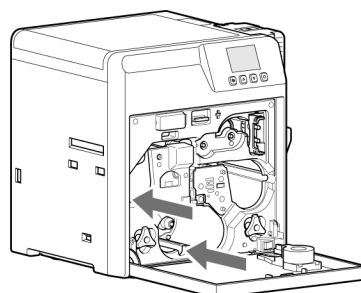
3 Press and hold down the cassette button, and remove the retransfer film cassette (on the left)



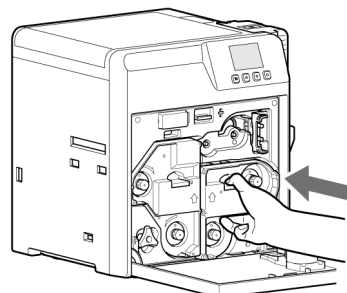
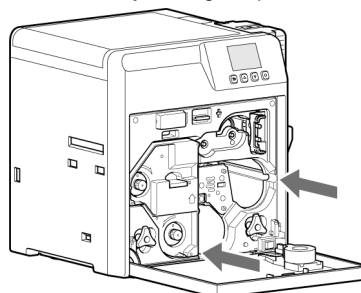
- 4 Apply alcohol to a cotton swab (large), and use it to wipe the thermal head (Cotton swab and alcohol: sold separately)
- Wipe the thermal head with care in the horizontal direction.



5 Insert the retransfer film cassette along the guide rail until a "click" sound is heard

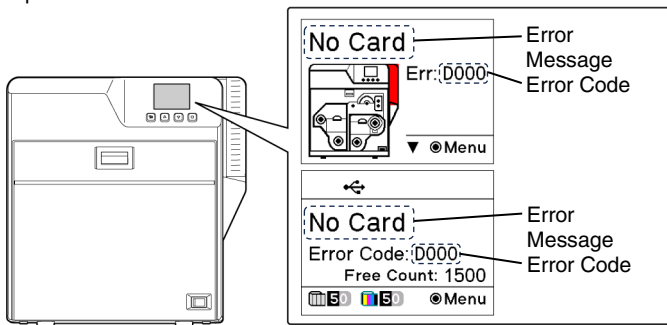


6 Insert the ink ribbon cassette along the guide rail until a "click" sound is heard, followed by closing the printer door



When an Error Message is Displayed

- Check the error message and error code displayed on the operation panel.



List of Error Messages

No Card D000

- Cards have run out.
["Replenish the cards." \(page 16\)](#)
- The card hopper is not installed.
["Install the card hopper." \(page 17\)](#)

Door Open D100

- The printer door is open.
Close the printer door.
- Cleaning unit is not installed.
Install the cleaning unit, close the printer door.

Door Closed D101

- The printer door is closed.
Press **Init.** → **Select** to reset the printer.
["Initializing from the Error Display" \(page 48\)](#)

Jam(Hopper) 9000

- Card jam near the card hopper and cleaning roller.
["Remove the jammed card." \(page 110\)](#)

Jam(Turnover) 9100

- Card jam near the card turn over unit.
["Remove the jammed card." \(page 111\)](#)

Jam(Transfer) 9300

- Card jam in the card feed roller.
["Remove the jammed card." \(page 113\)](#)

Jam(Discharge) 9400

- Card jam near the card outlet.
["Remove the jammed card." \(page 114\)](#)

Jam(Retransf.) 9500

- Card jam near the retransfer heating roller.
["Remove the jammed card." \(page 115\)](#)

Film Search A100

- Retransfer film is broken.
["Repair the retransfer film." \(page 120\)](#)
- Retransfer film is not detected.
["Install the retransfer film correctly." \(page 15\)](#)

Film End A200

- Retransfer film has run out.
["Replace with a new one." \(page 15\)](#)

Ink Error B000

- An incorrect ink ribbon is installed.
Install a correct ink ribbon.

Ink Search B100

- Ink ribbon is broken.
["Repair the ink ribbon." \(page 119\)](#)
- Ink ribbon is not detected.
["Install the ink ribbon correctly." \(page 14\)](#)

Ink End B200

- Ink ribbon has run out.
["Replace with a new one." \(page 14\)](#)

Hardware Err. 4400

- A hardware failure has occurred on the printer.
Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.

MG Mecha. AB00

- An error has occurred in the mechanical component of the magnetic encoder.
Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.

MG Hardware AC00

- A hardware failure has occurred on the magnetic encoder.
Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.

Cam Err. C100

- A heating roller operation error has occurred.
Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.

HR Overheat C200

- The temperature of the bend remedy heating roller or retransfer heating roller is too high.
Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.

Power InterR. C300

- An instantaneous interruption is detected.
Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.

Film?(Transp.) D700

- Since retransfer film is loaded, the transport mode cannot be set.
["Please remove the retransfer film before setting the transport mode." \(page 57\)](#)

Hardware Err. D800

- A hardware error has occurred during initialization.
 Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.

tooHot(Clean) D900

- The retransfer heating roller is too hot to clean the card feed roller and heating roller.
["Turn off the power and wait until the retransfer heating roller has cooled completely before cleaning." \(page 103\)](#)

Film?(Clean) D901

- The retransfer film cassette is installed, so the card feed roller and heating roller cannot be cleaned.
["Please remove the retransfer film cassette before cleaning." \(page 103\)](#)

Card?(Clean) D902

- The card hopper is installed, so the card feed roller and heating roller cannot be cleaned.
["Please remove the card hopper before cleaning." \(page 103\)](#)

TR Overheat F000

- The temperature of the retransfer heating roller is too high.
 Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.

TR Heater F100

- The retransfer heating roller is faulty.
 Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.

TR Thermistor F200

- The retransfer heating roller thermistor is faulty.
 Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.

RR Overheat F300

- The temperature of the bend remedy heating roller is too high.
 Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.

RR Heater F400

- The bend remedy unit is faulty.
 Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.

RR Thermistor F500

- The bend remedy heating roller thermistor is faulty.
 Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.

Overcool F600

- The operating ambient temperature of the printer is too low.
["Check the Operating environment conditions." \(page 8\)](#)
 If the same problem recurs within the range of Operating environment conditions, turn off the power and consult our authorized dealers.

Head Overheat F800

- The temperature of the thermal head is too high.
 Turn off and on the power again. If the same problem recurs, turn off the power and consult our authorized dealers.

Cards

Cards have Run Out

- "Replenish the cards." (page 16)

Card Jam

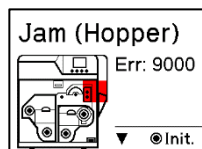
- Error messages are displayed on the operation panel according to the location of the card jam.
- Check the error message, and remove the card according to the corresponding procedure.

Cautions:

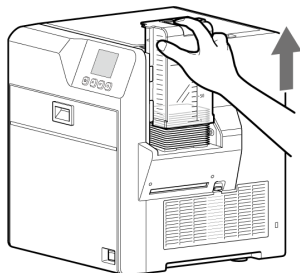
- If the card cannot be removed, do not try to do so forcibly. Consult our authorized dealers or the service engineer.
- If the Security Lock is on, deactivate it. After work is complete, activate the Security Lock again.
- Do not apply excessive force on the card hopper. Doing so may damage it.
- Do not touch the printing surface of the card. Touching it may cause printing errors. Put on the supplied gloves when handling the cards.

Error Message Jam(Hopper) 9000

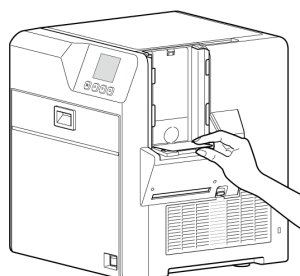
- Card jam near the card hopper and cleaning roller.



- 1 Lift to remove the card hopper cover, and remove the unused cards



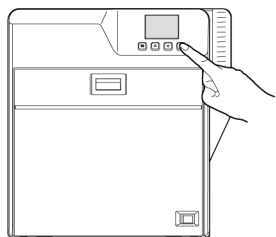
- 2 Remove the jammed card with a hand



"If the card cannot be removed by hand" (page 110)

- 3 Return the unused cards to their original position
- 4 Install the card hopper cover
- 5 Press **Init.** → **Select** to reset the printer

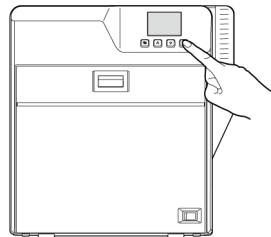
"Initializing from the Error Display" (page 48)



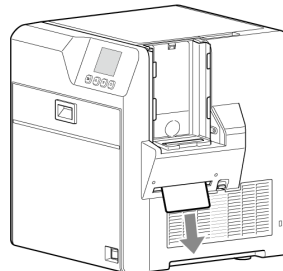
■ If the card cannot be removed by hand

- 1 Press **Init.** → **Select** to reset the printer

"Initializing from the Error Display" (page 48)



- The card is discharged from the NG card outlet.

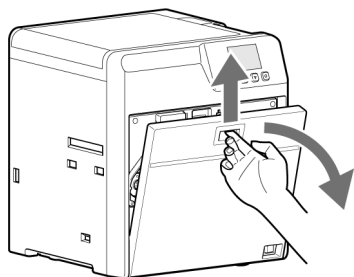


"If the card cannot be discharged" (page 111)

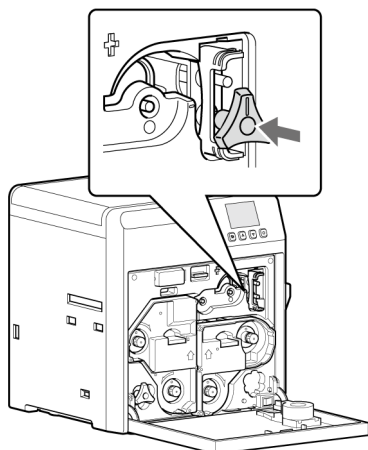
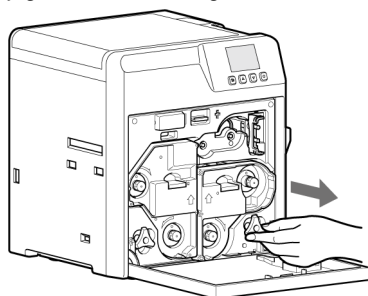
- 2 Return the unused cards to their original position
- 3 Install the card hopper cover

■ If the card cannot be discharged

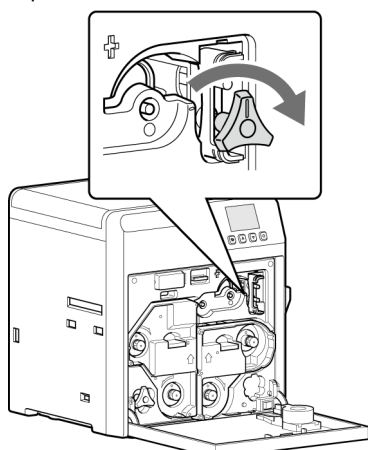
- ① Turn off the power
- ② Open the printer door, and check the position of the jammed card



- ③ Attach the jog dial to the cleaning roller shaft



- ④ Turn the cleaning roller shaft in the clockwise direction, while checking the position of the card



- ⑤ Remove the card after it is discharged from the card load slot

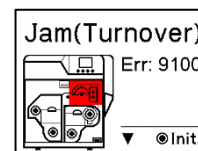
Cautions:

- If the card cannot be removed, do not try to do so forcibly.
Consult our authorized dealers or the service engineer.

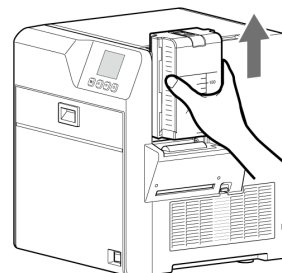
- ⑥ Restore the jog dial to its original position, and close the printer door
- ⑦ Return the unused cards to their original position
- ⑧ Install the card hopper cover
- ⑨ Turn on the power

Error Message Jam(TurnOver) 9100

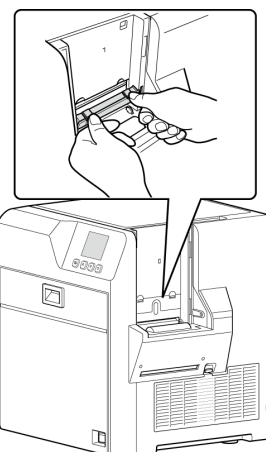
- Card jam near the card turn over unit.



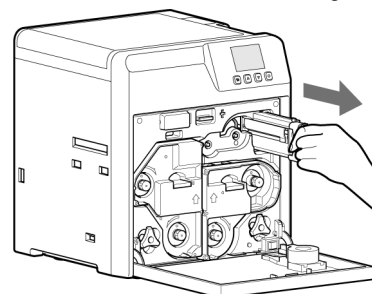
- 1 Turn off the power
- 2 Remove the card hopper



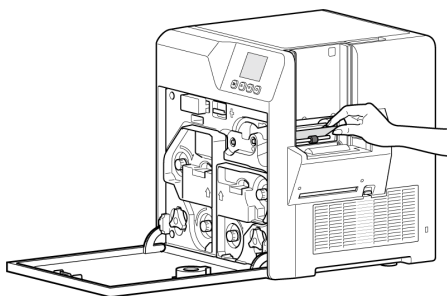
- 3 Remove the card load slot cover



- 4 Open the printer door, and remove the cleaning unit

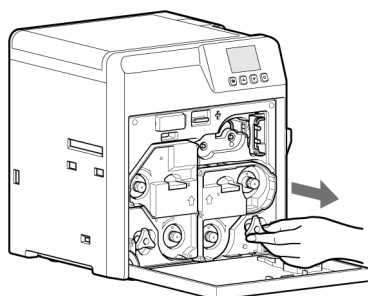


- 5 Remove the jammed card in the card turn over unit from the card load slot

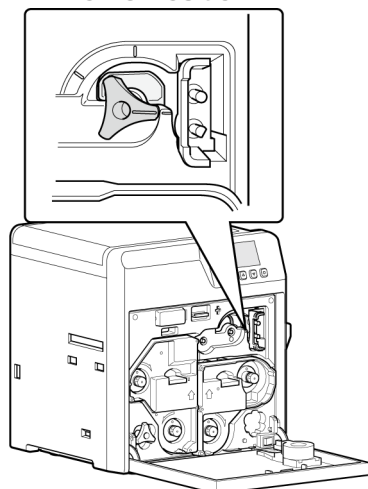


"If the card cannot be removed" (see page 112)

- 6 Install the cleaning unit
 - 7 Attach the jog dial to the card turn over unit shaft, and set the card turn over unit to "Home Position"
- "Home Position" is the position where the slit on the jog dial points to the right and the card turn over unit is horizontal.



Home Position



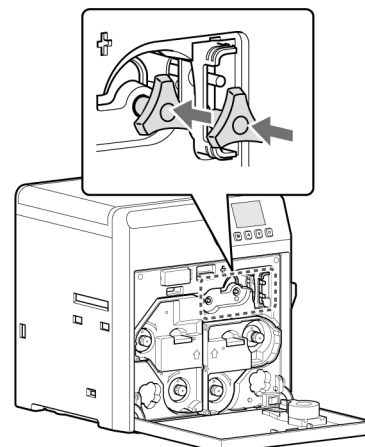
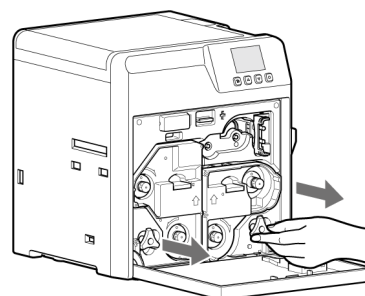
- 8 Restore the jog dial to its original position
- 9 Install the card load slot cover and card hopper, and close the printer door
- 10 Turn on the power

Cautions:

- If you turn on the printer without removing the jammed card, it could cause damage. Be sure to remove the jammed card before turning on the printer.

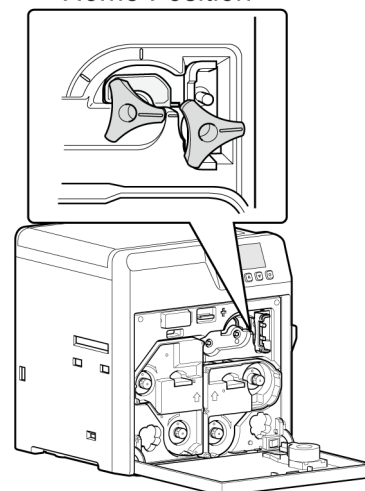
■ If the card cannot be removed

- ① Install the cleaning unit
- ② Attach the jog dial to the cleaning roller shaft and card turn over unit shaft



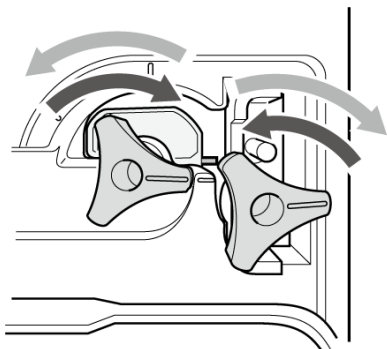
- ③ Set the card turn over unit to "Home Position"
- "Home Position" is the position where the slit on the jog dial points to the right and the card turn over unit is horizontal.

Home Position



- If the card protrudes from the card turn over unit, turn the cleaning roller shaft to move the card into the unit.

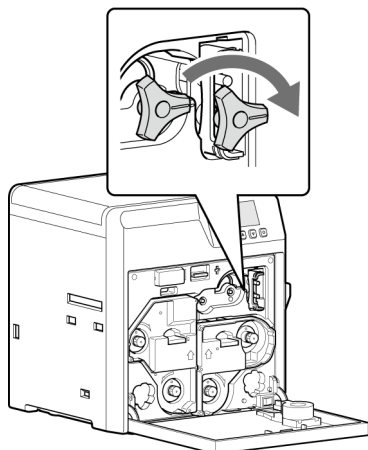
- Turning the card turn over unit moves the card inside the unit outward. Turn the card turn over unit while turning the cleaning roller shaft so that the card is retained inside the card turn over unit, and set to "Home Position".



Cautions:

- When the card turn over unit cannot be turned, do not turn it forcibly with the jog dial. Doing so may cause the card turn over unit to malfunction.

- ④ Turn the cleaning roller shaft in the clockwise direction



- ⑤ Remove the card after it is discharged from the card load slot

Cautions:

- If the card cannot be removed, do not try to do so forcibly. Consult our authorized dealers or the service engineer.

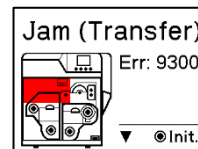
- ⑥ Restore the jog dial to its original position
- ⑦ Install the card load slot cover and card hopper, and close the printer door
- ⑧ Turn on the power

Cautions:

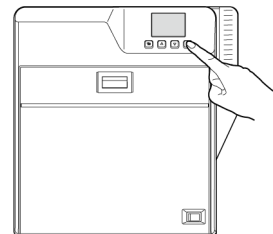
- If you turn on the printer without removing the jammed card, it could cause damage. Be sure to remove the jammed card before turning on the printer.

Error Message Jam(Transfer) 9300

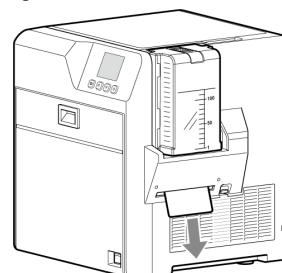
- Card jam in the card feed roller.



- 1 Press Init. → Select to reset the printer
["Initializing from the Error Display" \(page 48\)](#)

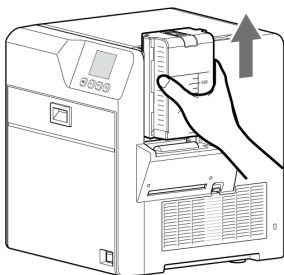


- The card is discharged from the NG card outlet.

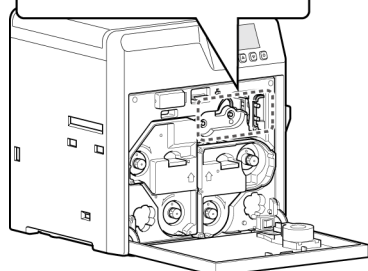
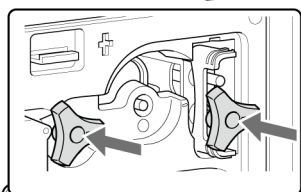
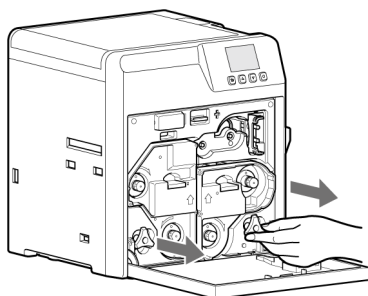


■ If the card cannot be discharged

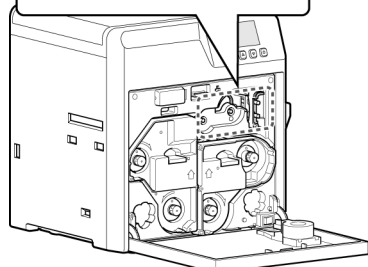
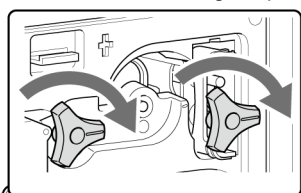
- ① Remove the card hopper



- ② Open the printer door, and check the position of the jammed card
- ③ Attach the jog dial to the card feed roller shaft and cleaning roller shaft



- ④ Turn the card feed roller shaft and cleaning roller shaft in the clockwise direction, while checking the position of the card



- Remove the card after it is discharged from the card load slot. (For single-sided printers, the card is discharged from the NG card outlet.)

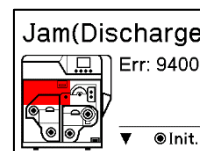
Cautions:

- If the card cannot be removed, do not try to do so forcibly.
Consult our authorized dealers or the service engineer.

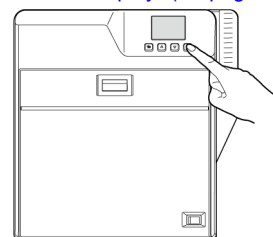
- ⑤ Restore the jog dial to its original position
- ⑥ Install the card hopper, and close the printer door
- ⑦ Turn on the power

Error Message Jam(Discharge) 9400

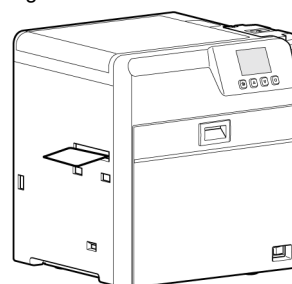
- Card jam near the card outlet.



- 1 Press Init. → Select to reset the printer
["Initializing from the Error Display" \(page 48\)](#)

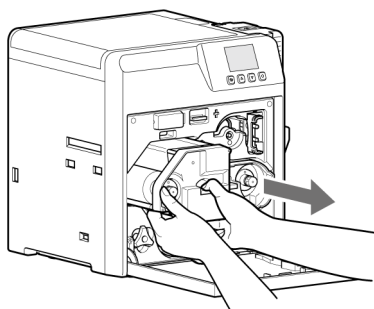


- The card is discharged from the card outlet.

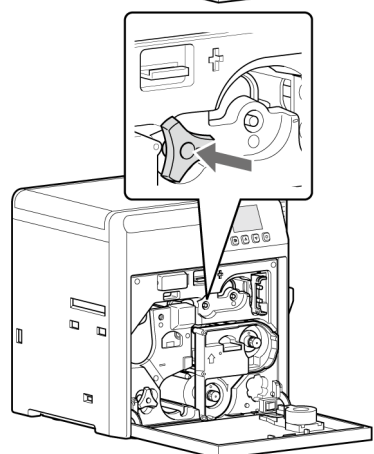
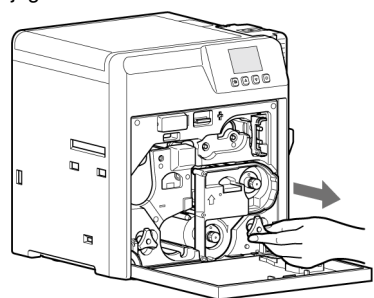


■ If the card cannot be discharged

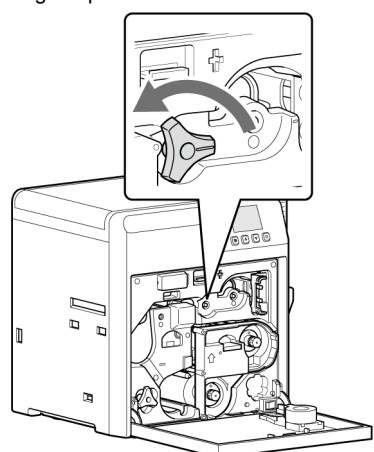
- ① Turn off the power, and open the printer door
- ② Pull out the retransfer film cassette, and check the position of the card



- ③ Attach the jog dial to the card feed roller shaft



- ④ Turn the card feed roller shaft in the anti-clockwise direction, while checking the position of the card



- The card is discharged from the card outlet.

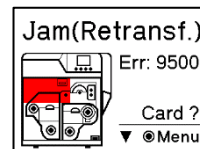
Cautions:

- If the card cannot be removed, do not try to do so forcibly. Consult our authorized dealers or the service engineer.

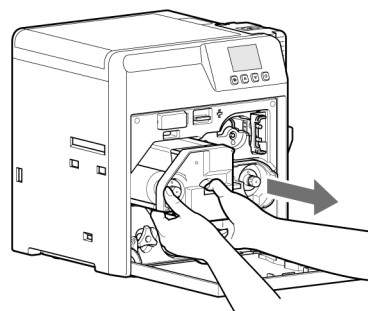
- ⑤ Restore the jog dial to its original position, and install the retransfer film cassette
- ⑥ Close the printer door, and turn on the power

Error Message Jam(Retransf.) 9500

- Card jam near the retransfer heating roller.



- 1 Open the printer door
- 2 Pull out the retransfer film cassette



Cautions:

- The card may be adhered to the retransfer film. Pull out the retransfer film while taking care not to jam it.

- 3 Remove the jammed card

["If the card is adhered to the retransfer film" \(page 116\)](#)

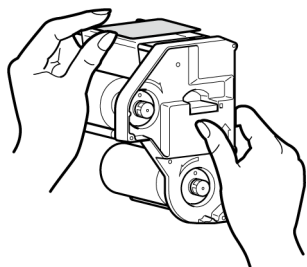
["If the card is inside the printer unit" \(page 116\)](#)

["If the card is caught in the card feed roller to the right of the retransfer heating roller" \(page 117\)](#)

["If the card is caught in the card feed roller to the left of the retransfer heating roller" \(page 118\)](#)

■ If the card is adhered to the retransfer film

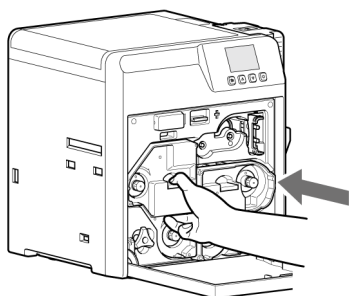
- ① Remove the jammed card with a hand



Cautions:

- The card may be very hot. Be careful not to burn your fingers when removing the card.

- ② Install the retransfer film cassette, and close the printer door



- ③ Turn on the power

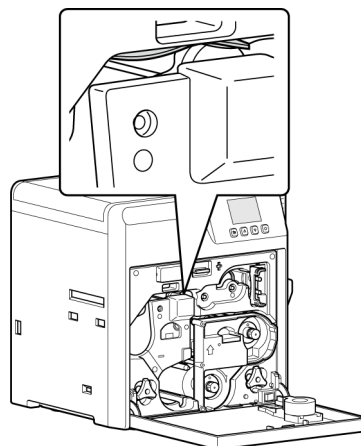
Cautions:

- If you turn on the printer without removing the jammed card, it could cause damage. Be sure to remove the jammed card before turning on the printer.

■ If the card is inside the printer unit

- If the card is not drawn into the card feed roller and is left inside the printer, use the tweezers (supplied) to remove the card.

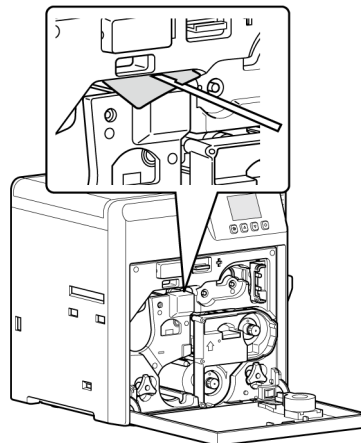
- ① Check the position of the card that is left inside the printer



- ② Pick up the card using the tip of the tweezers (supplied)

- Be careful not to drop the card inside the printer.

- ③ Pull out the card slowly



Cautions:

- The card may be very hot. Be careful not to burn your fingers when removing the card.
- If the card cannot be removed, do not try to do so forcibly. Consult our authorized dealers or the service engineer.

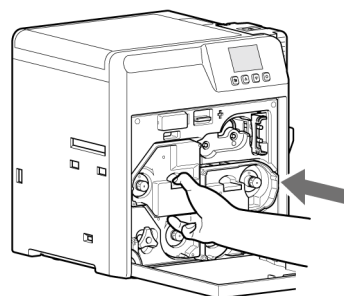
Memo:

Example of
how to pick up the card



- Pick up the card by following the diagram above.

- ④ Install the retransfer film cassette, and close the printer door



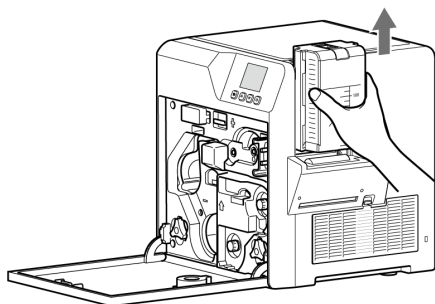
- ⑤ Turn on the power

Cautions:

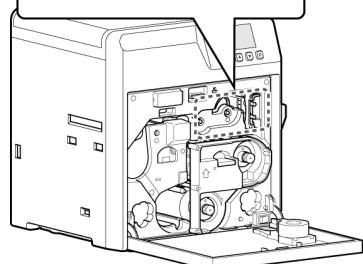
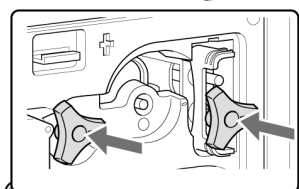
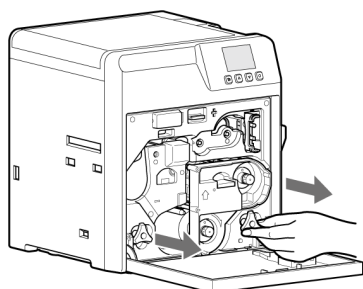
- If you turn on the printer without removing the jammed card, it could cause damage. Be sure to remove the jammed card before turning on the printer.

■ If the card is caught in the card feed roller to the right of the retransfer heating roller

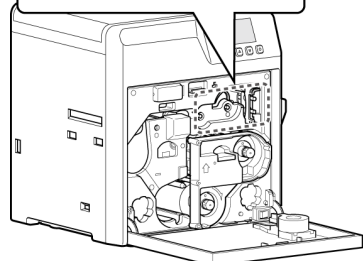
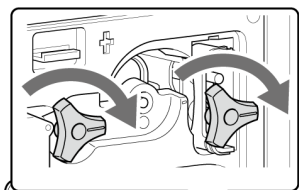
- ① Remove the card hopper



- ② Check the position of the card
- ③ Attach the jog dial to the card feed roller shaft and cleaning roller shaft



- ④ Turn the card feed roller shaft and cleaning roller shaft in the clockwise direction, while checking the position of the card



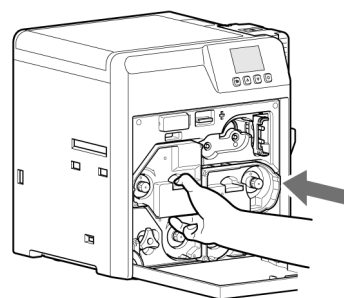
- Remove the card after it is discharged from the card load slot. (For single-sided printers, the card is discharged from the NG card outlet.)

Cautions:

- If the card cannot be removed, do not try to do so forcibly. Consult our authorized dealers or the service engineer.

- ⑤ Restore the jog dial to its original position, and install the card hopper

- ⑥ Install the retransfer film cassette, and close the printer door



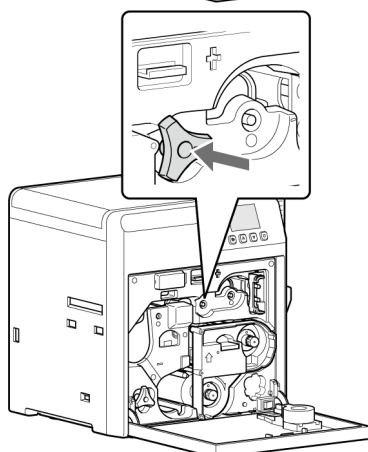
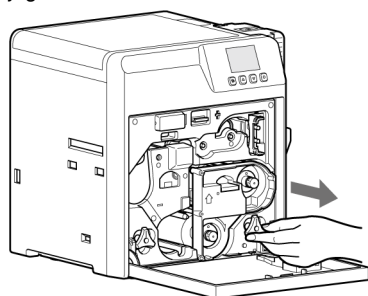
- ⑦ Turn on the power

Cautions:

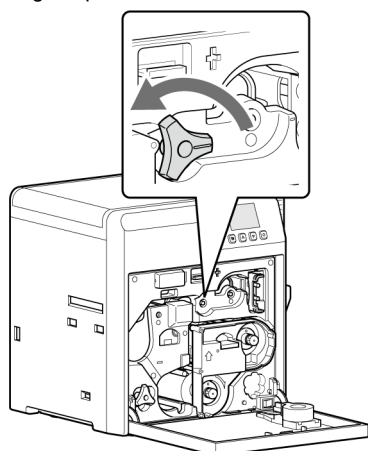
- If you turn on the printer without removing the jammed card, it could cause damage. Be sure to remove the jammed card before turning on the printer.

■ If the card is caught in the card feed roller to the left of the retransfer heating roller

- ① Check the position of the card
- ② Attach the jog dial to the card feed roller shaft



- ③ Turn the card feed roller shaft in the anti-clockwise direction, while checking the position of the card



- The card is discharged from the card outlet.

Cautions:

- If the card cannot be removed, do not try to do so forcibly.
Consult our authorized dealers or the service engineer.

- ④ Restore the jog dial to its original position
- ⑤ Install the retransfer film cassette, and close the printer door
- ⑥ Turn on the power

Cautions:

- If you turn on the printer without removing the jammed card, it could cause damage. Be sure to remove the jammed card before turning on the printer.

Ink Ribbon

Ink Ribbon has Run Out

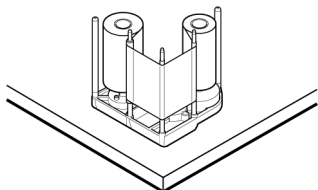
- ["Replace with a new ink ribbon."](#) (page 14)

Ink Ribbon is Broken

- Repair the ink ribbon.

Cautions:

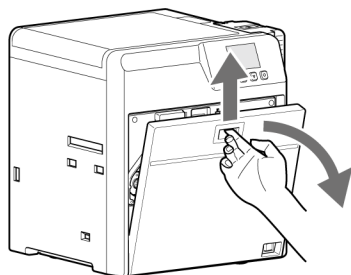
- If the Security Lock is on, deactivate it. After work is complete, activate the Security Lock again.
- Stand the cassette on a flat surface as illustrated in the diagram. Avoid doing so on the floor as dust attached to it may cause printing errors.



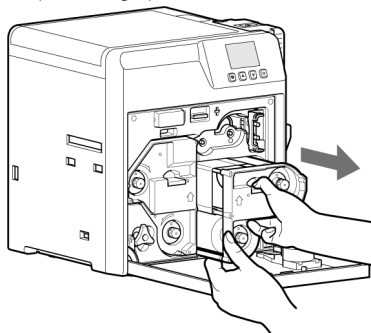
- Do not touch the inked surface (the side that faces outward when installed) with your hand. Touching it may cause printing errors. Put on the supplied gloves when handling the ink ribbon.
- The cassette is heavy when the ink ribbon is loaded. To prevent the cassette from dropping during handling, make sure to hold it with both hands.
- When installing a used ink ribbon, align the yellow side of the unused ribbon with the arrow indicated on the label of the cassette. If the position of the yellow side is not properly aligned, the print may turn out light.
- Do not perform any work on the printer door. Do not place heavy objects or apply load on the printer. Doing so may damage it.
- During replacement, clean the four bobbin holders on the printer. If burrs produced by friction with the bobbins are attached to the bobbin holders, they may fall onto the card, ink ribbon, or retransfer film, causing printing errors.

["Bobbin Holders"](#) (page 106)

1 Open the printer door



2 Press and hold down the cassette button, and remove the ink ribbon cassette (on the right)

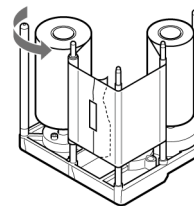


3 Cut away the broken portion, and attach the unused portion at the supply side to the other end at the take-up side using an adhesive tape, while making sure that the joint surface is even

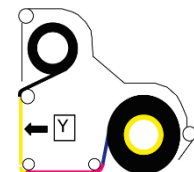
Cautions:

- Do not discard the used ribbon at the take-up side.

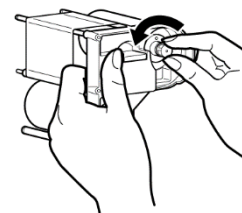
4 Turn the take-up side using your hand until the broken portion can no longer be seen



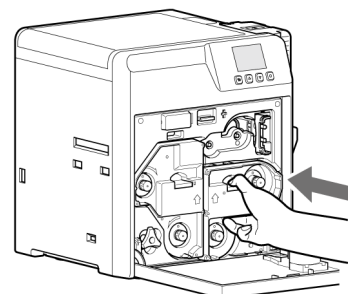
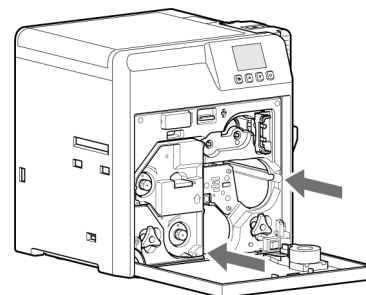
- Align the yellow side of the unused portion with the arrow indicated on the label of the cassette.



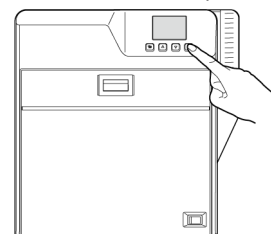
5 Remove any slack in the ink ribbon



6 Insert the cassette all the way in along the guide rail until a "click" sound is heard, followed by closing the printer door



7 Press Init. → Select to reset the printer



Memo:

- To avoid printing errors, it is recommended that you forward by one or two images after installing the ink ribbon cassette or retransfer film cassette.

["Initializing from the Error Display"](#) (page 48)

Retransfer Film

Retransfer Film has Run Out

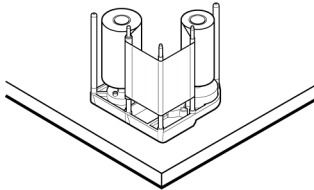
- ["Replace with a new retransfer film."](#) (page 15)

Retransfer Film is Broken

- Repair the retransfer film.

Cautions:

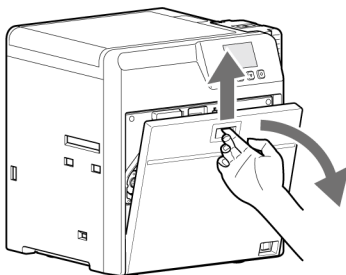
- If the Security Lock is on, deactivate it. After work is complete, activate the Security Lock again.
- Stand the cassette on a flat surface as illustrated in the diagram. Avoid doing so on the floor as dust attached to it may cause printing errors.



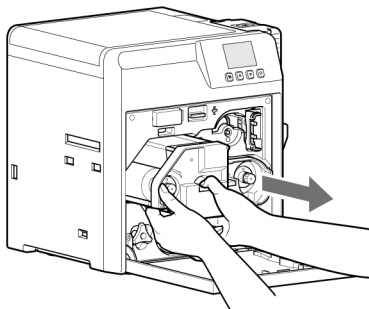
- Do not touch the retransfer face (the side that faces outward when installed) with your hand. Touching it may cause printing errors. Put on the supplied gloves when handling the retransfer film.
- The cassette is heavy when the retransfer film is loaded. To prevent the cassette from dropping during handling, make sure to hold it with both hands.
- When installing a used retransfer film, align the unused side of the film with the arrow indicated on the label of the cassette. Improper alignment may result in errors, or the print may turn out light.
- Do not perform any work on the printer door. Do not place heavy objects or apply load on the printer. Doing so may damage it.
- During replacement, clean the four bobbin holders on the retransfer. If burrs produced by friction with the bobbins are attached to the bobbin holders, they may fall onto the card, ink ribbon, or retransfer film, causing printing errors.

["Bobbin Holders"](#) (page 106)

1 Open the printer door



2 Press and hold down the cassette button, and remove the retransfer film cassette (on the left)

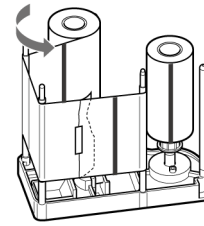


3 Cut away the broken portion, and attach the unused portion at the supply side to the other end at the take-up side using an adhesive tape, while making sure that the joint surface is even

Cautions:

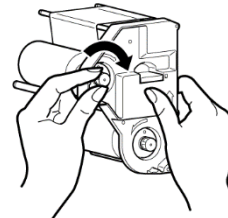
- Do not discard the used retransfer film at the take-up side.

4 Turn the take-up side using your hand until the broken portion can no longer be seen

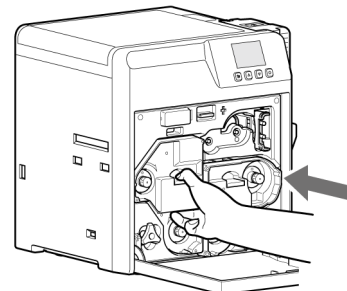
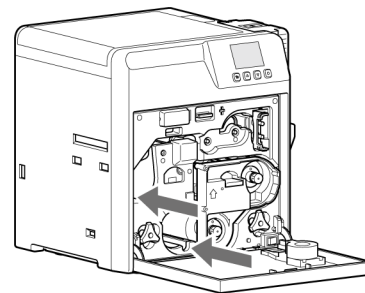


- Align the film side of the unused portion with the arrow indicated on the label of the cassette.

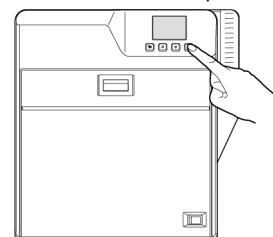
5 Remove any slack in the film



6 Insert the cassette all the way in along the guide rail until a "click" sound is heard, followed by closing the printer door



7 Press **Init.** → **Select** to reset the printer



Memo:

- To avoid printing errors, it is recommended that you forward by one or two images after installing the ink ribbon cassette or retransfer film cassette.

["Initializing from the Error Display"](#) (page 48)

Unable to Fit Retransfer Film Cassette into Printer

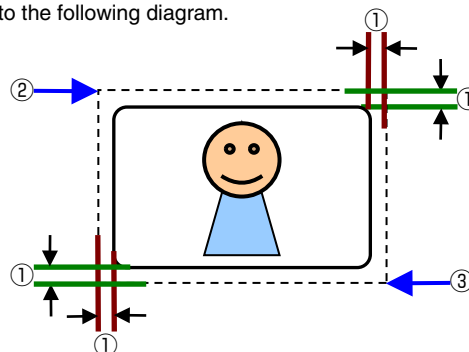
- With the printer door closed, turn on the power to cancel the transport mode.
- While in the transport mode, the retransfer film cassette cannot be installed to the printer with the retransfer film loaded.

["Transport Mode Setting" \(page 57\)](#)

Printing Settings

The Edge of the Image is not Printed

- Check the printing margin setting in the application software.
- About 1 mm from the edge of the image is not printed on the card. Refer to the following diagram.



- ① About 1 mm
- ② (X=0, Y=0)
- ③ (X= approx. 87.5 mm, Y= approx. 56.0 mm)

The Card is Discharged without being Printed

- The [Print] checkbox in the [Print] tab may not be selected. Select the [Print] checkbox.

["\[Print\] Tab" \(page 59\)](#)

How can I Print Black Color using the Resin K ink ?

- Select [2.K], [3.YMCK], [5.K+UV] or [6.YMCK+UV] for [Print mode] in the [Print] tab.

["\[Print\] Tab" \(page 59\)](#)

How can I Print a Card using the Security Erase Function ?

- Select [2.K], [3.YMCK], [5.K+UV] or [6.YMCK+UV] for [Print mode] in the [Print] tab, and select the [Security erase] checkbox. Doing so enables the security erase function for the Resin K ink.
- The security erase function is enabled when using the YMCK, YMCKK or YMCKUV ink.
- For details on the settings, please consult our authorized dealers.

["\[Print\] Tab" \(page 59\)](#)

How can I Store the Print Settings ?

- Clicking [Save...] in the [Setup] tab enables you to save the print settings in a file.
- Clicking [Load...] in the [Setup] tab restores the print settings from the saved file.

["\[Setup\] Tab" \(page 59\)](#)

How can I Print using Full Color Conversion ?

- Open the [Look up table] dialog box from the [Print] Tab and register the [look-up table file of the Color Conversion Data].

["\[Look up table\] Dialog Box" \(page 62\)](#)

UV Ink

How can I Print Cards using the UV ink ?

- Select [4.YMC+UV], [5.K+UV], or [6.YMCK+UV] for [Print mode] in the [Print] tab, and specify the relevant item in [UV ink...].
If UV ink is not installed into the printer, an error will occur during printing.

["\[Print\] Tab" \(page 59\)](#)

["\[UV ink\] Dialog Box" \(page 64\)](#)

Image at the Top Right Corner is not Printed

- In the case of printing using UV ink, the printer can print the MAC address.
- If the "Number of retransfer film panels" in the UV ink settings is set to "1 panel", the printer will not print the image that is inside the MAC address printing area (top right or bottom left corner).
Position the image so that the printing area of the YMCK ink does not overlap with that of the MAC address.
- If the "Number of retransfer film panels" is set to "2 panels", the printer will print the YMCK image.

["MAC Address Position" \(page 65\)](#)

A Part of the Image is not Printed

- If the "Number of retransfer film panels" in the UV ink settings is set to "1 panel", the area where the UV ink overlaps with the YMC ink will not be printed.
Position the image so that the printing area of the YMC ink does not overlap with that of the UV ink.
- If the "Number of retransfer film panels" is set to "2 panels", the printer will print the YMCK image.

["Number of Retransfer Film Panels During Printing" \(page 66\)](#)

How can I Print Images with the UV ink without the Background Color ?

- Paint the background of the image with a specific color such as by using a graphic software.
Set the color in [No printing color] of the [UV ink] dialog box.
Select the background color carefully, as any color in the image that is the same as the background color will not be printed.

["No printing color" \(page 64\)](#)

Image using the UV ink is not Printed

- The format of the image file is not supported.

["Windows Bitmap File Format" \(page 65\)](#)

- Other application software may be using the image file.

Hidden by the Resin K ink

- If the "Number of retransfer film panels" in the UV ink settings is set to "1 panel", UV ink will not be printed at the area where it overlaps with the Resin K ink.

["Number of Retransfer Film Panels During Printing" \(page 66\)](#)

Others

How can I Perform Magnetic / IC Encoding ?

- Special software are required for methods other than inline encoding.
- For more details, please consult our authorized dealers.

Printing cannot be Performed through Network Sharing

- When the access authority of the computer is not proper, the printer may be unable to perform printing even if installation of the printer driver is completed through network sharing.
Ensure that the access authority is proper according to the instructions of the network administrator.

How can I set USB as Default ?

- You can fix the interface to "USB" by setting [Default Interface] in the [Printer Select] tab on the status monitor to [USB].

How can I set the IP Address of the Network ?

- To set the network, it is necessary to connect the printer via USB and perform the setting on the status monitor.
Install the USB driver. After setting the network, remove the USB cable.

Unable to Produce Desired Printing Results

Lines Appear on Card after Printing

- ["Clean the thermal head." \(page 107\)](#)

Printed Cards Appear Washed Out or Show Conspicuous Dirt

- ["Clean the cleaning roller." \(page 101\)](#)
- ["Clean the fan filter." \(page 102\)](#)
- ["Clean the card feed roller / heating roller." \(page 103\)](#)
- ["Clean the bobbin holders." \(page 106\)](#)

Peeling Occurs on Card after Printing

- ["Check the retransfer mode settings." \(page 86\)](#)

Overall Printing Quality is Poor

- ["Clean the cleaning roller." \(page 101\)](#)
- ["Clean the fan filter." \(page 102\)](#)
- ["Clean the card feed roller / heating roller." \(page 103\)](#)
- ["Clean the bobbin holders." \(page 106\)](#)

- Is the printing face of the card dirty ?

Use a clean card.

Card is Printed in a Single Color

- Is the print setting set to single-color printing ?
- Is the application software setting set to single-color printing ?

Check the print settings.

Strange Characters or Images are Printed

- Is the driver for this printer selected on the computer ?

Select the driver for this printer.

- Is the USB cable connection loose ?

Plug in the USB cable properly.

Retransfer cannot be Performed Successfully

- Is the printing face of the card dirty ?

Use a clean card.

- Is the surrounding temperature or card surface temperature too low ?

Use the printer when the temperature of printer and card is warm enough.

["Check the Operating environment conditions." \(page 8\)](#)

- Is the retransfer speed setting value too high ?

Set to a value that is smaller than the standard value, +2 (i.e., between +1 and -3).

- Is the temperature of the retransfer heating roller too low ?

Set to a value that is larger than the standard value, +1 (i.e., +2).

Printer not Operating as Desired

Power does not Turn On

- Is the power switch turned off ? (O position)

Turn on the power. (I position)

- Is the power cord disconnected ?

Plug in the power cord properly.

- Is there electricity supply from the outlet ?

Try connecting another electrical device to the outlet. If the device works normally, then it could be due to malfunctioning of the printer. Please consult our authorized dealers.

Printing does not Start or Stops Halfway

- Is the printer door open ?

["Close the printer door properly, and reset the printer." \(page 48\)](#)

- Is the printer connected to a computer ?

Connect the printer to a computer correctly using a USB/LAN cable.

- Is the length of the USB cable too long ?

A USB cable with a length of not more than 2 m is recommended.

- Are cards set into the printer ?

["Set the cards correctly." \(page 16\)](#)

- Is the ink ribbon installed ?

["Install the ink ribbon correctly." \(page 14\)](#)

- Is the retransfer film installed ?

["Install the retransfer film correctly." \(page 15\)](#)

- Is the driver for this printer selected ?

Select the driver for this printer.

Card is not Fed into the Printer

- Is the card load roller dirty ?

["Clean the card load roller." \(page 102\)](#)

- Is the cleaning roller dirty ?

["Clean the cleaning roller." \(page 101\)](#)

- Is the card thickness correctly adjusted ?

["Check the adjusted card thickness." \(page 17\)](#)

- Are the cards adhered to one another ?

When using new cards, set them after making sure that they are not adhered to each other due to static.

Card Jam

- ["Clean the cleaning roller." \(page 101\)](#)

- ["Clean the card load roller." \(page 102\)](#)

Error During Writing to or Reading of Magnetic Stripe Card

- ["Clean the magnetic head." \(page 105\)](#)

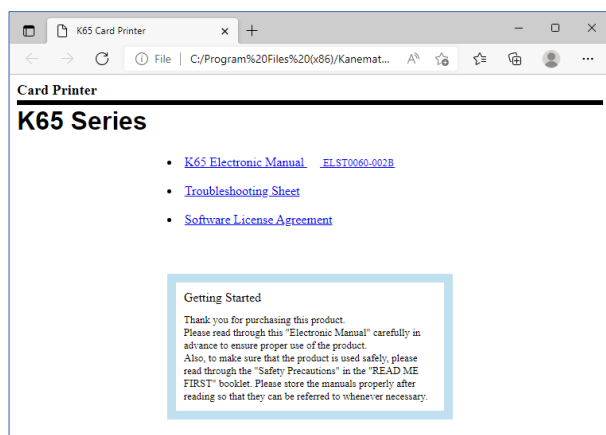
Before Sending Printer for Repair

Enter the symptoms into the troubleshooting sheet.

- 1 Please open the Electronic Manual that you installed from the software package

["Installer" \(page 18\)](#)

["Installing the Electronic Manual" \(page 29\)](#)



- 2 Clicking [Troubleshooting sheet] displays a PDF File
- 3 Print out the PDF file and enter accordingly

