EDIsecure ®

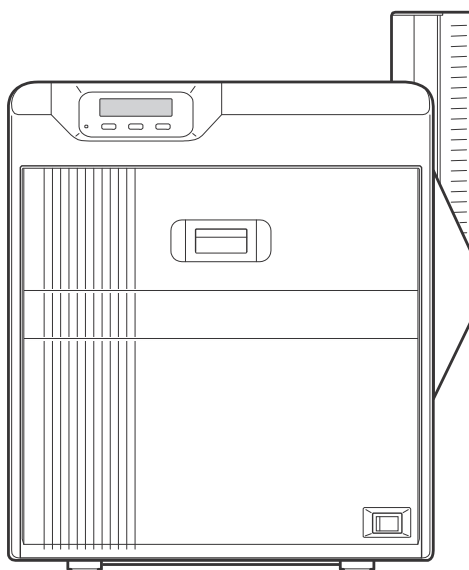# *X*ID 8300

Printer Driver Manual

Version 7.0.2

Thank you for purchasing this product. Please read through this "Printer Driver 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.

LST1006-002A

Contents

Before Use

**Setup**

About this Manual

Contents of this Manual

- The copyright of this manual belongs to our company. Reprint and duplicate of this manual in part or full without the prior consent of our company is strictly prohibited.
- Product names of other companies described in the manual are the trademarks or registered trademarks of the respective companies. Symbols such as ™, Ⓦ and Ⓠ are omitted in this manual.
- 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 Vista™ operating system, Microsoft Windows XP operating system and Microsoft Windows 2000 operating system are represented as Windows Vista, Windows XP and Windows 2000 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 ⌄

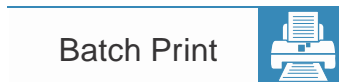- Information in this frame is for reference purposes, such as information on functions and usage restrictions.
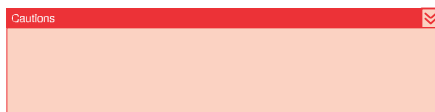
Cautions ⌄

- Precautions are described in this frame.

⌄

- Click this frame to display the details page.

Return to top page ≫

- Click this icon to return to the top page.

Batch Print 🖨

- Click this icon to open the PDF files for all items. The "Adobe Reader" application is needed to browse the PDF file.

Print 🖨

- Click this icon to open the PDF file for the displayed item. The "Adobe Reader" application is needed to browse the PDF file.

Computer Settings

○ **System Requirements**
- The printer software runs under the following environments.
- Microsoft Windows Vista 32 bit (Service Pack 1)
- Microsoft Windows XP 32 bit (Service Pack 2/3)
- Microsoft Windows 2000 Professional 32bit (Service Pack 4)
- Microsoft Windows 7 32-bit and 64-bit

- "Software" (A page 4)
- "Install" (A page 4)
- "Uninstall" (A page 19)
- "IPSec" (A page 23)
- "Printer Driver Settings" (A page 26)
- "Port Monitor Settings" (A page 45)
- ν "Status Monitor Settings" (A page 46)
- "Inline Encoding" (A page 57)
- "Frequently Asked Questions" (A page 59)

Software

- 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.

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.

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" (A page 4)
- "Network Sharing of Printer" (A page 12)
- "Status Monitor" (A page 14)
- "USB Driver" (A page 15)

Printer Driver
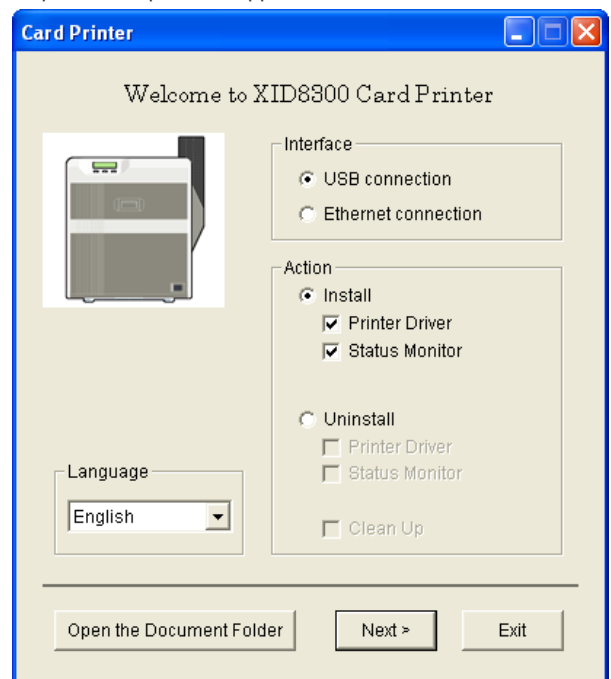
Installing the Printer Driver

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

1 Start up Windows, and set the supplied CD-ROM into the computer
- A card printer setup screen appears.

Memo:
- If the CD-ROM drive of the computer is set to run automatically, the installer will be executed automatically.
If the installer is not automatically initiated, double-click "SETUP.exe" in the CD-ROM.
- If you are not using the "SETUP.exe" automatic execution program in the CD-ROM, start the installer for the printer driver by double-clicking the following file in the CD-ROM: "English\USB_Soft \install.exe".

○ Windows Vista

■ A [AutoPlay] screen appears.

■ Clicking [Run SETUP.exe] displays the [User Account Control] screen.
■ Clicking [Allow] displays the card printer setup screen.

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

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

■ Selecting [Japanese] switches the program to the Japanese version.
■ Selecting [English] switches the program to the English version.

Β Select [USB connection] from [Interface]

Γ Select [Install] under [Action], and select the [Printer Driver] checkbox

Memo:

■ You can select the [Status Monitor] and [Electronic Manual] checkboxes to install them simultaneously. Selecting all checkboxes starts installation in the order of the Electronic Manual, printer driver, 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.

3 Click [Next]

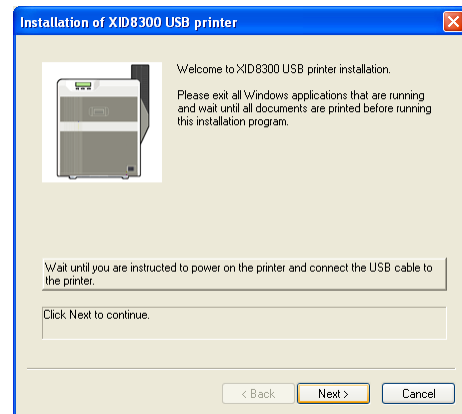■ A [Installation of *X*ID 8300 USB printer] screen appears.
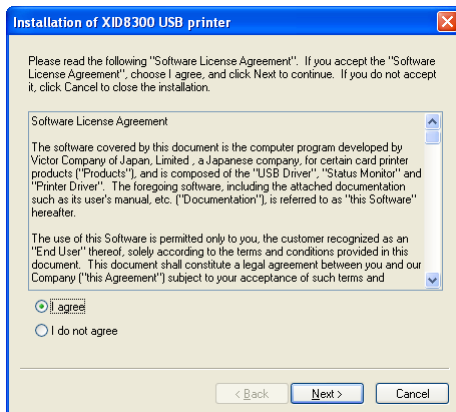
4 Read through the "Software License Agreement"

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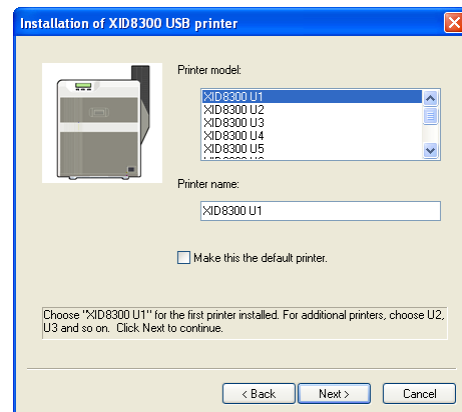■ If you do not agree, click [Cancel] to stop the installation.

5 Click [Next]

■ A start installation screen appears.

6 Check the details, followed by clicking [Next]

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

Α Select a [Printer model] according to the unit number of the printer "Unit Number Setting" (Α *X*ID 8300 Instruction Manual page 23)

■ 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)	*X*ID 8300 U1	*X*ID 8300 U1
2	*X*ID 8300 U2	*X*ID 8300 U2
3	*X*ID 8300 U3	*X*ID 8300 U3
4	*X*ID 8300 U4	*X*ID 8300 U4
5	*X*ID 8300 U5	*X*ID 8300 U5
6	*X*ID 8300 U6	*X*ID 8300 U6
7	*X*ID 8300 U7	*X*ID 8300 U7
8	*X*ID 8300 U8	*X*ID 8300 U8
9	*X*ID 8300 U9	*X*ID 8300 U9
10	*X*ID 8300 U10	*X*ID 8300 U10

Β Enter the [Printer name]
Γ Select the [Make this the default printer.] checkbox if necessary
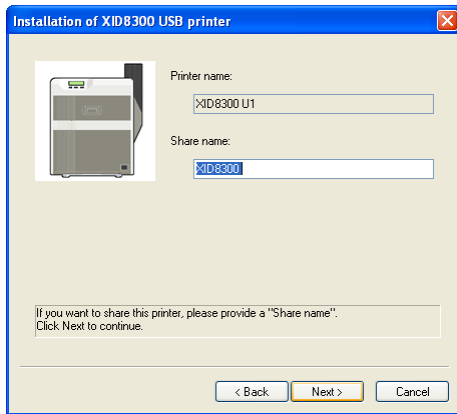
Memo:

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

7 Click [Next]

■ A screen for entering the shared name appears.

Setup

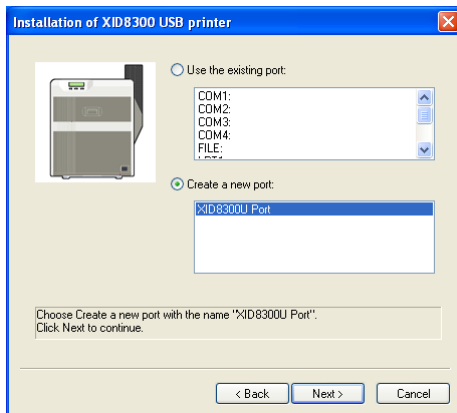- Enter the shared name when you are sharing a printer.

Memo:
- You can also set the shared name after installation is complete.
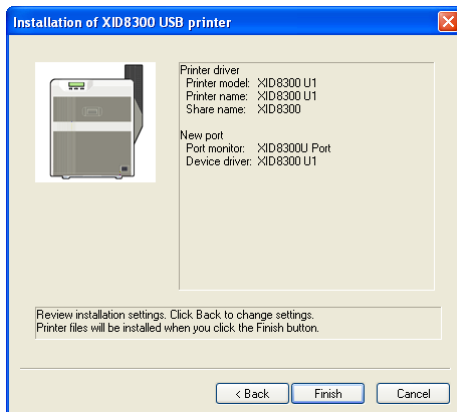
8 Click [Next]

- A port selection screen appears.
- Select *X*ID 8300U Port] under [Create a new port].

9 Click [Next]

- An install information confirmation screen appears.

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

- To change the settings, click [Back].

  ○ **Windows XP**
  - A [Software Installation] screen appears.
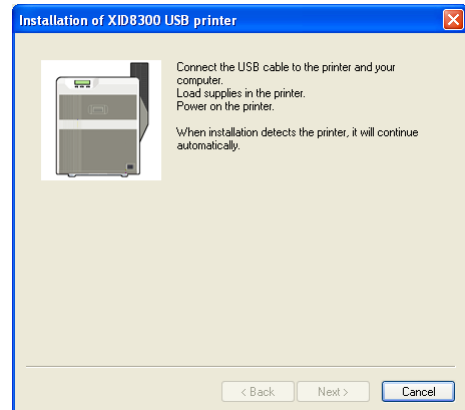

  Λ Click [Continue Anyway]

○ **Windows Vista**
- A [Windows Security] screen appears.

Λ Click [Install] part

- A USB cable connection instruction screen appears.

11 Connect the printer and computer using the USB cable

12 Turn on the power of the printer

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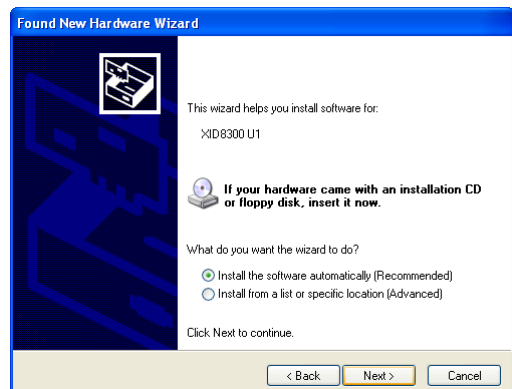- Installation does not start if connection is improper. When this occurs, check the connection.

○ **Windows XP**
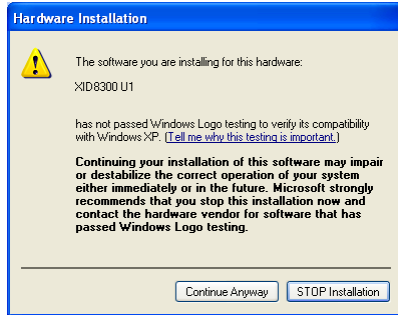A [Found New Hardware Wizard] screen appears.

Λ Select [No, not this time], and click [Next]

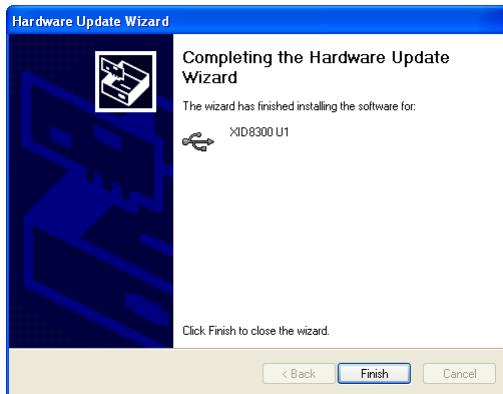- An installation method selection screen appears.

B Select [Install the software automatically (Recommended)], and click [Next]

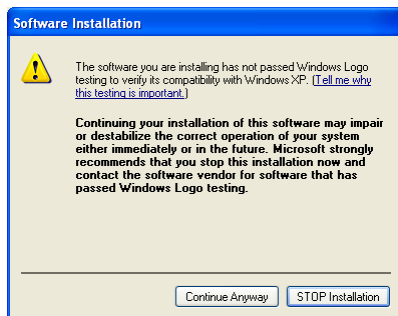■ A [Hardware Installation] screen appears.

C Click [Continue Anyway]

■ A "Completing the Found New Hardware Wizard" screen appears.

D Click [Finish]

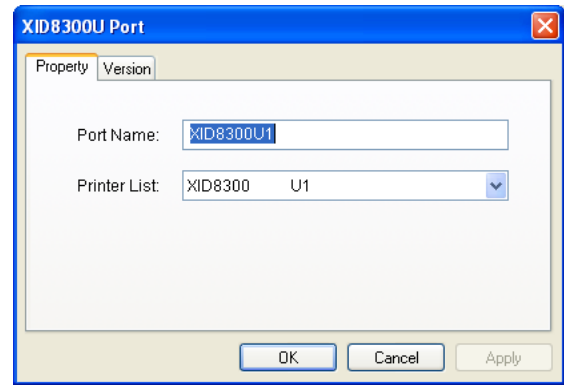■ A [Software Installation] screen appears.

E Click [Continue Anyway]

❍ **Windows 2000**

■ A [Digital Signature Not Found] screen appears.

A Click [Yes]

■ A [XID 8300U Port] screen appears.

13 Select the [Property] tab

A 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.

B Enter the port name

14 Click [OK]

❍ **Windows XP**

■ A [Software Installation] screen appears.

A Click [Continue Anyway]

❍ **Windows Vista**

■ A [Windows Security] screen appears.
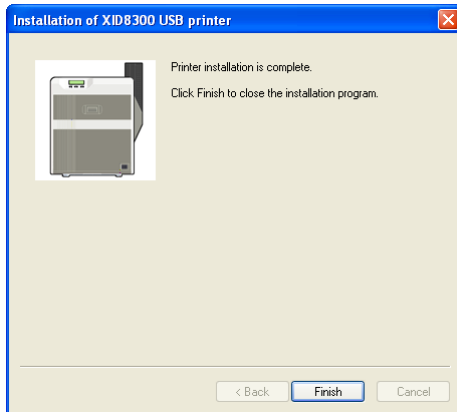

A Click [Install] part

7

○ **Windows 2000**

■ A [Digital Signature Not Found] screen appears.

ᴧ Click [Yes]

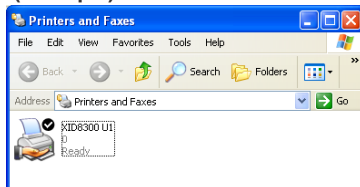■ A printer installation complete screen appears.

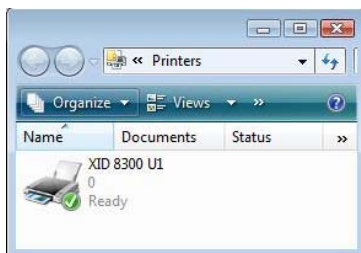*15* Click [Finish]

■ Exits the installation program.

16 Open "Printers" in [Control Panel]

■ Check to ensure that the printer is added.

○ **Windows XP (Example)**

○ **Windows Vista (Example)**

○ **Windows 2000 (Example)**

Cautions:

■ To delete a printer, execute "Uninstall printer driver" after restarting Windows.
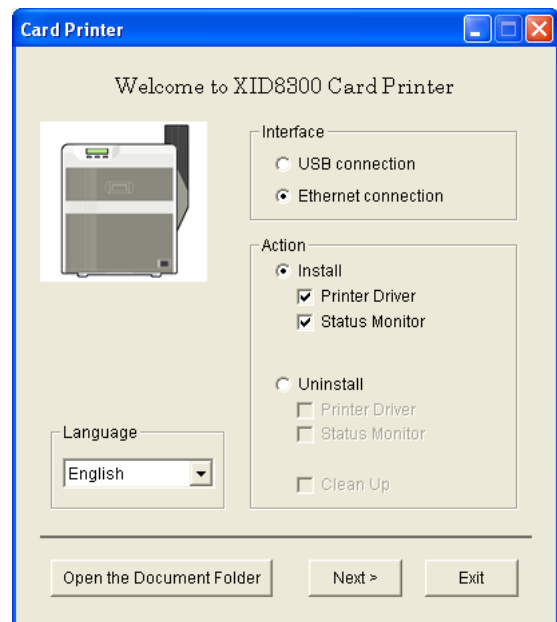
Ethernet (LAN) Connection

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 applications that are currently running.

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

1 Start up Windows, and set the supplied CD-ROM into the computer

■ A card printer setup screen appears.

Memo:

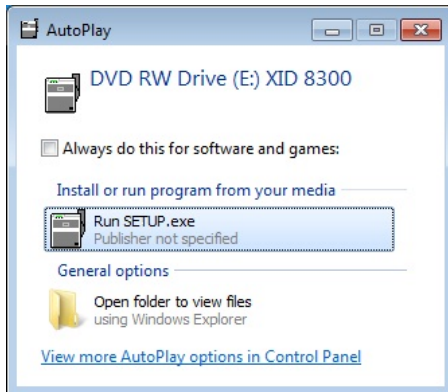■ If the CD-ROM drive of the computer is set to run automatically, the installer will be executed automatically.
If the installer is not automatically initiated, double-click "SETUP.exe" in the CD-ROM.

■ If you are not using the "SETUP.exe" automatic execution program in the CD-ROM, start the installer for the printer driver by double-clicking the following file in the CD-ROM: "English\LAN_Soft\install.exe".

❍ **Windows Vista**
- A [AutoPlay] screen appears.

- Clicking [Run SETUP.exe] displays the [User Account Control] screen.
- Clicking [Allow] displays the card printer setup screen.

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

A Select the language to use from the [Language] pull-down menu
- Selecting [Japanese] switches the program to the Japanese version.
- Selecting [English] switches the program to the English version.

B Select [Ethernet connection] from [Interface].

C Select [Install] under [Action], and select the [Printer Driver] checkbox

Memo:
- You can select the [Status Monitor] and [Electronic Manual] checkboxes to install them simultaneously. Selecting all checkboxes starts installation in the order of the Electronic Manual, status monitor, and printer driver.
- 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.

3 Click [Next]
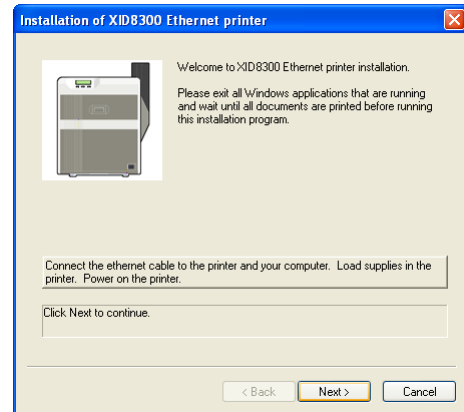- A [Installation of *X*ID 8300 Ethernet printer] screen appears.
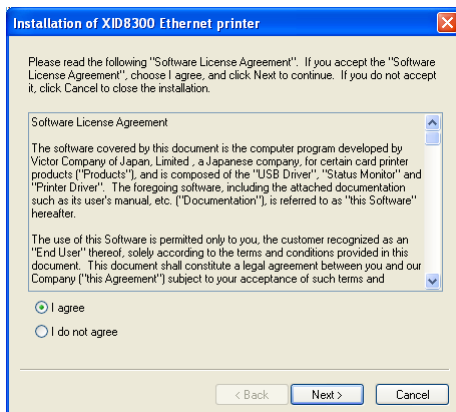
4 Read through the "Software License Agreement"
- If you accept the terms and conditions, select [I agree] to start installation.
- If you do not agree, click [Cancel] to stop the installation.

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

6 Connect the printer and computer using a LAN cable

7 Turn on the power of the printer

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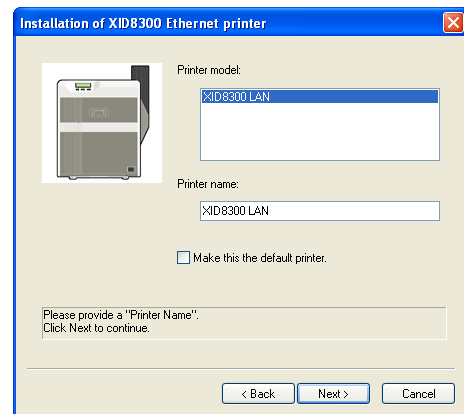
A Select a [Printer model]

B Enter the [Printer name]

C 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.

9 Click [Next]
- A screen for entering the shared name appears.
- Enter the shared name when you are sharing a printer.

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

Setup

10 Click [Next]

■ A port selection screen appears.

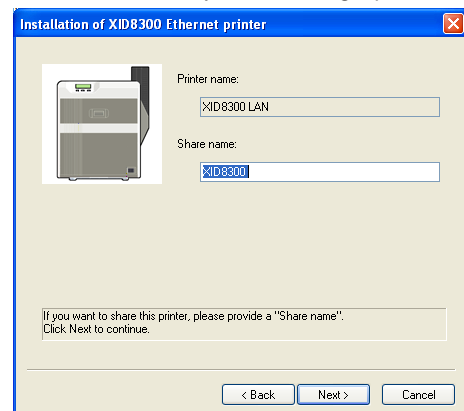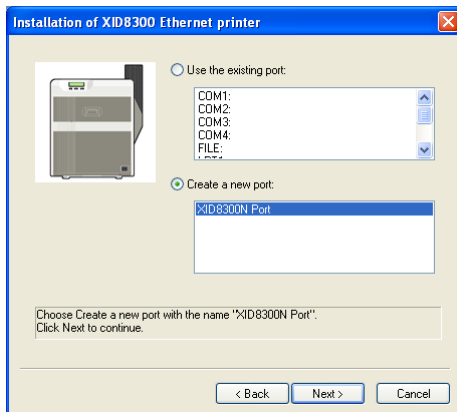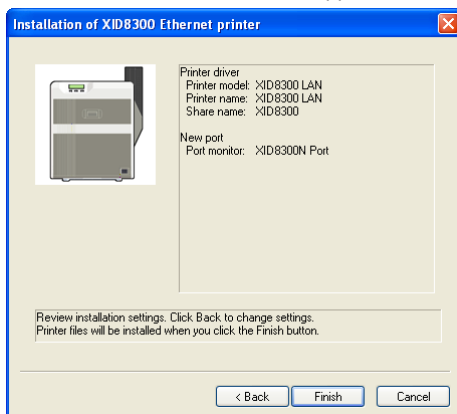■ Select [XID 8300N Port] under [Create a new port].

11 Click [Next]

■ An install information confirmation screen appears.

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

■ To change the settings, click [Back].

○ **Windows XP**

■ A [Software Installation] screen appears.

Ａ Click [Continue Anyway]

■ A [Windows Security Alert] screen appears.

Ｂ Click [Unblock]

■ The program will fail to function properly if you click on buttons other than [Unblock].
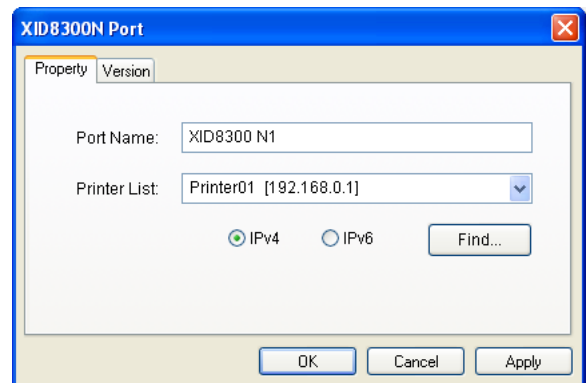
○ **Windows Vista**

■ A [Windows Security Alert] screen appears.

Ａ Click [Unblock]

■ The program will fail to function properly if you click on [Keep blocking].

■ A [XID 8300N Port] screen appears.

13 Select the [Property] tab

Ａ 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.

Ｂ Enter the [Port Name]

14 Click [OK]

○ **Windows XP**

■ A [Software Installation] screen appears.

Ａ Click [Continue Anyway]

○ **Windows Vista**

■ A [Windows Security] screen appears.

Ⱥ Click [Install] part

○ **Windows 2000**

■ A [Digital Signature Not Found] screen appears.
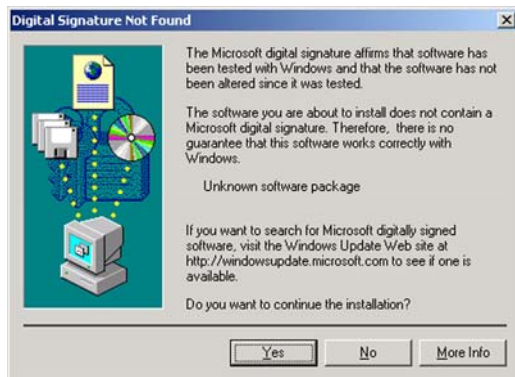
Ⱥ Click [Yes]

■ A printer installation complete screen appears.
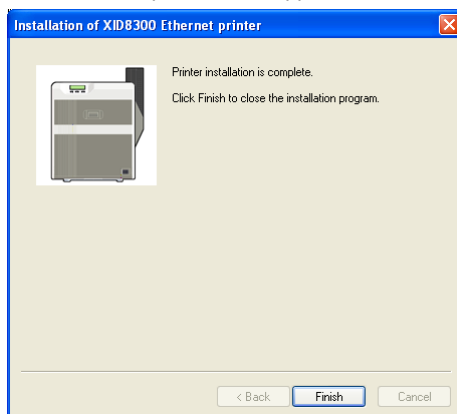
15 Click [Finish]

■ Exits the installation program.

16 Open "Printers" in [Control Panel]

■ Check to ensure that the printer is added.
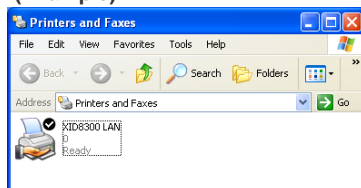
○ **Windows XP (Example)**

○ **Windows Vista (Example)**
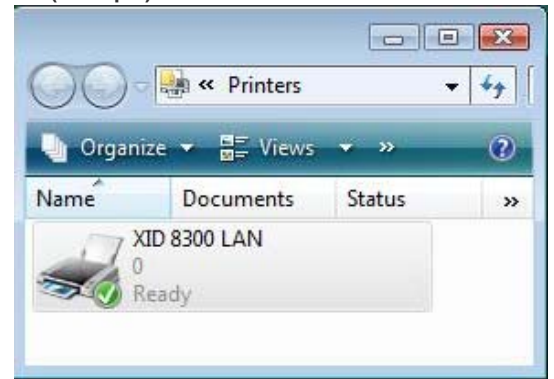
○ **Windows 2000 (Example)**

Cautions:

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

Update of Printer Driver

To update

1 Delete the existing printer driver

"Uninstalling the Printer Driver" (Ⱥ page 19)

2 Re-install the printer driver

"Installing the Printer Driver" (Ⱥ page 4)

Network Sharing of Printer

Windows XP/ Windows 2000

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 "Printers" in [Control Panel]
- A [Printers and Faxes] screen appears.
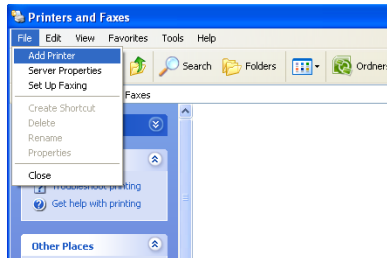
2 Click [Add Printer] under the [File] menu
- A "Welcome to the Add Printer Wizard" screen appears.

3 Click [Next]
- A printer type selection screen appears.
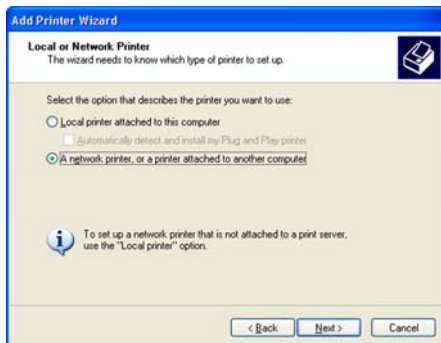
4 Select [A network printer, or a printer attached to another computer], and click [Next]
- A "Specify a Printer" screen appears.

5 Select [Browse for a printer], and click [Next]
- A "Browse for Printer" screen appears.
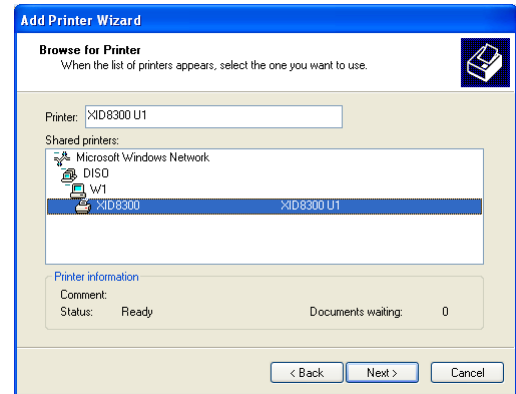
6 Select a printer from [Shared printers], and click [Next]
- A [Connect to Printer] screen appears.
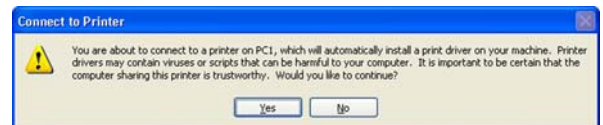
7 Click [Yes]
- A "Default Printer" screen appears.

8 Select [Yes] if necessary, and click [Next]
- A "Completing the Add Printer Wizard" screen appears.
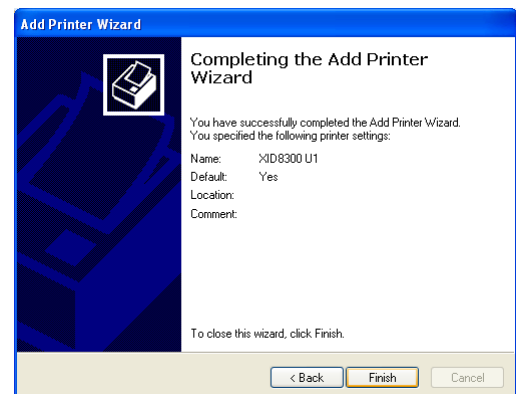
9 Check the details, followed by clicking [Finish]
- Network sharing of the printer is complete.

10 Open "Printers" in [Control Panel]
- Check to ensure that the printer is added.
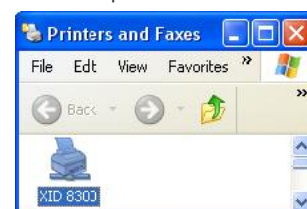
Cautions:

- 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.

**Windows Vista**

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 "Printers" in [Control Panel]

- A [Printer] screen appears.
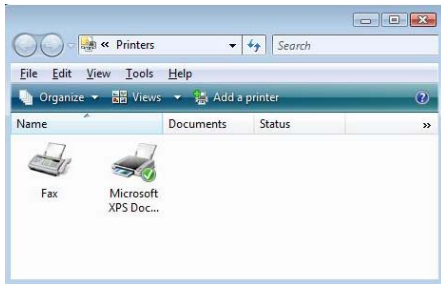
2 Click [Add a printer] in the toolbar

- A printer selection screen appears.
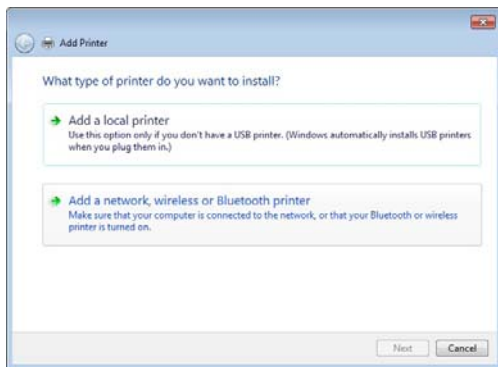
3 Select [Add a network, wireless or Bluetooth printer], and click [Next]

- A screen for selecting the printer appears.
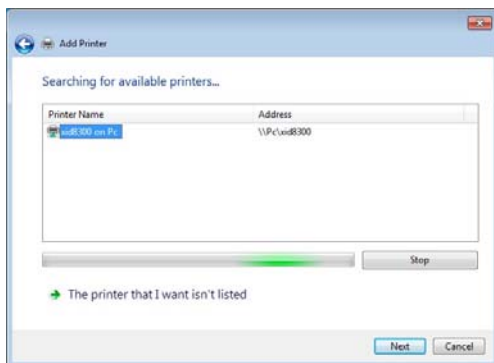
4 Select a printer, and click [Next]

- A driver installation confirmation screen appears.
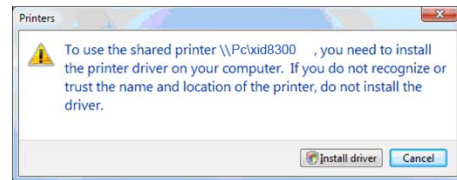
5 Click [Install driver]

- A [User Account Control] screen appears.

6 On the user account screen, click [Continue]

- A screen for entering the printer name appears.
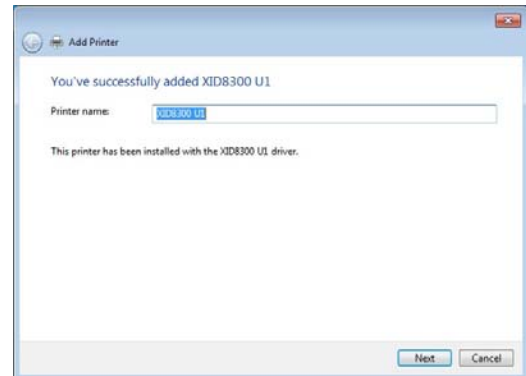
7 Select the [Set as the default printer] checkbox if necessary, and click [Next]

- A screen indicating that the printer is added appears.
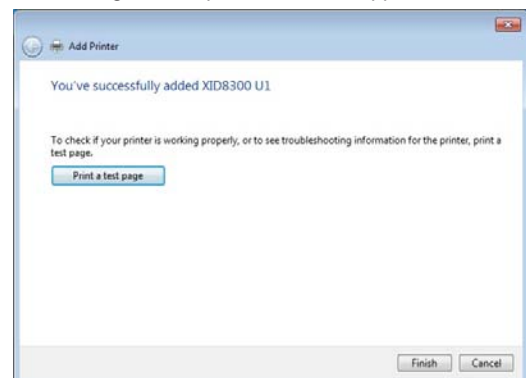
8 Check the details, followed by clicking [Finish]

- Network sharing of the printer is complete.

9 Open "Printers" in [Control Panel]
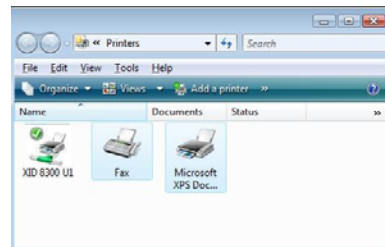
- Check to ensure that the printer is added.


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.

Setup

Status Monitor

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" (A page 15)

1 Start up Windows, and set the supplied CD-ROM into the computer
- A card printer setup screen appears.
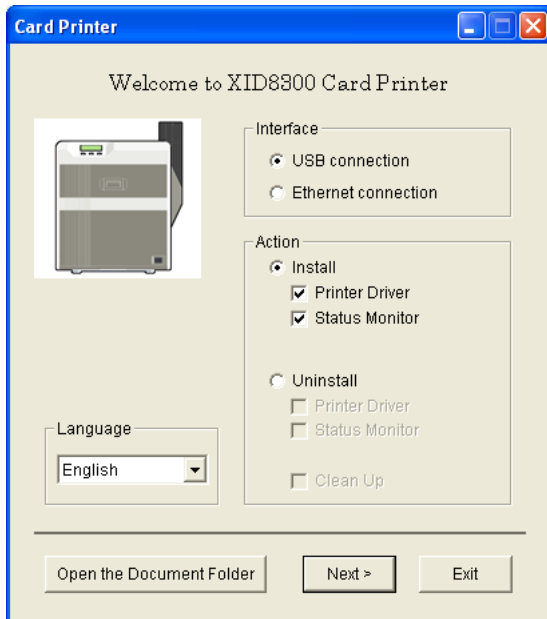
Memo:
- If the CD-ROM drive of the computer is set to run automatically, the installer will be executed automatically.
  If the installer is not automatically initiated, double-click "SETUP.exe" in the CD-ROM.
- If you are not using the "SETUP.exe" automatic execution program in the CD-ROM, start the installer for the status monitor by double-clicking the following file in the CD-ROM: "English\Software\STT_MON\install.exe".

○ **Windows Vista**
- A [AutoPlay] screen appears.
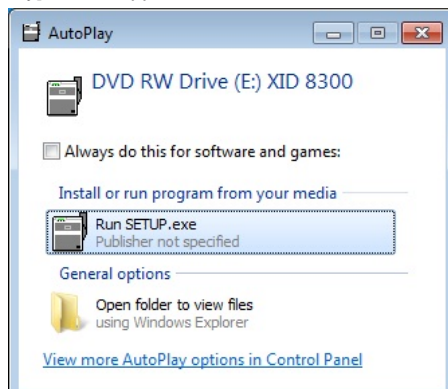
- Clicking [Run SETUP.exe] displays the [User Account Control] screen.
- Clicking [Allow] displays the card printer setup screen.

2 Select the [Status Monitor] checkbox on the card printer setup screen
  A Select the language to use from the [Language] pull-down menu
  - Selecting [Japanese] switches the program to the Japanese version.
  - Selecting [English] switches the program to the English version.
  B Select [USB connection] or [Ethernet connection] from [Interface]
  C Select [Install] under [Action], and select the [Status Monitor] checkbox

Memo:
- You can select the [Printer Driver] and [Electronic Manual] checkboxes to install them simultaneously.
- Clicking [Open the Electronic Manual] opens the Electronic Manual.
- Clicking [Exit] ends the installation.

3 Click [Next]
- A status monitor installation screen appears.
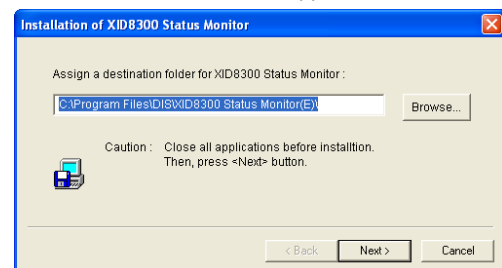
- To change the displayed installation destination, click [Browse...] and specify the destination folder.

4 Click [Next]
- A selection screen for registering the status monitor appears.
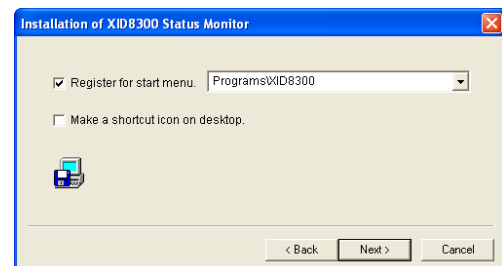
  A Select the [Register for start menu] checkbox
  - To change the registration in the displayed Start menu, make a selection from the [Register for start menu] list.
  B Select the [Make a shortcut icon on desktop.] checkbox if necessary

5 Click [Next]
- Installation starts.
- After installation is complete, an installation complete screen appears.
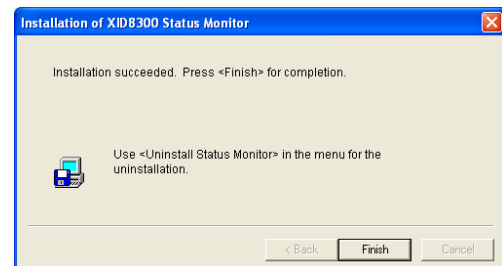
6 Click [Finish]
- An installation complete confirmation screen appears.
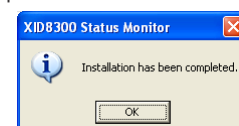
7 Click [OK]

■ Exits the installation program.

■ You can now start the status monitor from [Start menu].

Cautions:

■ The following error may occur when you start executing the status monitor on Windows Vista.
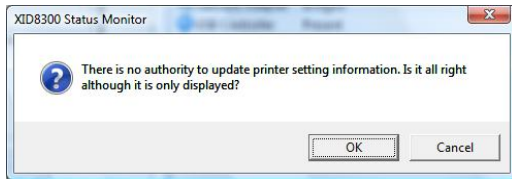
Cause: The status monitor cannot run because the program cannot be identified by Windows Vista.

Action: Select "Run as administrator" to start the status monitor as a user with administrator authority. Doing so enables the program to be identified by Windows Vista, and the same error will not recur.
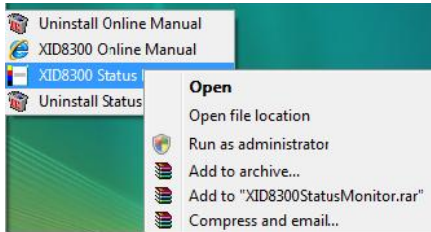
■ Even if a user is logged on with the administrator account on Windows Vista, the user may be regarded as one without administrator authority when running the status monitor.

Update of Status Monitor

1 Delete the status monitor

"Uninstalling the Status Monitor" (A page 22)

2 Re-install the status monitor

"Installing the Status Monitor" (A page 14)

USB Driver

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 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.

Windows XP

1 Start up Windows

2 Set the supplied CD-ROM into the computer

■ The "SETUP.exe" automatic execution program in the CD-ROM is not used. Exit this program.

3 Connect the computer and printer using the USB cable, and turn on the power of the printer

■ The printer is automatically detected by the computer.

■ A [Found New Hardware Wizard] screen appears.

Cautions:

■ Connection is improper if this screen does not appear. Make sure that the connection is properly established.

4 Select [No, not this time], and click [Next]

■ An installation method selection screen appears.
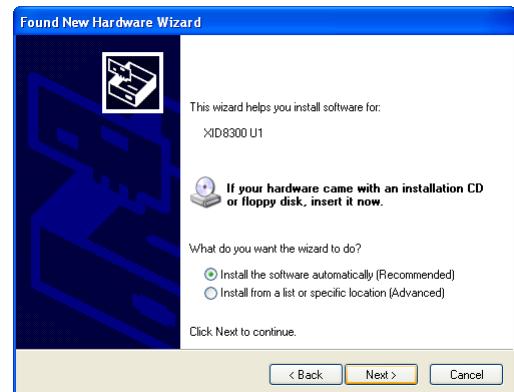
Setup

5 Select [Install the software automatically (Recommended)], and click [Next]

- A [Hardware Installation] screen appears.
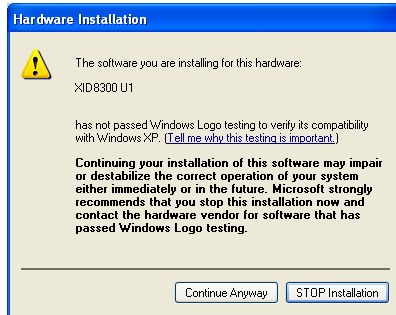
6 Click [Continue Anyway]

- A "Completing the Found New Hardware Wizard" screen appears.
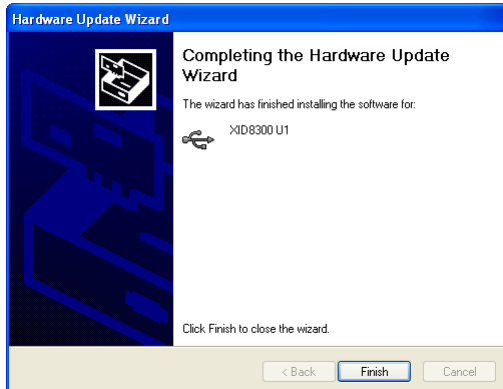
7 Click [Finish]

- Installation of the USB driver is complete.

Windows Vista

1 Start up Windows

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

- The printer is automatically detected by the computer.
- A [Found New Hardware] screen appears.

Cautions:
- Connection is improper if this screen does not appear. Make sure that the connection is properly established.

3 Click [Locate and install driver software (Recommended)]

- A [User Account Control] screen appears.

4 Click [Continue]

- A [Found New Hardware] screen appears.
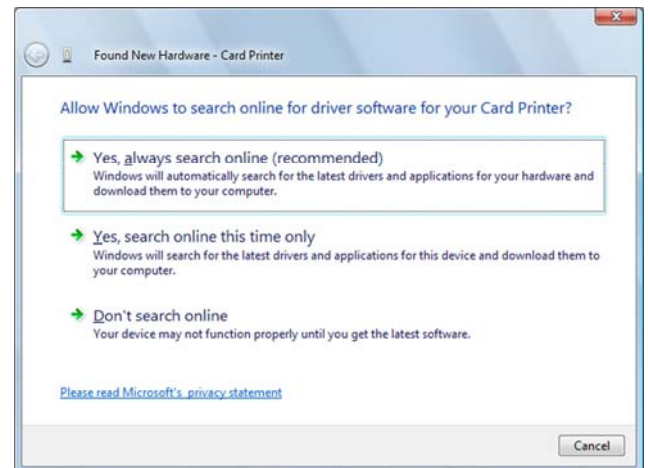
5 Click [Don't search online]

- A screen appears, prompting you to insert the disc.
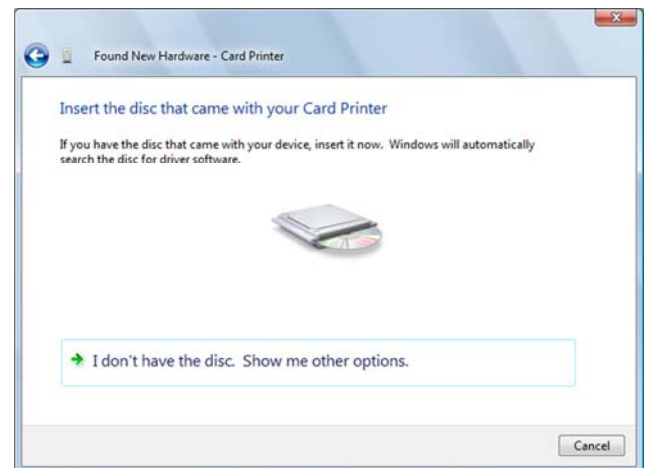
6 Set the supplied CD-ROM into the computer

- The "SETUP.exe" automatic execution program in the CD-ROM is not used. Exit this program.
- A [Windows Security] screen appears.

7 Click [Install this driver software anyway]

- An installation complete screen appears.
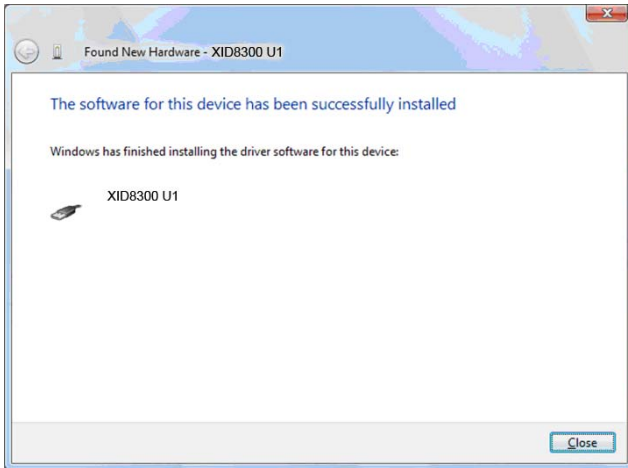
8 Click [Close]

- Installation of the USB driver is complete.

Windows 2000

1 Start up Windows

2 Set the supplied CD-ROM into the computer

- The "SETUP.exe" automatic execution program in the CD-ROM is not used. Exit this program.

3 Connect the computer and printer using the USB cable, and turn on the power of the printer

- The printer is automatically detected by the computer.
- A [Found New Hardware Wizard] screen appears.

Cautions:

- Connection is improper if this screen does not appear. Make sure that the connection is properly established.

4 Click [Next]

- A search method selection screen appears.

5 Select [Search for a suitable driver for my device (recommended)], and click [Next]

- A "Locate Driver Files" screen appears.

6 Select the [CD-ROM drives] checkbox, and click [Next]

- A "Driver Files Search Results" screen appears.
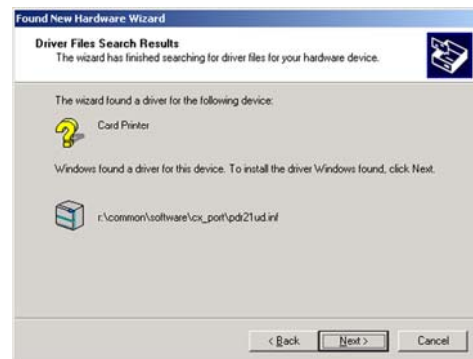
7 Click [Next]

▪ A "Completing the Found New Hardware Wizard" screen appears.

8 Click [Finish]
  ▪ Installation of the USB driver is complete.

Uninstall

Cautions:

- 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" (A page 19)
- "Status Monitor" (A page 22)

Printer Driver

Uninstalling the Printer Driver

USB Connection

Cautions:

- Do not execute "Uninstall" if there are applications 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 Set the supplied CD-ROM into the computer
- A card printer setup screen appears.

Memo:

- If the CD-ROM drive of the computer is set to run automatically, the installer will be executed automatically.
  If the installer is not automatically initiated, double-click "SETUP.exe" in the CD-ROM.
- If you are not using the "SETUP.exe" automatic execution program in the CD-ROM, start the uninstaller for the printer driver by double-clicking the following file in the CD-ROM: "English\USB_Soft \uninstall.exe".

○ **Windows Vista**
- A [AutoPlay] screen appears.

- Clicking [Run SETUP.exe] displays the [User Account Control] screen.
- Clicking [Allow] displays the card printer setup screen.

4 Select the [Printer Driver] checkbox on the card printer setup screen
   A Select the language to use from the [Language] pull-down menu
   - Selecting [Japanese] switches the program to the Japanese version.
   - Selecting [English] switches the program to the English version.
   B Select [USB connection] from [Interface]
   C Select [Uninstall] under [Action], and select the [Printer Driver] checkbox

Memo:

- You can select the [Status Monitor] and [Electronic Manual] checkboxes to uninstall them simultaneously.

5 Click [Next]
- A [Delete the XID 8300 USB printer] screen appears.
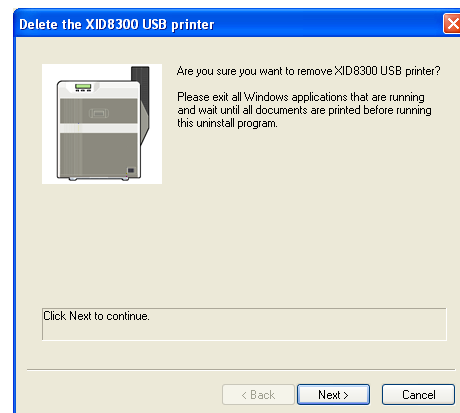
6 Check the details, followed by clicking [Next]
- A printer model selection screen appears.
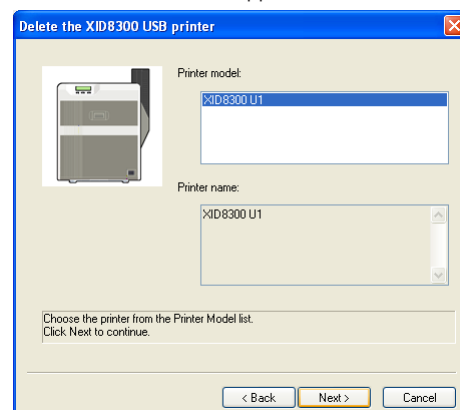
Setup

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

- An uninstall information confirmation screen appears.
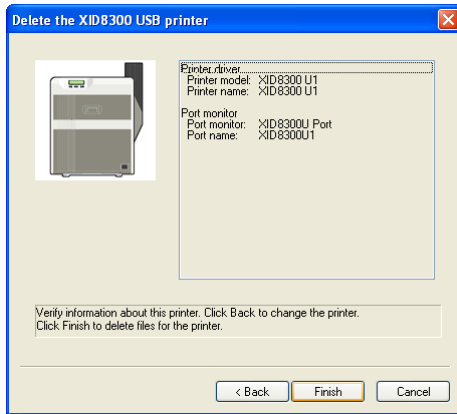
8 Check the details, followed by clicking [Finish]

- To change a printer, click [Back].

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

- An uninstallation complete screen appears.
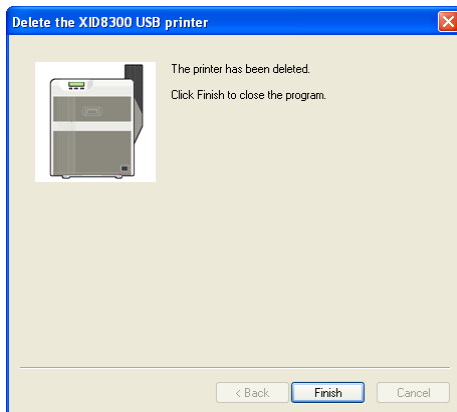
9 Click [Finish]

- Exits uninstallation.

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

Ethernet (LAN) Connection

Cautions:
- Do not execute "Uninstall" if there are applications that are currently running.
- If document printing is currently in progress, wait for all the jobs to complete.
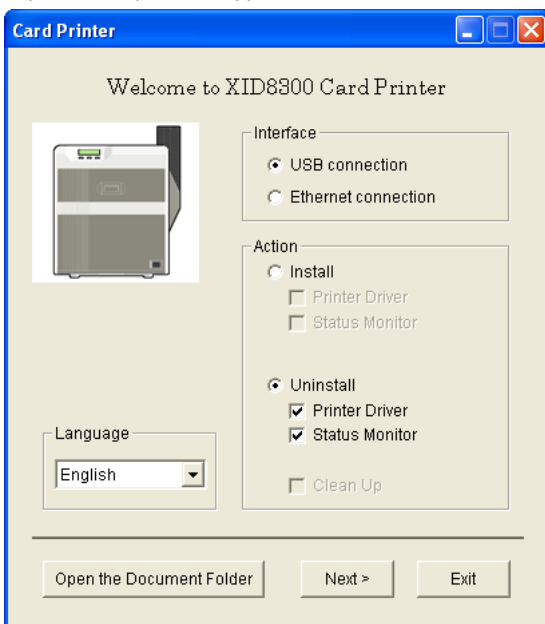
1 Start up Windows

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 Set the supplied CD-ROM into the computer

- A card printer setup screen appears.

Memo:
- If the CD-ROM drive of the computer is set to run automatically, the installer will be executed automatically.
  If the installer is not automatically initiated, double-click "SETUP.exe" in the CD-ROM.
- If you are not using the "SETUP.exe" automatic execution program in the CD-ROM, start the uninstaller for the printer driver by double-clicking the following file in the CD-ROM: "English\LAN_Soft \uninstall.exe".

○ **Windows Vista**
- A [AutoPlay] screen appears.

- Clicking [Run SETUP.exe] displays the [User Account Control] screen.
- Clicking [Allow] displays the card printer setup screen.

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

  A Select the language to use from the [Language] pull-down menu
  - Selecting [Japanese] switches the program to the Japanese version.
  - Selecting [English] switches the program to the English version.
 B Select [Ethernet connection] from [Interface].
  C Select [Uninstall] under [Action], and select the [Printer Driver] checkbox

Memo:
- You can select the [Status Monitor] and [Electronic Manual] checkboxes to uninstall them simultaneously.

5 Click [Next]

- A [Delete the *X*ID 8300 Ethernet printer] screen appears.
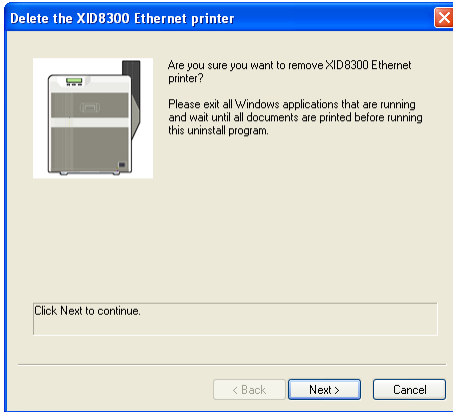
6 Check the details, followed by clicking [Next]

- A printer model selection screen appears.
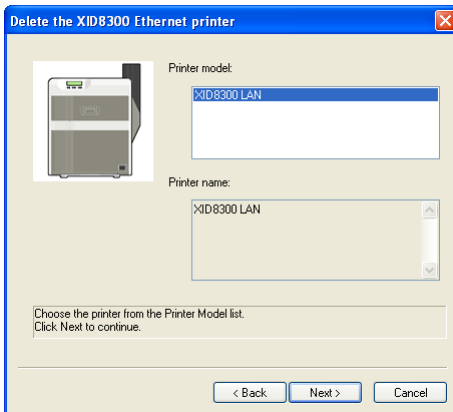
7 Select the printer to uninstall, and click [Next]

- An uninstall information confirmation screen appears.
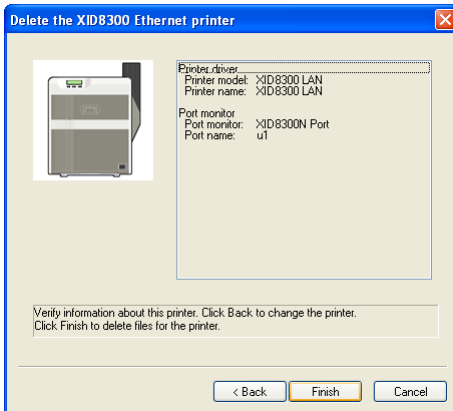
8 Check the details, followed by clicking [Finish]

- 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.
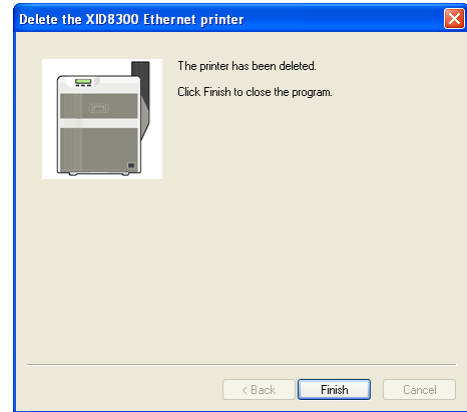
9 Click [Finish]

- Exits uninstallation.

Cautions:

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

Status Monitor

Uninstalling the Status Monitor

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

1 Exit the status monitor

2 Select [Uninstall Status Monitor] from [Start menu]
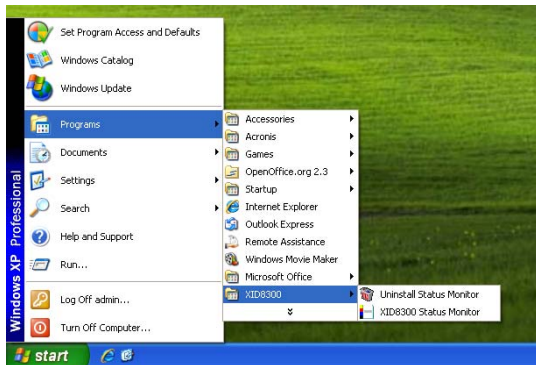
Memo:
- If the [Register for start menu] checkbox is not selected during installation of the status monitor, delete using [Add or Remove Programs] in [Control Panel].
- You can also perform uninstallation using the "SETUP.exe" automatic execution program.

"SETUP.exe" (A page 14)

- A status monitor deletion confirmation screen appears.

3 Click [OK]

- Uninstallation starts, and a confirmation screen for deleting the setting file appears.

4 Click [Yes]

- Deletes the setting file for the status monitor. If you do not want to delete it, click [No].
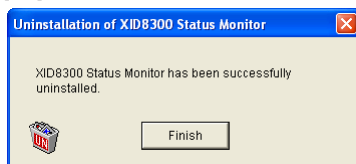
5 Click [Finish]

- Exits uninstallation.

IPSec

Setting Procedures

① Request for Certificate	PC1	⑨ IPSec Communication
② Issuance of Certificate	PC1.pfx CA.cer	
① Request for Certificate	PC2	⑨ IPSec Communication
② Issuance of Certificate	PC2.pfx CA.cer	
③ Request for Certificate	⑤ Export Printer01.pfx ⑦ Download	Printer
④ Issuance of Certificate	⑥ Export CA.cer ⑧ Download	Printer01.pfx CA.cer

Certification Authority
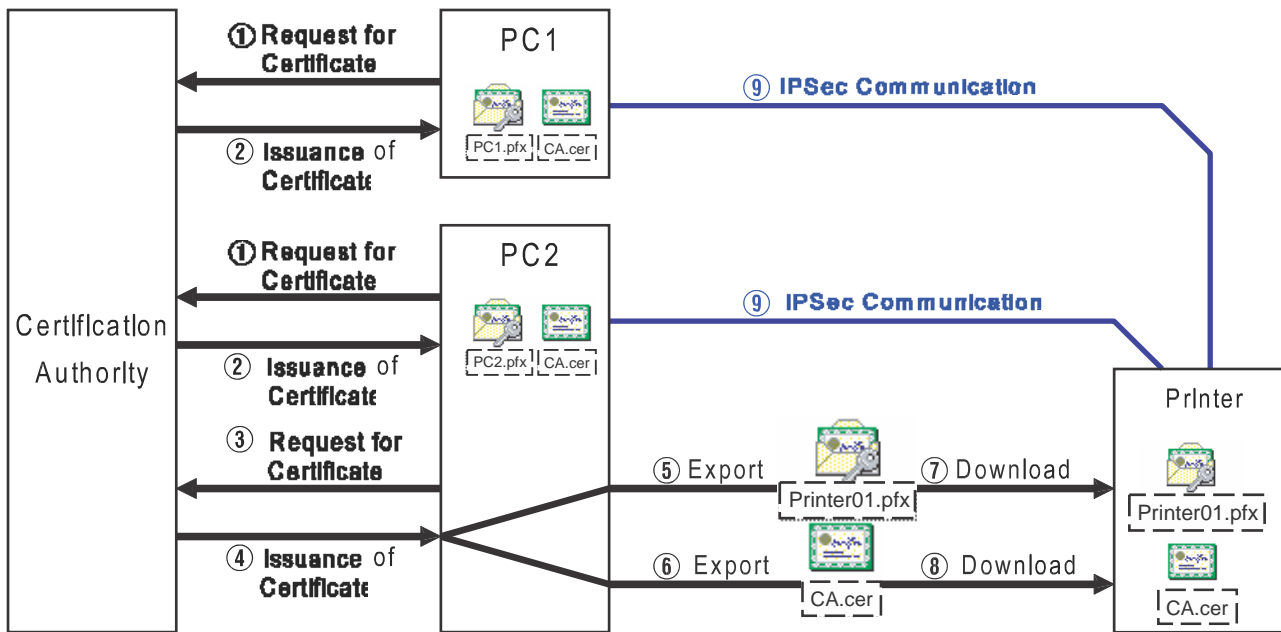
Certificate Authentication

A Request the "PC Certificate" from the certification authority.

B The "PC Certificate" and "Certification Authority Certificate" are issued by the certification authority. Install these on the PC.

C Request the "Printer Certificate" from the certification authority.

D The "Printer Certificate" and "Certification Authority Certificate" are issued by the certification authority. Install these on the PC.

E Export the "Printer Certificate" and save it in a file.

F Export the "Certification Authority Certificate" and save it in a file.

G Connect the printer via USB, and download the "Printer Certificate" using the status monitor.

H Connect the printer via USB, and download the "Certification Authority Certificate" using the status monitor.

I 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 A to D above.

Preshared Key Authentication

A Connect the printer via USB, and download the "Preshared Key File" using the status monitor.

B 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
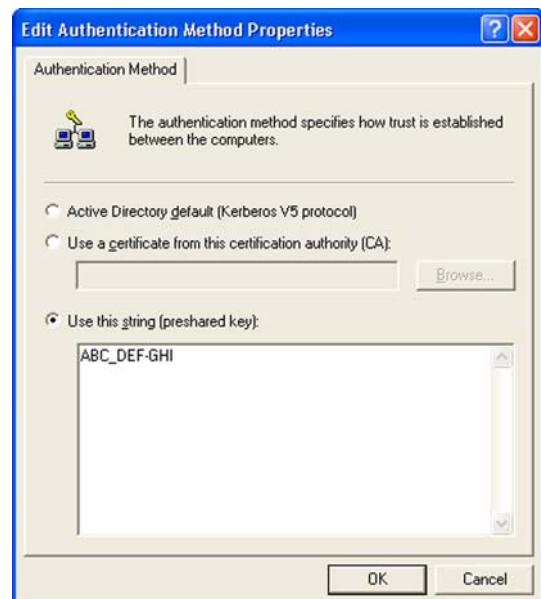
Setup

3 Make use of applications such as Windows Notepad to create a presharedkey string, and save it as a file with the extension ".key"
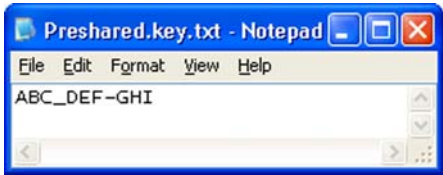
- After saving, this file will be downloaded as the "Preshared Key File" when setting "Preshared Key Authentication" using the status monitor.
- ASCII characters that can be used for the preshared key of the printer are as follows. The maximum length is 255 characters.

	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.

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
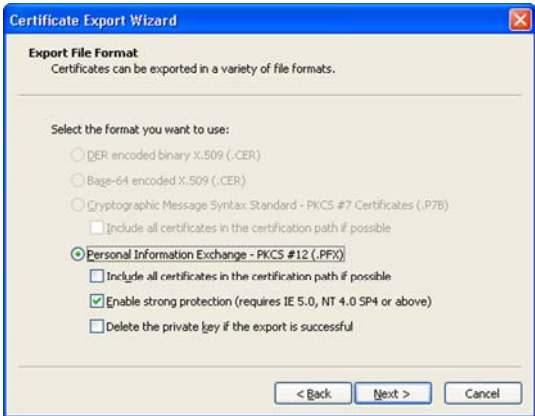
- The format is "PKCS#12". Make sure that you specify a password. The file is saved with the extension ".pfx".
- After saving, this file will be downloaded as the "Printer Certificate File" when setting "Certificate Authentication" using the status monitor.
- ASCII characters that can be used for the 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" (A page 55)

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" (A page 55)

Setup

Printer Driver Settings

Setting Example

[Setup] Tab
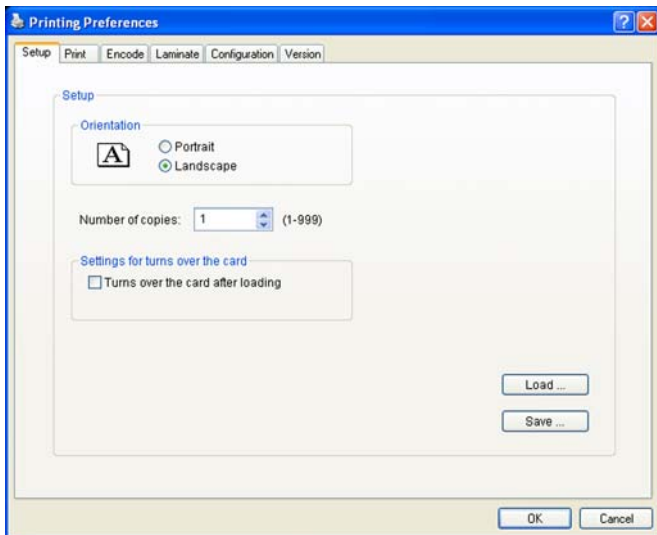
○ **Orientation**

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
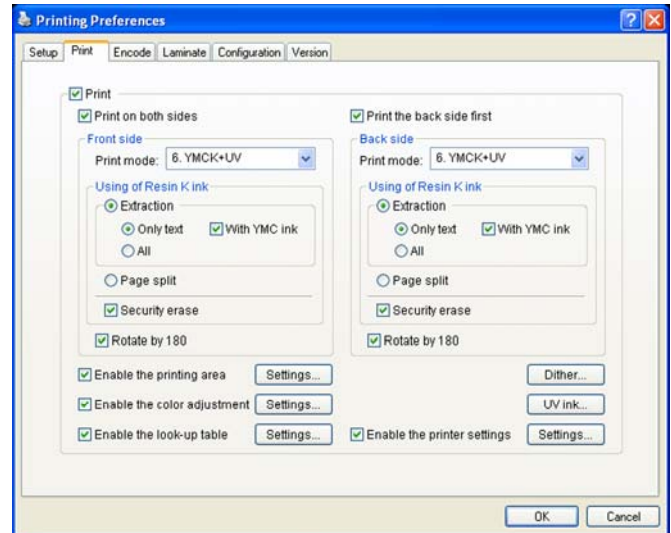
○ **Print**

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 ink	:	Prints the background of the specified black color 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 28)

❍ **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 29)

❍ **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 29)

❍ **[Dither...] button**

For specifying settings related to dithering.
Set a value in the [Dither] dialog.
"[Dither] Dialog Box" (Ⓐ page 30)
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 30)
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 34)

▪ [Settings...] button

Opens the [Printer settings] dialog.
"[Printer settings] Dialog Box" (Ⓐ page 33)

[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.
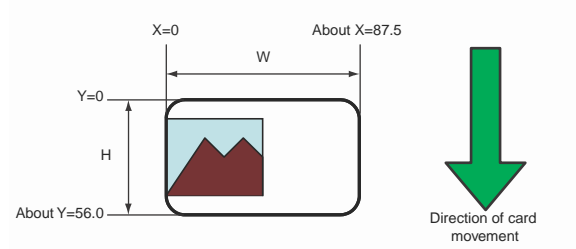
○ Rectangular region

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. Peeloff:
  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.

○ [Delete] button

Deletes the information selected in the list.

○ [Delete All] button

Deletes all registered information.

○ Peeloff ink energy

Print density of the peel-off ink.
Do not alter the following values.

- E1: 225
- E2: 160
- E3: 160

○ Setting values

The following requirements must be satisfied.
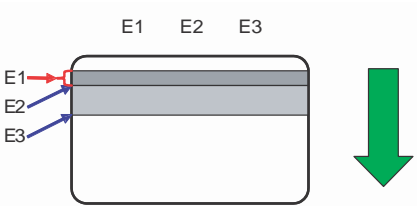
The following values are recommended when peel-off printing is performed on the ISO magnetic stripe area of the card.

X	Y	W	H	Ink	Side
0	0	87.46	17.86	1. Peeloff	1. Front
0	0	87.46	21.42	2. YMCK	1. Front

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.

[Color] Dialog Box

Settings related to color adjustment.

[Look up table] Dialog Box

Settings related to the look-up table.
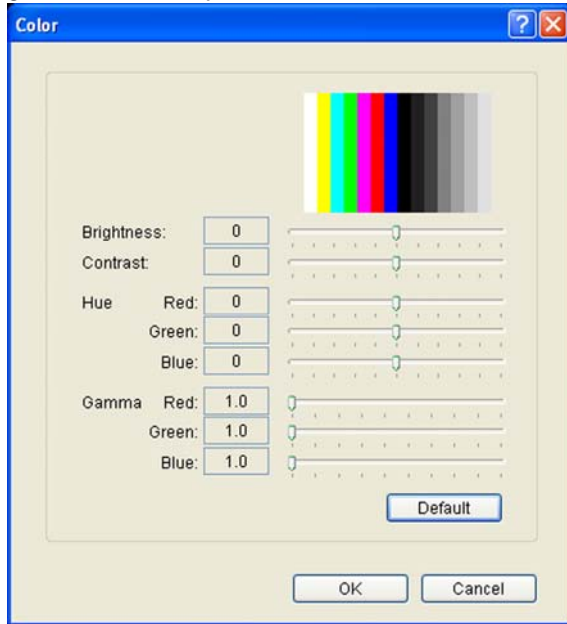
○ **Brightness**

Brightness level.

○ **Contrast**

Contrast level.

○ **Hue**

Hue level.

○ **Gamma**

Gamma level.

○ **[Default] button**

Restores the settings to the default values.

○ **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.

○ **[Add] button**

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

○ **[Delete]**

Deletes the information selected in the list.

○ **[Delete All]**

Deletes all registered information.

○ **File structure of the look-up 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.

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[Dither] Dialog Box

Settings related to dithering.
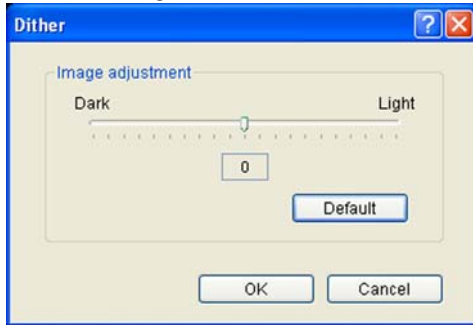
Cautions:

- 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

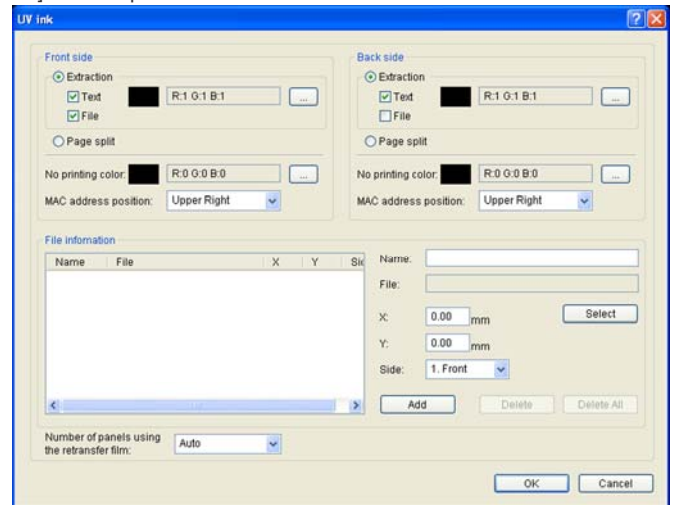Settings related to the data to be printed using the UV ink. Settings for the [MAC address position] and [Number of panels using the retransfer film] can be specified in this section.

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" (A page 31)

- ˅ 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" (A page 31)

○ 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.

- A Upper Right:
  Upper right position
- B Lower Left:
  Lower left position

"MAC Address Position" (A page 31)

○ **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" (A page 32)

○ **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" (A page 32)

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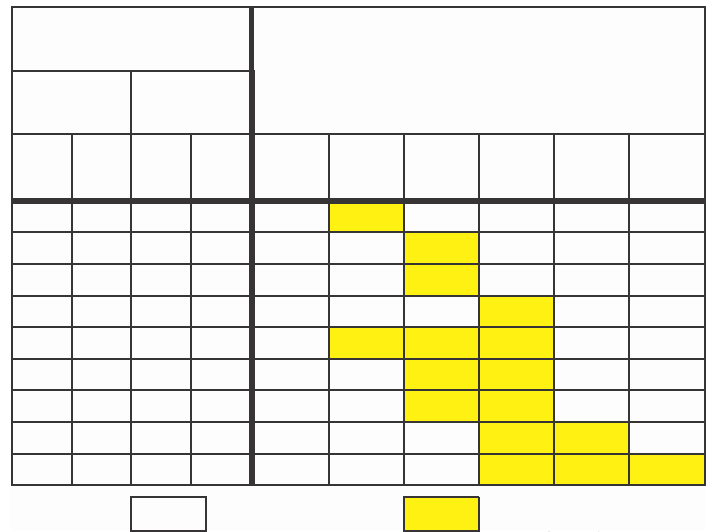
- When [Page split] is not set, UV ink data is extracted from the YMC ink data, or the UV ink image file is used.

MAC Address Position

- In the case of UV ink printing, the printer always prints 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**
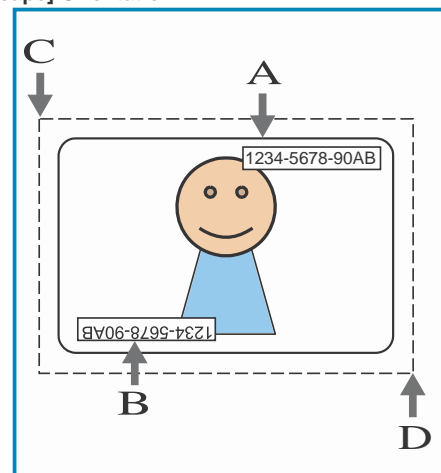
A MAC address printing position when [Upper Right] is selected
B MAC address printing position when [Lower Left] is selected
C (X=0, Y=0)
D (X = approx. 87.5 mm, Y = approx. 56.0 mm), (X = 1035 pixel, Y = 663 pixel)

MAC Address Printing Position	Starting X	Starting Y	Width	Height
A Upper Right	64.69 mm	1.52 mm	19.47 mm	2.88 mm
	764 pixel	18 pixel	230 pixel	34 pixel
B Lower Left	3.56 mm	51.73 mm	19.47 mm	2.88 mm
	42 pixel	611 pixel	230 pixel	34 pixel

○ **[Portrait] Orientation**

A MAC address printing position when [Upper Right] is selected
B MAC address printing position when [Lower Left] is selected
C (X=0, Y=0)

MAC Address Printing Position	Starting X	Starting Y	Width	Height
A Upper Right	51.82 mm	64.69 mm	2.88 mm	19.47 mm
	612 pixel	764 pixel	34 pixel	230 pixel
B Lower Left	1.61 mm	3.56 mm	2.88 mm	19.47 mm
	19 pixel	42 pixel	34 pixel	230 pixel

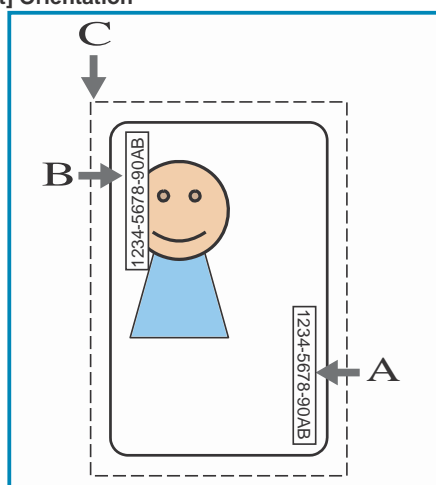▪ The above printing position setting for the MAC address is always effective regardless of the printer unit settings.
The above measurements show the relative position from the starting point of the image. As such, the actual printing position on the card may be slightly different from the abovementioned 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" (A page 59)

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 panels		Print in 2 panels
	YMC Ink	Print in 1 panels * The YMC ink is not printed at areas where it overlaps with the UV ink.	Print in 2 panels	
	K Ink	Print in 1 panels * The UV ink is not printed at areas where it overlaps with the K ink.	Print in 2 panels	
Printing data inside the MAC address area	None	Print in 1 panels		Print in 2 panels
	YMC Ink	Print in 1 panels * Does not print using the YMCK ink.	Print in 2 panels	
	K Ink		Print in 2 panels	
	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.
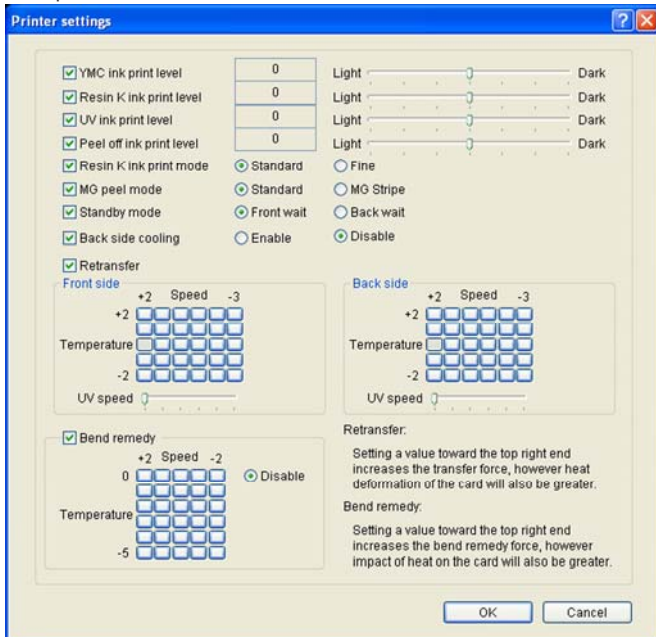
○ YMC ink print level

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.

○ Peel off ink print level

Print density of the peel-off ink.
Use the [+] values to increase, and [-] values to decrease the density.

○ 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 for setting the standby position of the card during double-sided printing until the laminator is ready. [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. Click on the corresponding square to change the value.
Setting a value toward the top right end increases the transfer force. However, the stronger heat also increases the deformation of the card.

- Temperature

Temperature of the retransfer heating roller.

- Speed

Retransfer 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.

○ Bend remedy

Settings related to bend remedy.
Click on the corresponding square to change the value.
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.
To disable bend remedy, select the [Disable] button.

- Temperature

Temperature of the bend remedy heating roller.

- Speed

Bend remedy 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.
- There is only one standard retransfer temperature. Altering the retransfer temperature on one side changes the temperature on the other 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
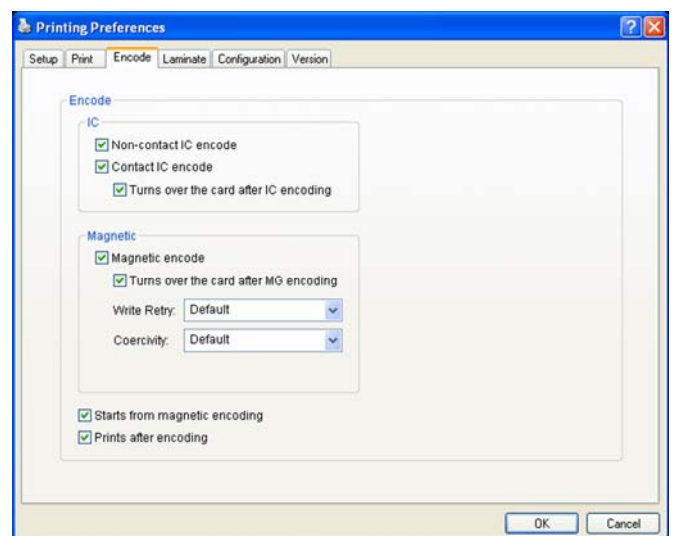
Setup

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.

Starts from magnetic encoding
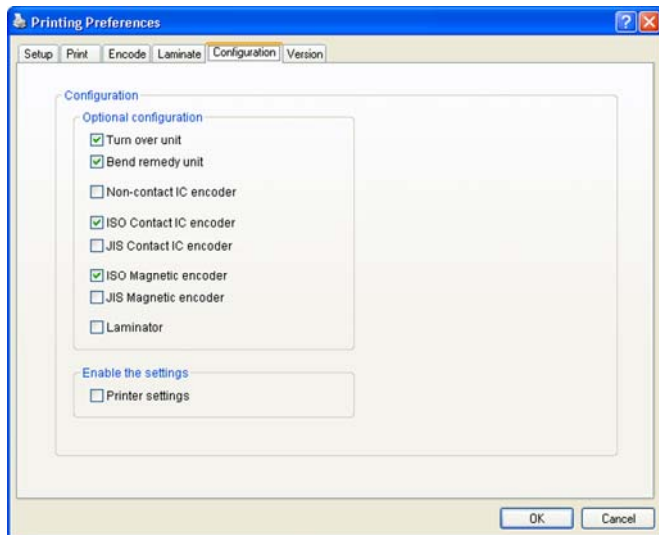Unchecked : Encodes in the IC▷Magnetic sequence.

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.

[Configuration] Tab

Memo:
■ These settings can be altered only when the user logs into the printer driver settings page with administrator authority (Administrators group).
This tab is displayed in the read-only mode when a user without administrator authority logs in.

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" (A page 27)

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.
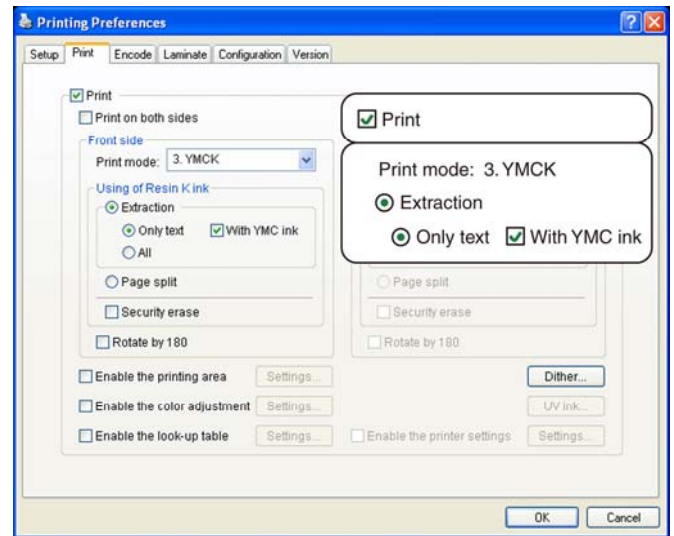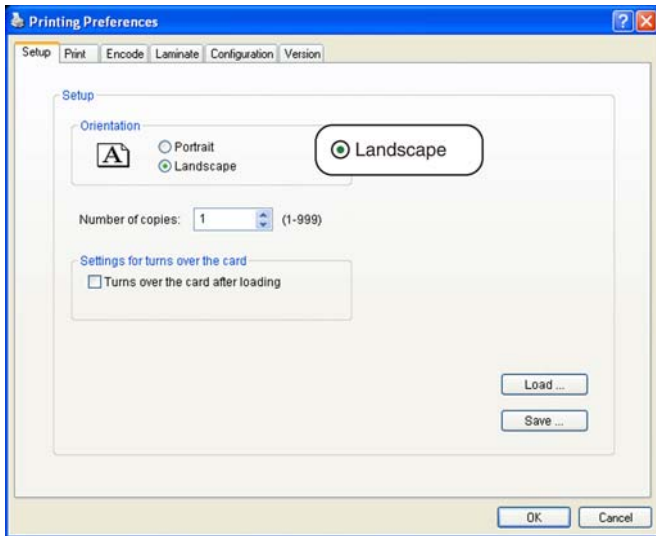
[Version] Tab

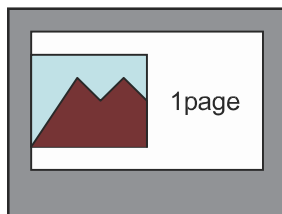Displays the version and copyright information.
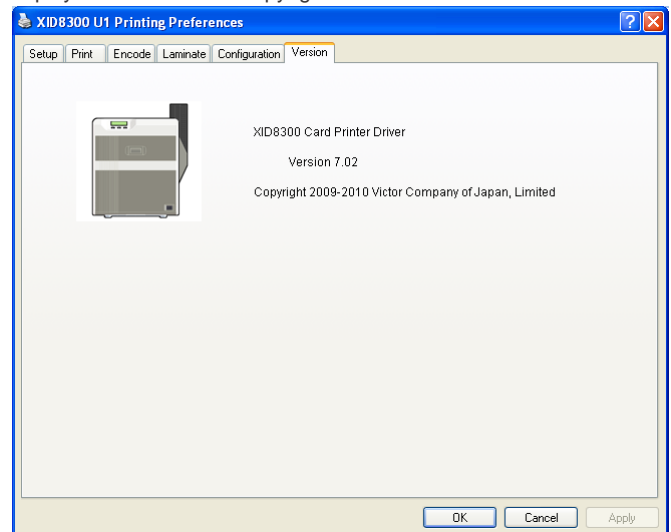
Example of Printer Setting

Single-sided Printing (Landscape)

❍ **Application software**
- Graphic: colored
- Text: black

❍ **Printer**
- Graphic: YMC ink
- Text: YMC ink + Resin K ink

Setup

Single-sided Printing (Portrait)

○ **Application software**

- Graphic: colored
- Text: black
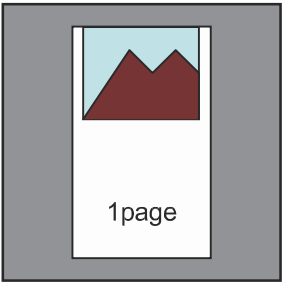
○ **Printer**

- Graphic: YMC ink
- Text: Resin K ink

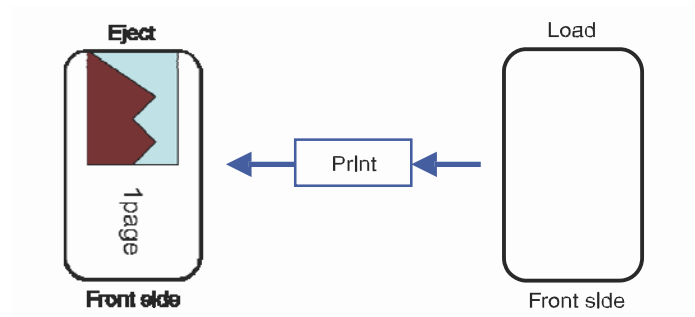## Double-sided Printing (Default)
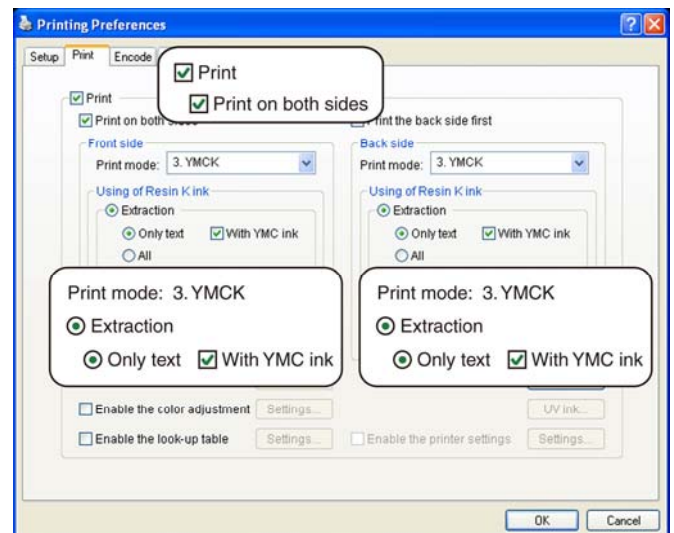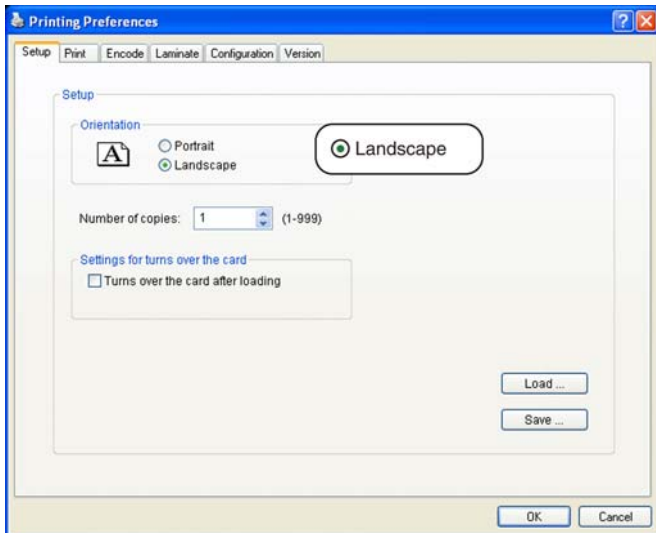
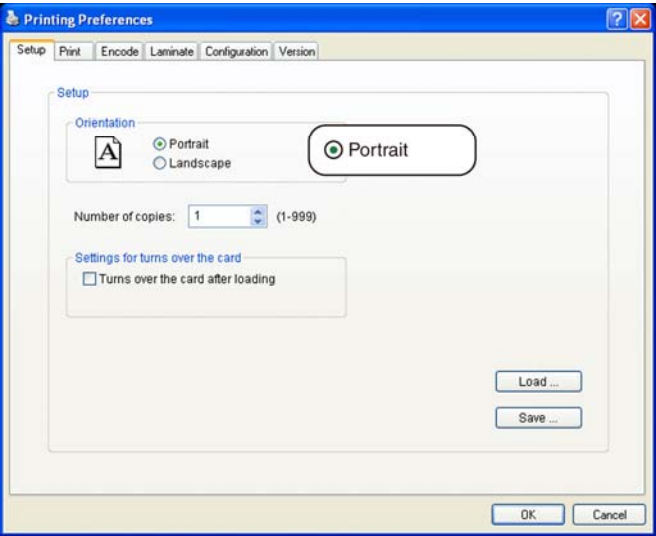○ **Application software**
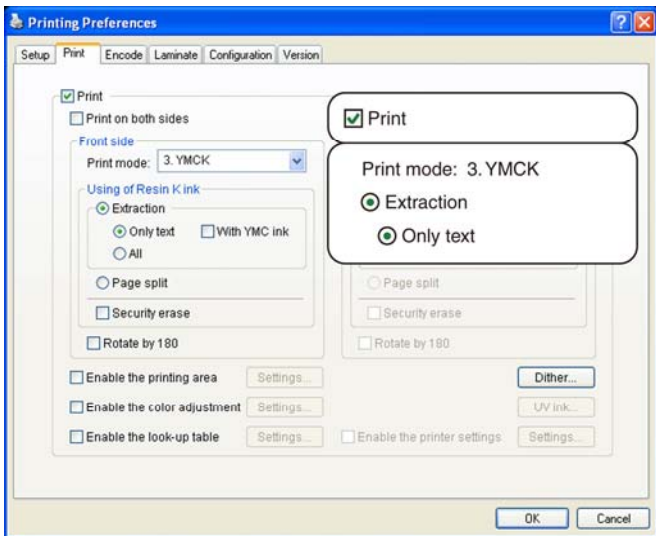- Graphic: colored
- Text: black
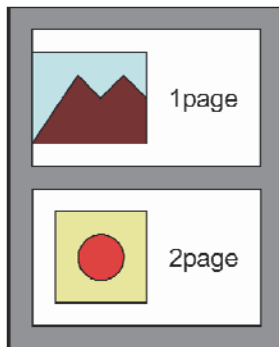
○ **Printer**
- Graphic: YMC ink
- Text: YMC ink + Resin K ink

Double-sided Printing (Single-side Lamination)
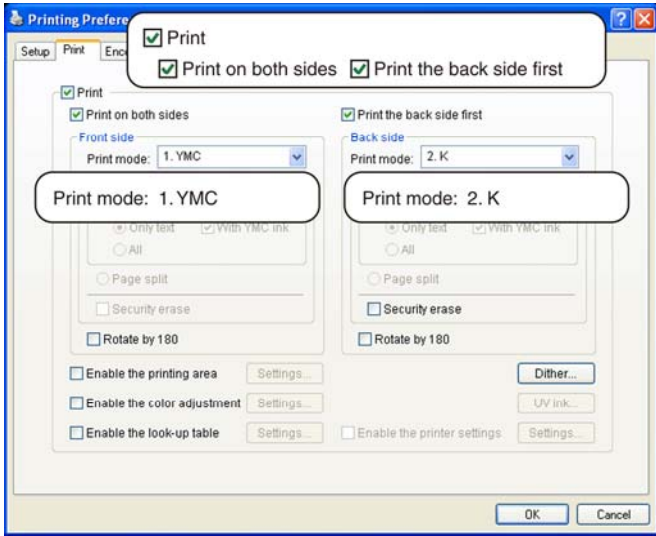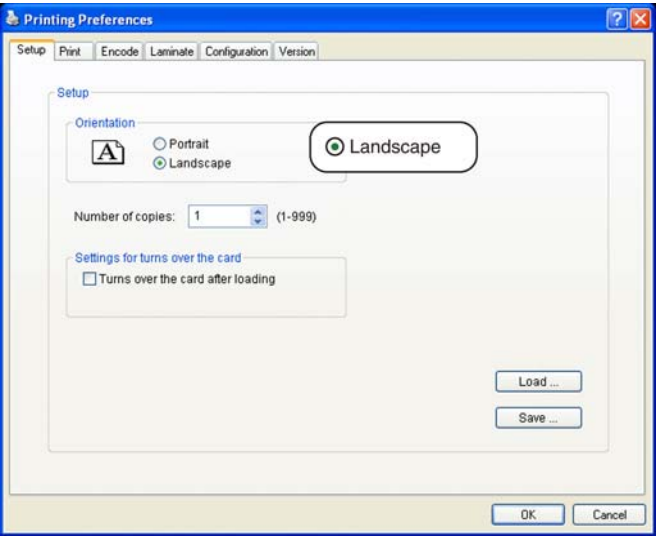
○ **Application software**

Page 1
- Graphic: colored
- Text: colored

Page 2
- Graphic: black
- Text: black
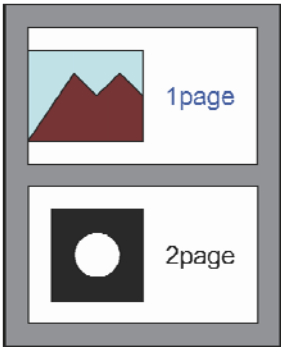
○ **Printer**

Front side
- Graphic: YMC ink
- Text: YMC ink

Back side
- Graphic: Resin K ink
- Text: Resin K ink
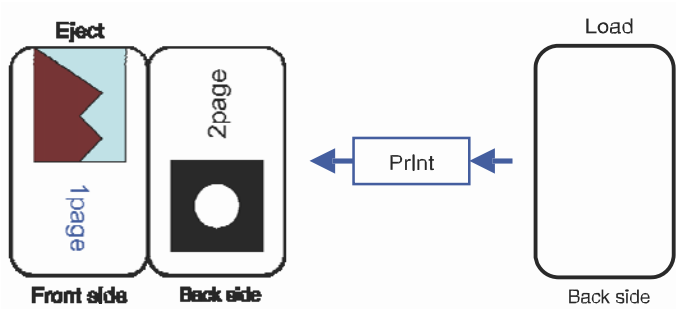
Memo:
- If page 2 is set as colored, printing is performed using the Resin K ink after dithering is complete.

"[Dither] Dialog Box" (A page 30)

Single-sided UV Printing
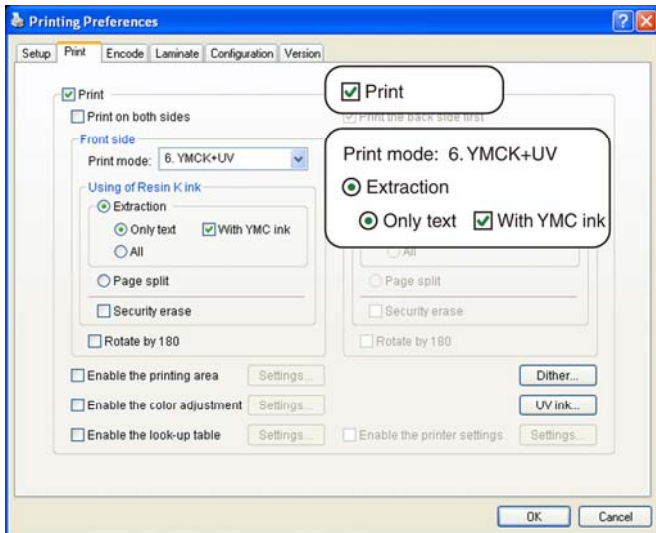
Clicking [UV Ink...] opens the [UV Ink] dialog box.
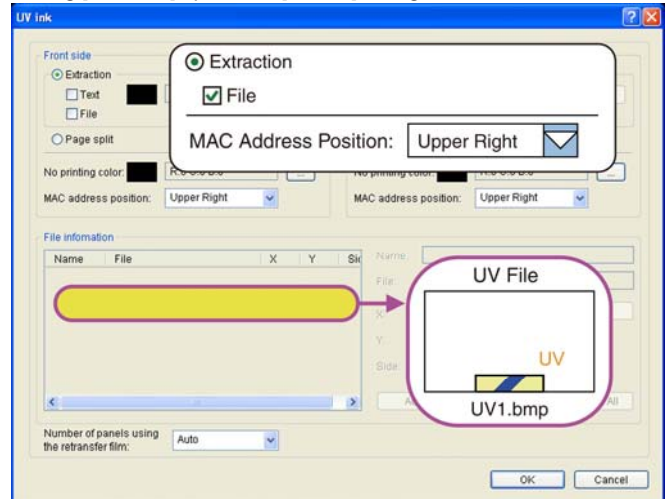
○ **Application software**
- Graphic: colored
- Text: black
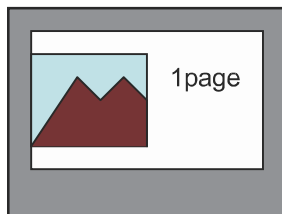
○ **Printer**
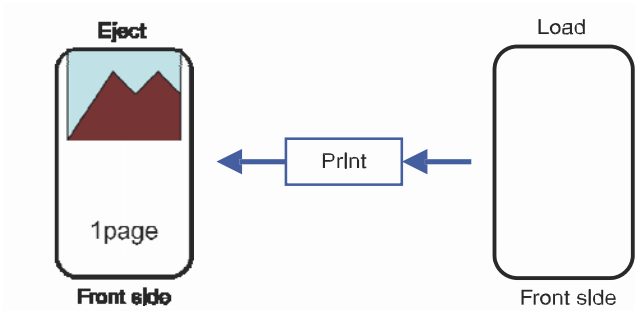- Graphic: YMC ink
- Text: YMC ink + Resin K ink
- UV1.bmp: UV ink
- MAC address: UV ink
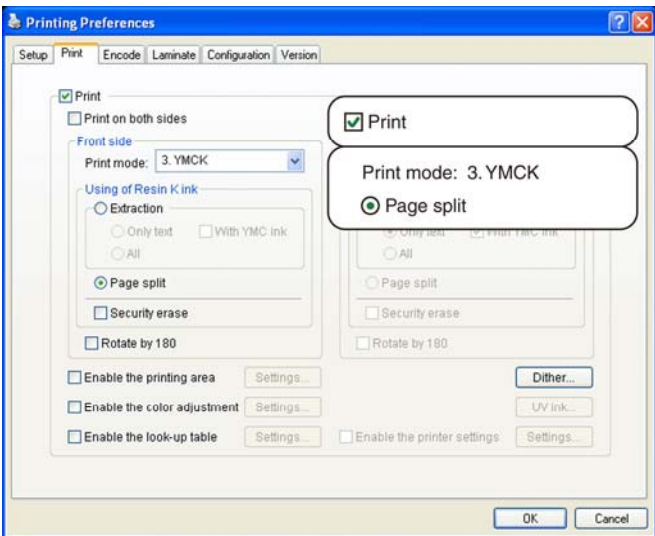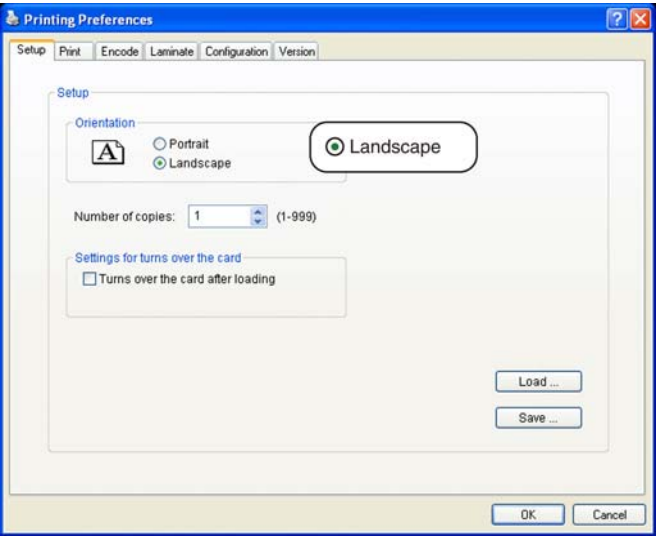
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Page Split

○ **Application software**

Page 1
- Graphic: colored
- Text: colored

Page 2
- Graphic: black
- Text: black
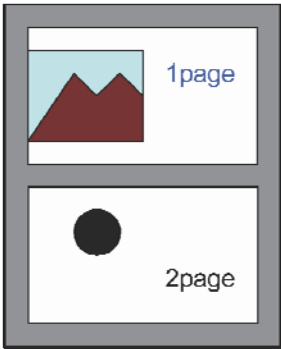
○ **Printer**
- Graphic: YMC ink + Resin K ink
- Text: YMC ink + Resin K ink
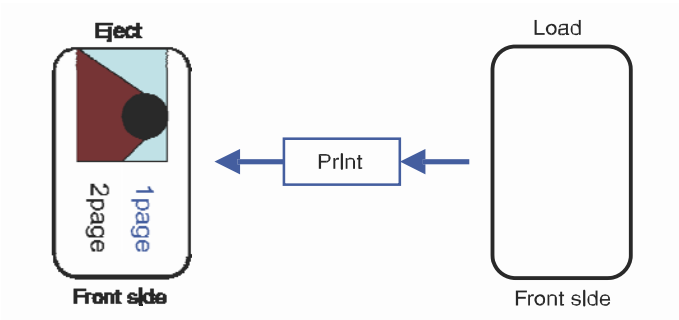
Example of Encode Setting

Encoding Only (ISO Card)
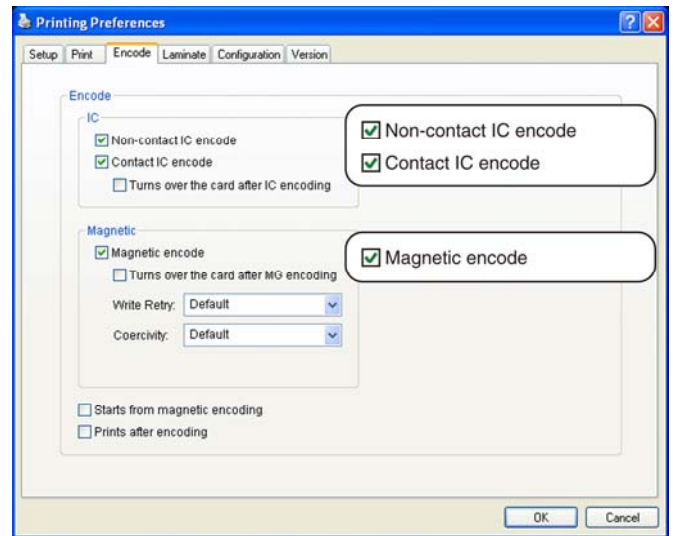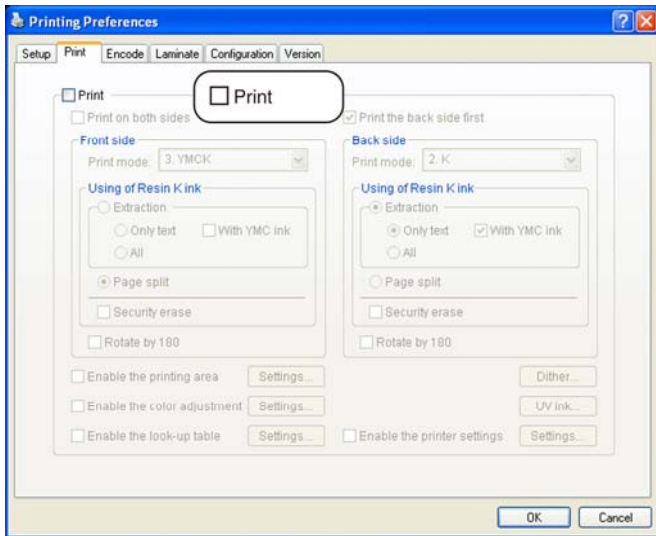
❍ **Application software**
- Graphic: colored
- Text: black
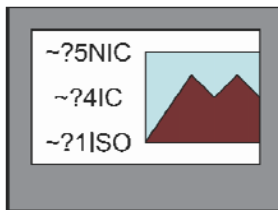
❍ **Printer**
- Graphic: none
- Text: none

❍ **Inline Encoding**
- Non-contact IC encode data: NIC
- Contact IC encode data: IC
  - ISO track 1 magnetic encode data: ISO
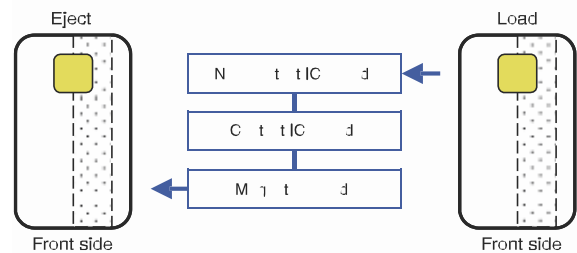
Encoding and Printing (ISO Card)
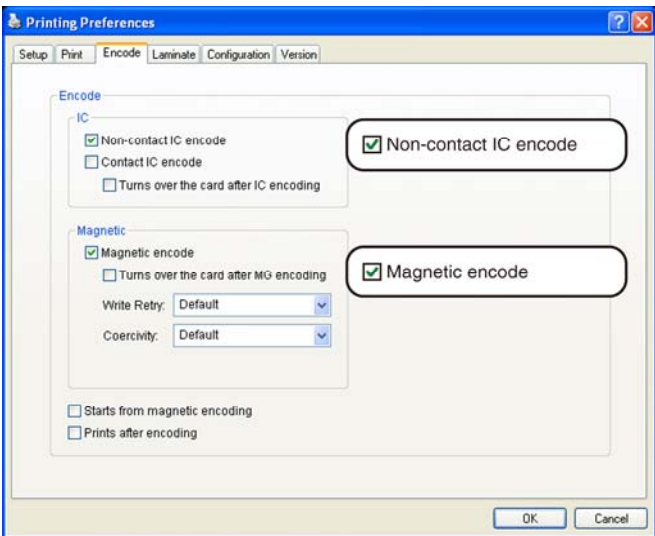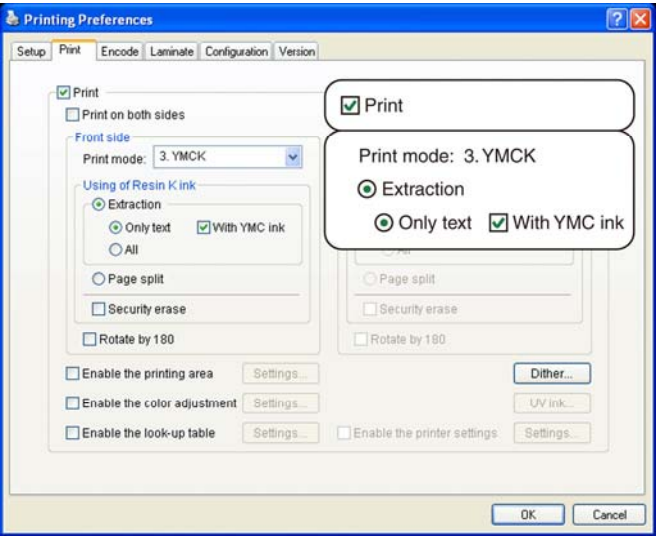
○ **Application software**
- Graphic: colored
- Text: black
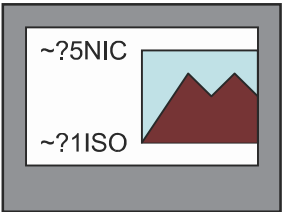
○ **Printer**
- Graphic: YMC ink
- Text: YMC ink + Resin K ink

○ **Inline Encoding**
- Non-contact IC encode data: NIC
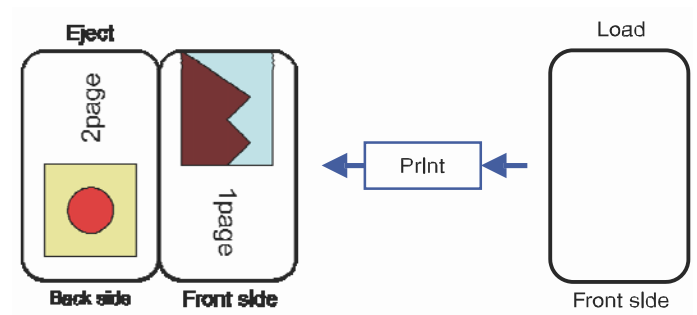- ISO track 1 magnetic encode data: ISO
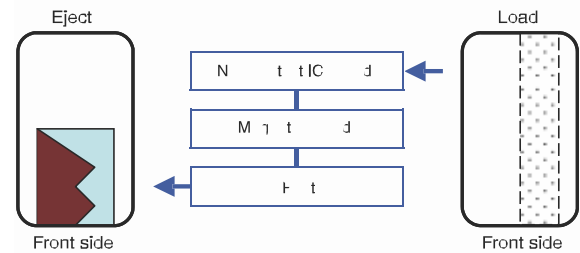
Encoding and Printing (JIS Card)
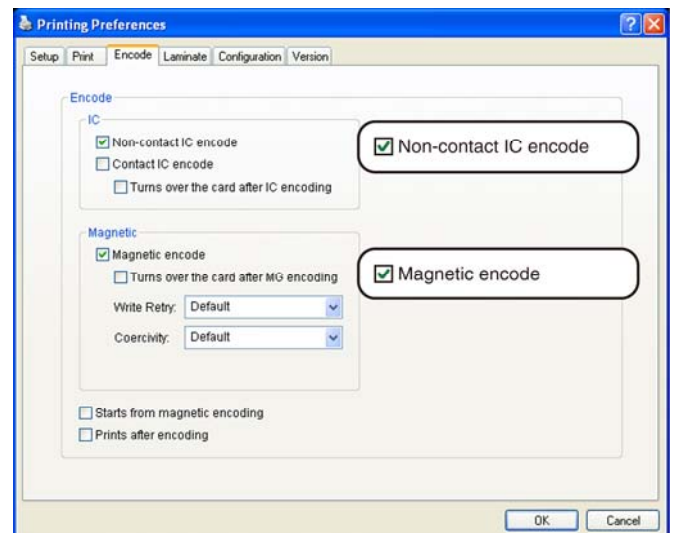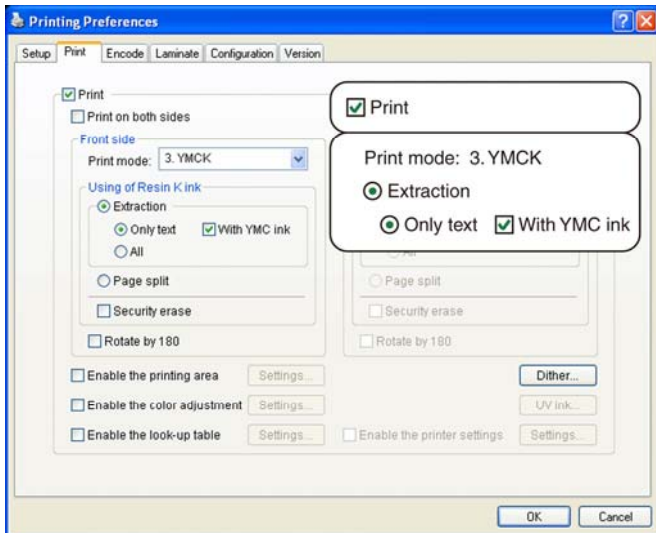
○ **Application software**
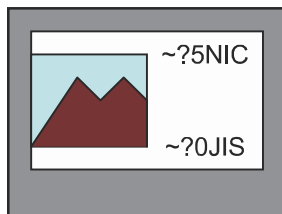
- Graphic: colored
- Text: black

○ **Printer**

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

○ **Inline Encoding**

- Non-contact IC encode data: NIC
- JIS2 magnetic encode data: JIS

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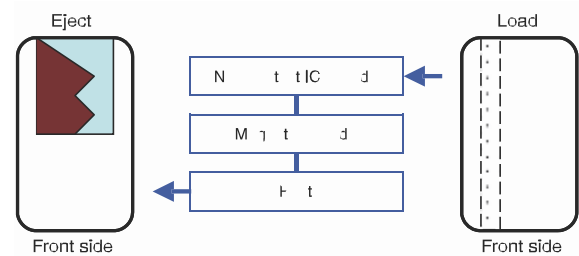
Card Turn Over Illustration

Turns over the card after loading

Turns over the card after IC encoding

Turns over the card after MG encoding

| Eject | Print | Magnetic encode | Contact IC encode | Non-contact IC encode | Load |

Double-sided

Logical configuration of printer
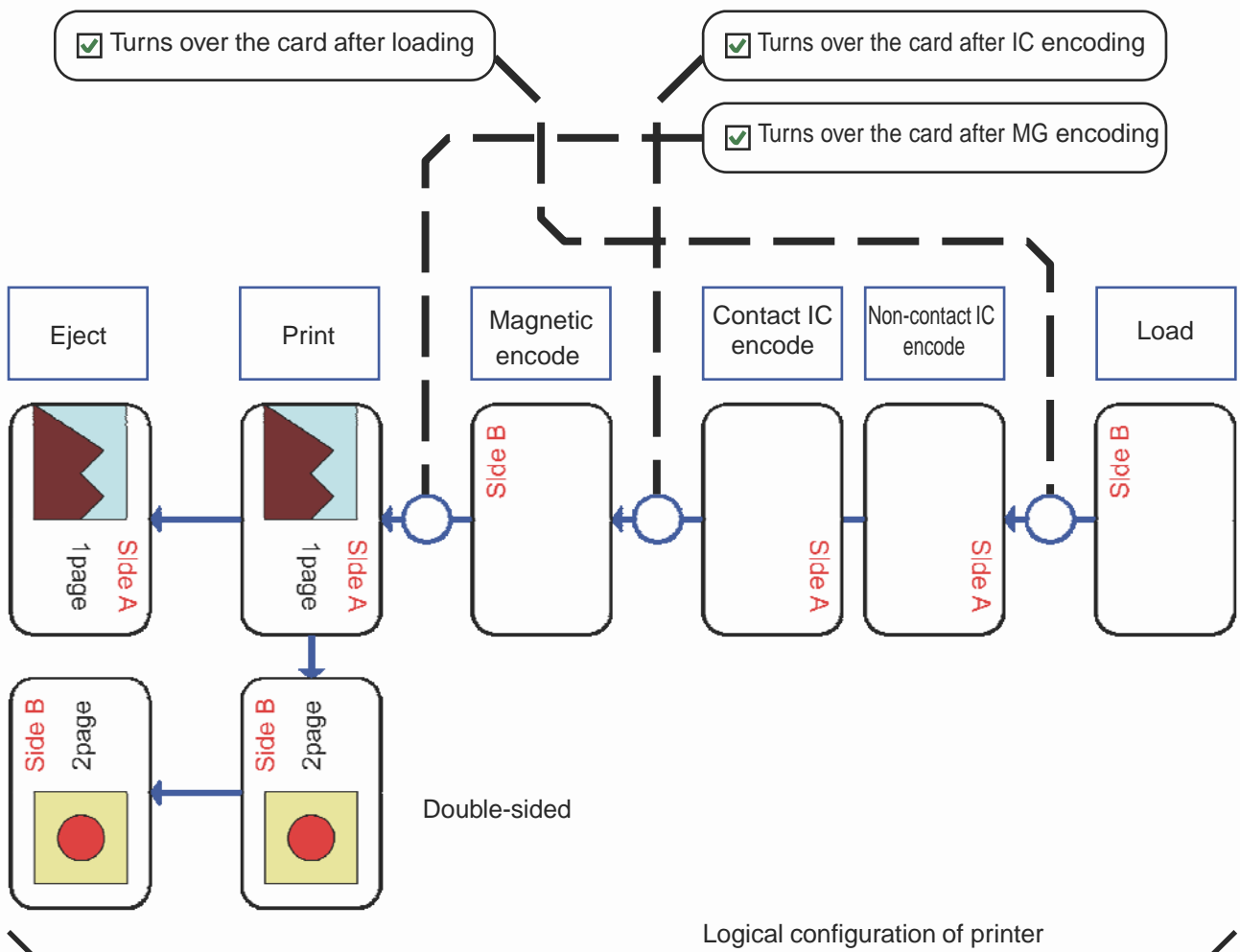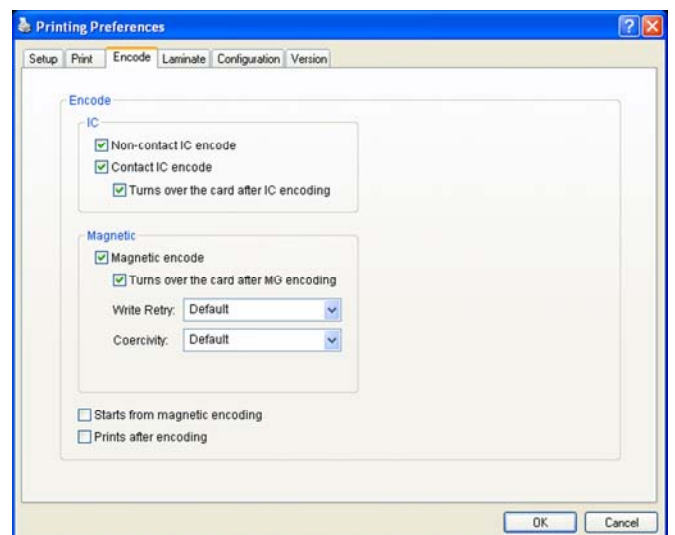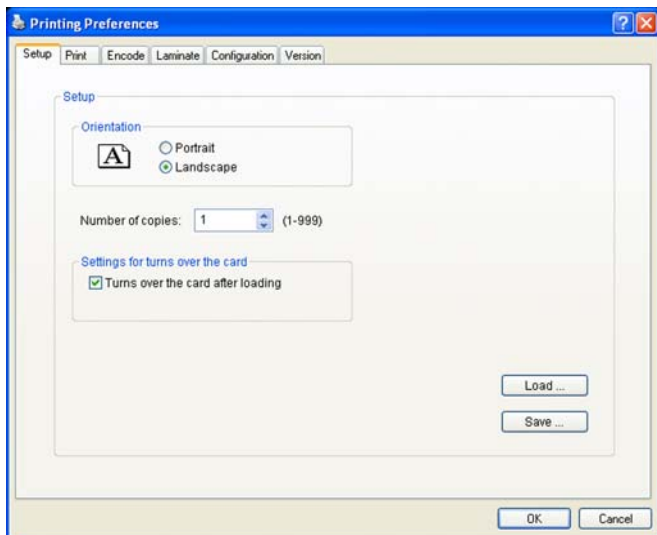
Port Monitor Settings

- "[Property] Tab" (A page 45)
- "[Version] Tab" (A page 45)

[Property] Tab

❍ USB connection
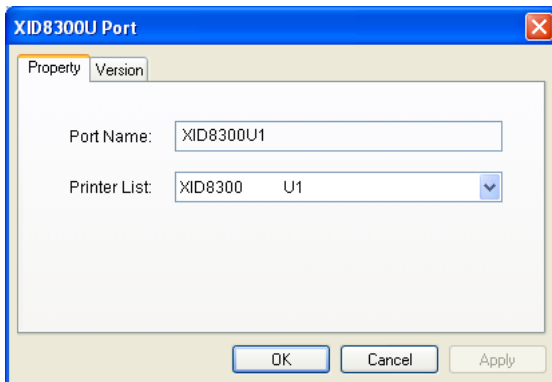
❍ Port Name

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.

❍ Ethernet (LAN) connection
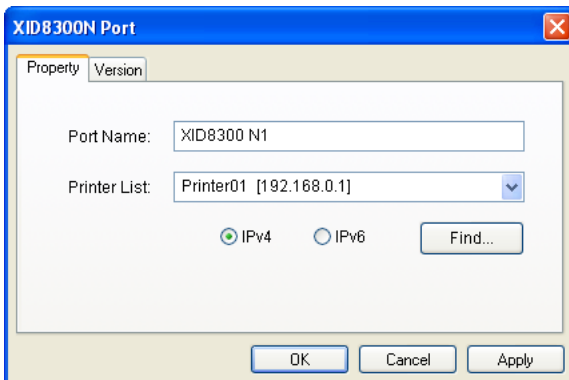
❍ Port Name

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].

❍ [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.
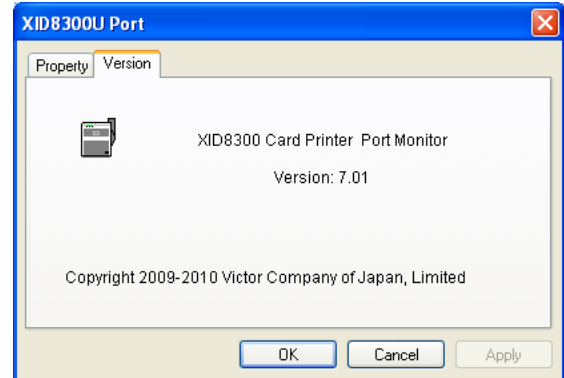
Status Monitor Settings

❍ What is status monitor?

The status monitor is software for displaying the printer status as well as specifying various printer settings.

Cautions:
- The printer driver needs to be installed on the computer. You can install the printer driver using the CD-ROM supplied with the printer.
- Use the status monitor with the power of the printer turned on.

❍ **"Executing the status monitor" (A page 46)**

❍ **"Screen Configuration" (A page 47)**

- "[Printer Status] Tab" (A page 47)
- "[Printer Setting] Tab" (A page 49)
- "[Retransfer] Tab" (A page 50)
- "[Bend Remedy] Tab" (A page 51)
- "[Media Setting] Tab" (A page 51)
- "[Property] Tab" (A page 52)
- "[Printer Select] Tab" (A page 53)
- "[Security Lock] Tab" (A page 56)
- "[Others] Tab" (A page 56)

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. If a user logs in without administrator authority, the printer settings appear in the read-only mode, and they cannot be specified on the status monitor.
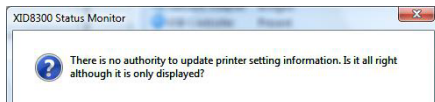
❍ Windows XP

Cautions:
- If a [Windows Security Alert] screen appears upon starting up the status monitor, click [Unblock].
  The status monitor will fail to function properly if you click on buttons other than [Unblock].

❍ Windows Vista

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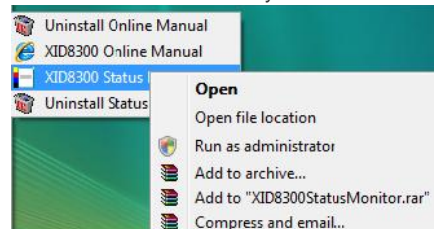
Memo:
- Even if a user is logged on with the administrator account on Windows Vista, the user may be regarded as one without administrator authority when running the status monitor.

Cautions:
- If a [Windows Security Alert] screen appears upon starting up the status monitor, click [Unblock].
  The status monitor will fail to function properly if you click [Keep blocking].

Screen Configuration
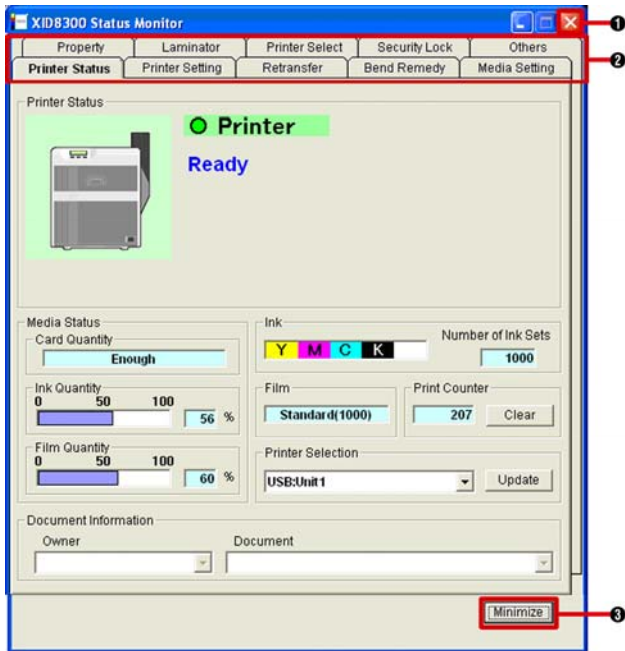
A Close button

Closes the status monitor.

B 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.

- 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.

C 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.
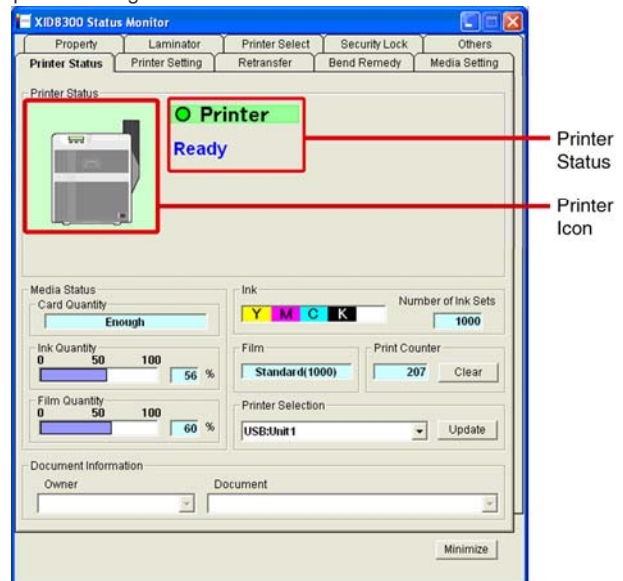
○ Printer Status

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

- Cleaning of the card feed roller and heating roller is required.

"Card Feed Roller/Heating Roller" (A XID 8300 Instruction Manual page 34)

- 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" (A XID 8300 Instruction Manual page 58) .

Setup

○ Printer icons

The icon on the left is displayed when the printer is functioning normally. After printing more than 1000 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" (A XID 8300 Instruction Manual page 34) under "Maintenance".

[Under Normal Circumstances]   [When Roller Cleaning is Required]

○ List of Status Display Messages

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 in the ready mode. The printer is ready to start printing cards.
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.
Card Transporting	After card printing is complete, the printer returns to the Ready mode.
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 exit the Power Saving mode, reset using the operation panel of the printer. For more details, refer to" Initialization" (A XID 8300 Instruction Manual page 16) under "Adjusting the Printer Settings".

○ 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 "Cards have run out" (A XID 8300 Instruction Manual page 31) under "Adjusting the Printer Settings".

○ 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" (A XID 8300 Instruction Manual page 52) under "Printing Media".

○ 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 mutiple 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" (A XID Instruction Manual page 53) 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.
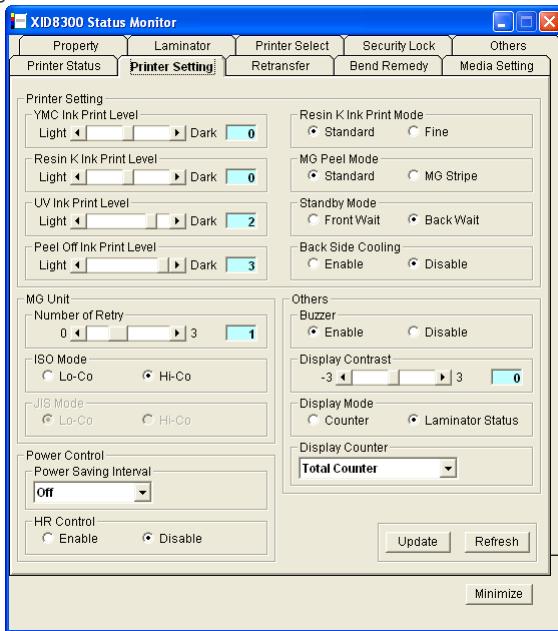
❍ Printer Setting

❍ **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.

❍ **Peel Off Ink Print Level**

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

❍ **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 during double-sided printing until the laminator is ready. 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.

❍ 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].

❍ Others

❍ **Buzzer**

For setting the warning sound when an error occurs or when the cards run out, as well as the confirmation sound upon pressing B on the operation panel of the printer unit.
The buzzer does not sound when [Disable] is selected. The default setting is [Enable].

❍ **Display Contrast**

For setting the contrast of the printer's operation panel display.

❍ **Display Mode**

For setting the information to be displayed on the printer's operation panel.

❍ **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" (A XID 8300 Instruction Manual page 18) under "Setting Using the Operation Panel".

❍ [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.

Setup

[Retransfer] Tab

The retransfer settings screen enables you to set the conditions of retransfer to the card.
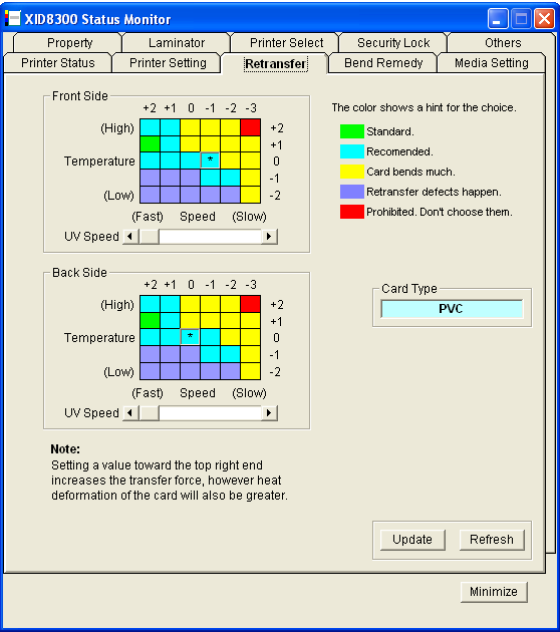
Front/Back side settings

○ **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.

○ **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" (A page 51) 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.
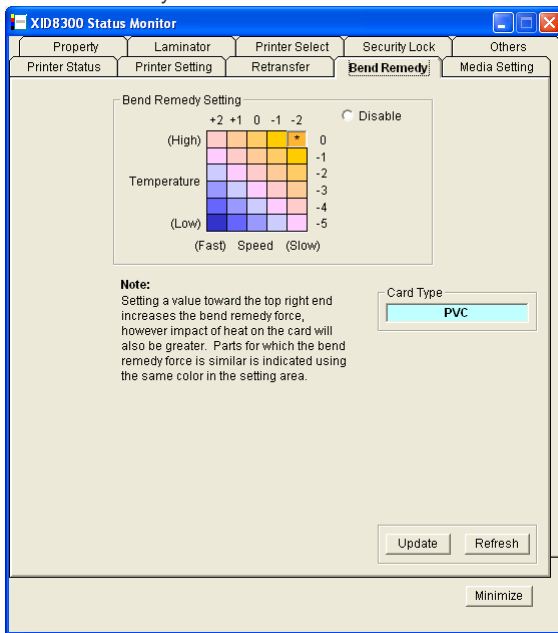
○ **Bend Remedy Setting**

○ **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" (A page 51) 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.
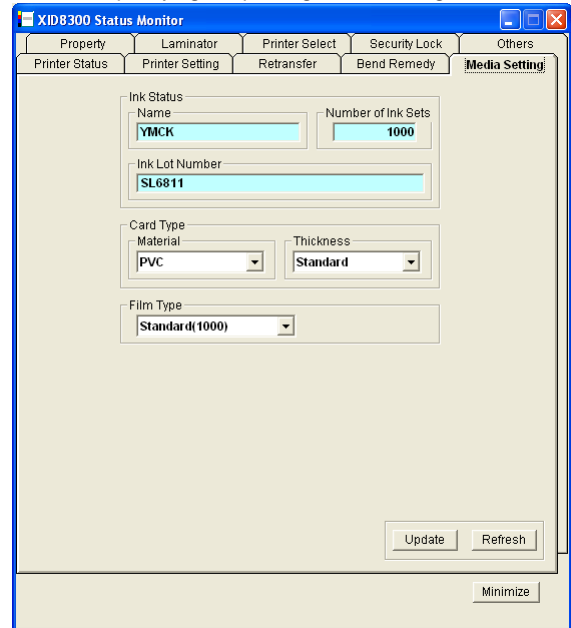
○ **Ink Status**

○ **Name**

Displays the name of the loaded ink ribbon. A message indicating the cause appears when the ink ribbon cannot be recognized.
For more details, refer to "Ink ribbon cannot be recognized" (A page 52) .

○ **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" (A page 50)
"[Bend Remedy] Tab" (A page 51)

○ **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" (A XID 8300 Instruction Manual page 55)
- If the material of the cards to be used varies across printers, set the card material separately.

Setup

❍ 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.

❍ Ink ribbon cannot be recognized
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.

[Property] Tab

This tab displays the device configuration.

❍ Optional Unit Configuration

Displays the configuration of optional devices.

Cautions:
- If a setting other than [None] is displayed for the contact or non-contact 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" (A page 48)

❍ 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" (A page 109)

❍ Printer Total Counter (total counter)

Displays the number of cards that are correctly printed.
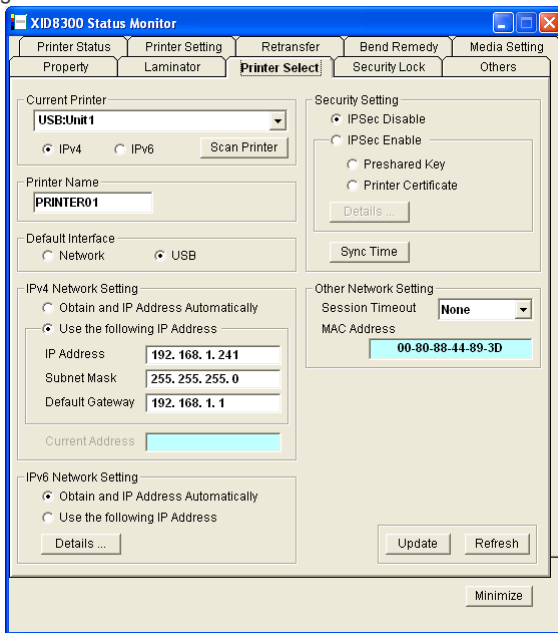
❍ Thermal Head (head counter)

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.

[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**
  A Click [Scan Printer].
  B Printer search is performed, and the result is displayed in the pull-down menu.

○ **Searching printers for the IPv4 address**
  A Select [IPv4], and click [Scan Printer].
  B Printer search is performed, and the result is displayed in the pull-down menu.

○ **Searching printers for the IPv6 address**
  A Select [IPv6], and click [Scan Printer].
  B 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**
  A Select [IPv4], and enter the IPv4 address in the pull-down menu.
  B Click [Scan Printer] to display the registration confirmation dialog box.
  C Click [OK] to register the printer for the entered IP address to the pull-down menu.

○ **Registering printers for the IPv6 address**
  A Select [IPv6], and enter the IPv6 address in the pull-down menu.
  B Click [Scan Printer] to display the registration confirmation dialog box.
  C 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**
  A Select [IPv4], followed by selecting the printer to delete from the pull-down menu.
  B Select [Delete Printer] from the pull-down menu. A deletion confirmation dialog box appears.
  C Click [OK] to delete the selected printer from the pull-down menu.

○ **Deleting printers for the IPv6 address**
  A Select [IPv6], followed by selecting the printer to delete from the pull-down menu.
  B Select [Delete Printer] from the pull-down menu. A deletion confirmation dialog box appears.
  C 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.

m 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].
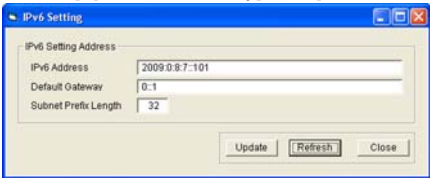
❍ Security Setting

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" (A page 19)

❍ 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.

❍ 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

- [Details...] button

Displays the [IPSec Setting] screen.
Downloads files required for IPSec authentication to the printer.

❍ **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...]
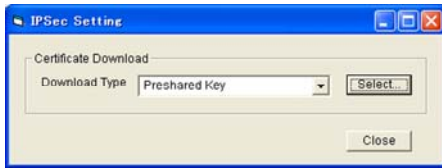
2 Select a preshared key file, and click [Write]
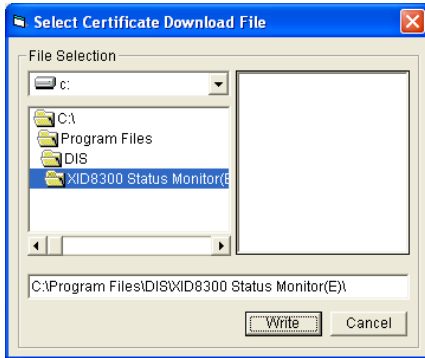
3 Click the [Close] button on the [IPSec Setting] screen

▪ IPSec setting for the printer is complete after closing the 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...]
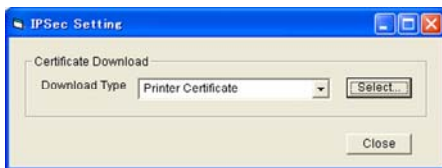
2 Select a printer certificate file, and click [Write]
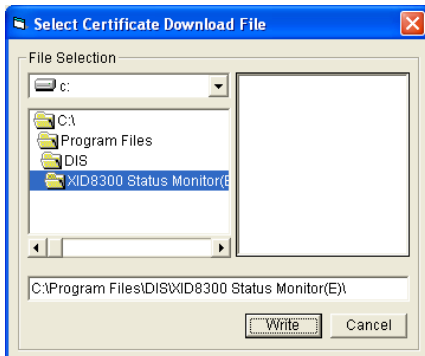
3 Enter the password for the printer certificate file, and click [OK]
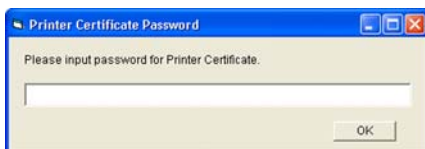
4 Select [CA Certificate] for [Download Type], and click [Select...]
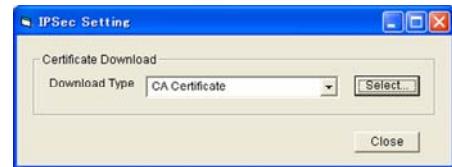
5 Select a certification authority certificate file, and click [Write]
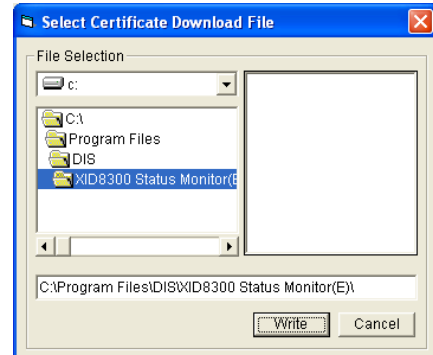
6 Click the [Close] button on the [IPSec Setting] screen

▪ IPSec setting for the printer is complete after closing the screen.

❍ **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.

❍ **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.
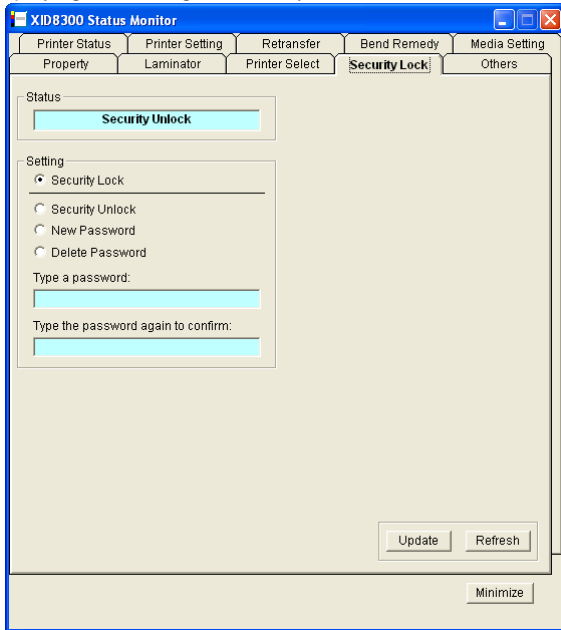
○ **Status**

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 servicing personnel.
- 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.

○ **[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.
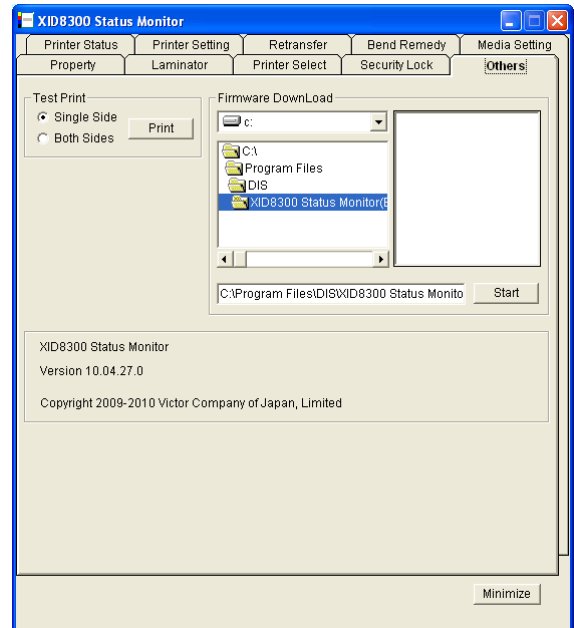
○ **Test Print**

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], and click [Print]

- Test print starts. The built-in standard color pattern of the printer is printed on a card.

○ **Firmware Download**

Updates the printer's firmware.

1 Perform the "Firmware Update" procedure on the operation panel of the printer

"Firmware Update" (A XID 8300 Instruction Manual page 17)

2 Select a file, and click [Start]

3 Follow the instructions on the screen

Cautions:
- For details on update of the printer's firmware, please consult the servicing personnel or our authorized dealers.
- The printer may not start up if update of the firmware fails.

○ **Software**

Displays the version and copyright information.

Inline Encoding

- "Character Code List" (A page 58)

Inline Encoding Format

- Inline encoding can be performed by enabling the settings in the [Encode] tab of the printer driver settings.

"[Encode] Tab" (A page 33)

- 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".
- 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.

A Textbox character strings of application software
B Character string to be printed on card
C Encoding data to be sent to ISO track 1

No.	Prefix (half-width character string)	Text string following prefix A	Usable character code list B	Max. string length C
1	~ ?0	String denotes JIS2 magnetic encoding data. D	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

A Make sure that the string is not broken, and use the same font.

B Encoding cannot be performed correctly if characters that do not conform with the usable character code list are used.

C The maximum string length is the number of characters including control codes and excluding prefixes.

D Half-width katakana characters can be used. For a list of usable characters, refer to the Katakana Character Code List.

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.

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.

b4	b3	b2	b1	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
					0	1	2	3	4	5	6	7
0	0	0	0	0				0	@	P	`	p
0	0	0	1	1			!	1	A	Q	a	q
0	0	1	0	2			"	2	B	R	b	r
0	0	1	1	3			#	3	C	S	c	s
0	1	0	0	4			$	4	D	T	d	t
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	~
1	1	1	1	F			/	?	O	_	o	DEL

A Range of usable text characters for 7-unit code
B Range of usable text characters for 6-unit code
C Range of usable text characters for 4-unit code
D Tilde character (Hexadecimal: 7E)

■ The start sentinel and end sentinel listed below cannot be used in the encoding data.

| Unit Code	Start Sentinel (Hexadecimal)		End Sentinel (Hexadecimal)	
4-unit code	;	(3B)	?	(3F)
6-unit code	%	(25)	?	(3F)
7-unit code	DEL	(7F)	DEL	(7F)

Frequently Asked Questions

- "Printing Settings" (A page 59)
"UV Ink" (A page 59)
- "Others" (A page 59)

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.
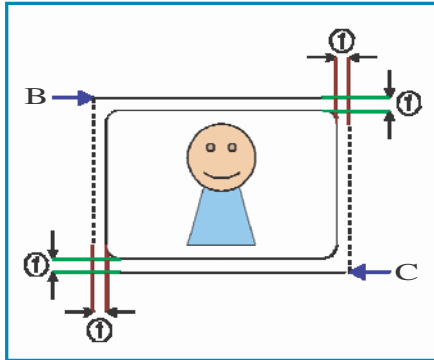
A About 1 mm
B (X=0, Y=0)
C (X = approx. 87.5 mm, Y = approx. 56.0 mm)

The card is discharged without being printed

- The [Print] checkbox in the [Print] tab may not be selected. Select the [Print] checkbox.
"[Print] Tab" (A page 26)

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" (A page 26)

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" (A page 27)

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" (A page 26)

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" (A page 26)
"[UV ink] Dialog Box" (A page 30)

Image at the top right corner is not printed

- In the case of printing using UV ink, the printer always prints 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" (A page 31)

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" (A page 32)

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" (A page 30)

Image using the UV ink is not printed

- The format of the image file is not supported.
"Windows Bitmap File Format" (A page 32)
- 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 K ink.

Others

How can I perform magnetic/IC encoding?

- Special applications 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.

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