

KODAK Photo ID Card Printer

ID100S



User Manual



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1. Introduction

1.1 Printer outside features

For the user's convenience, KODAK ID100S status can be seen, and the printer can be controlled by the LED button. The printer's power adapter is included and provides 24V's. Only use the provided power adapter to power the printer. Printer communication to a PC or Mac Computer via USB port.

The following shows the outside functional features found on the printer.



- ① Top cover open button
- ② Fan
- ③ Card slot
- ④ LED buttons

Figure 1 ID100S front features



- ⑤ Power switch
- ⑥ 24V power connector
- ⑦ USB port

Figure 2 ID100S rear features

1.2 Printer inside features

In the KODAK ID100S printer, the ribbon is installed using the re-loadable ribbon cartridge. The following shows the inside functional features found in your KODAK ID100S printer.



Figure 3 ID100S Inside features

① Card slot

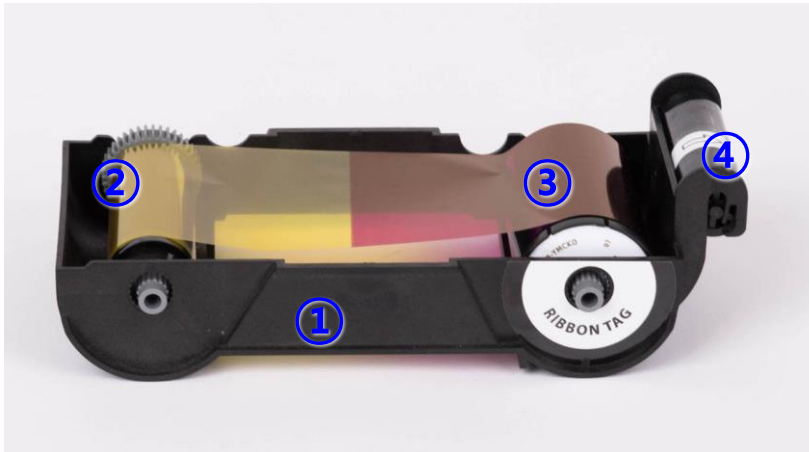
Manually feed the card and collect the printed card one at a time using the card slot.

② Thermal Print Head

This facilitates card printing.

(Caution! This is very hot after printing. Do not touch the surface of the Thermal Print Head with fingers or sharp metal objects. This will degrade print quality and permanent damage can occur.)

1.3 Ribbon cartridge features



- ① Ribbon cartridge
- ② Take up core
- ③ Supply core
- ④ Disposable cleaning roller

Figure 4 Ribbon cartridge features

1.4 Display and Buttons

The status of KODAK ID100S is displayed using the Watchman printer status application located in the Windows tray.

Initially, the status of KODAK ID100S is displayed by the color of the printer’s LED. It is red on boot up.

It will change to green and display ‘System Ready’ to print. The Watchman printer status application will show real-time printer status.

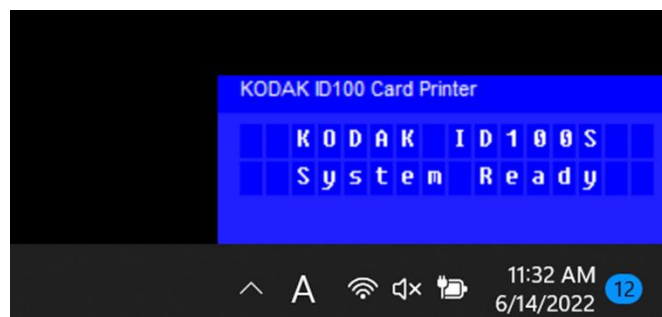


Figure 5 Watchman Pop-up

2. Printer installation

2.1. Connecting power and USB cables

Connect the power and USB cable as shown below (Figure 6).



Figure 6 KODAK ID100S Connection of power and USB cables

2.2. Fitting the ribbon

Before printing, prepare the related consumables such as cards and the ribbon cartridge.

(1) Turn off the printer

(2) Open the printer top cover by pressing the top cover open button.



Figure 7 Top Cover open

(3) The KODAK ID100S package contains a ribbon cartridge, cards, and a color ribbon with a cleaning roller.



Figure 8 KODAK ID100S package

(4) Peel the protective film from the cleaning roller.

The cleaning roller is adhesive based so it should be kept clean of fingerprints, dust, and foreign substances to avoid contamination once the protective film is removed.

(Caution! Do not install without peeling off the protective film)



Figure 9 Peeling the protective film

(5) Peel off the ribbon position tape from the ribbon cartridge.



Figure 10 Peeling the ribbon position tape

(6) Install the ribbon cartridge into the printer.



Figure 11 Installing the ribbon cartridge

(7) Close the top cover

(If it doesn't close properly, check the ribbon cartridge position inside the printer, as it may be installed incorrectly.)



Figure 12 Close Top Cover

2.3. Loading cards

This section shows how to feed the plastic cards.

- (1) Insert a card into the card slot.

The card will be automatically moved into the standby position and ready for printing.

Or, if you send a print job to the printer before inserting a card, the printer's LED Button will blink, and the printer will wait until a card is inserted. Cards from 15mil (0.4mm) to 31.5mil (0.8 mm) cards are supported.

(Caution! Do not touch the printable surface of the card as it will affect printing quality.)



Figure 13 Loading the card 1



Figure 14 Loading the card 2

- (2) To cancel and extract a card before printing simply pull out the card as shown (Figure 15)



Figure 15 Unloading the card

2.4. To extract a printed card.

Once printed, a finished card is ejected from the card slot.



Figure 16 ID100S Extract a printed card

2.5. Driver installation (Windows 7 / 8 / 10/ 11)

"The KODAK Photo ID Card Printers support Microsoft's Windows Plug & Play architecture."

If connected to a network, a Windows users can operate the printer without installing the printer driver. If the PC is not connected to a network or Windows Plug & Play is not running normally, we recommend downloading the KODAK driver and installing it manually before turning your printer on.

※ Plug & Play may not be supported in older versions of Windows."

(1) QR Code

This QR Code will direct you to the download page for the KODAK driver.

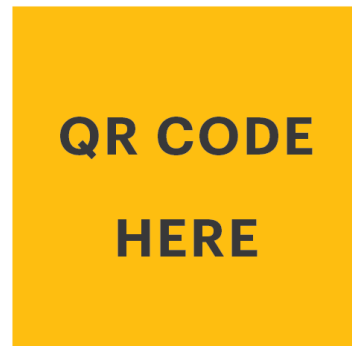


Figure 17 Install Windows driver 1

(2) Go to

[www.idprinter4u.com/download.](http://www.idprinter4u.com/download)

Download the "KODAK ID Printer Driver".

Extract the driver and all its components (Extract All) from the ZIP file and save it on your PC. Do not install the driver from within the ZIP program.

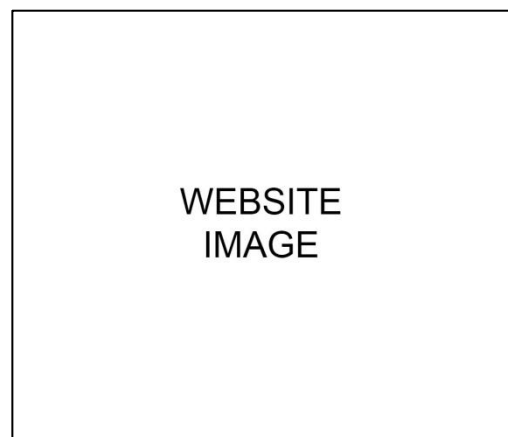


Figure 18 Install Windows driver 1

(3) Navigate to the extracted zipped files and double click on the “Driver-Install” file to begin the installation.

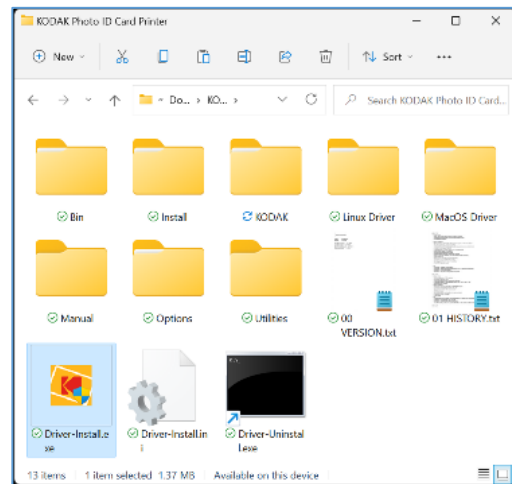


Figure 19 Install Windows driver 2

(4) When the “User Account Control” pop-up window opens, click “Yes”



Figure 20 Install Windows driver 3

(5) STEP 1:

Please turn off the printer if it is connected to a PC. Click “Next”. When you click “Next” any old drivers will be removed automatically.

This process may take several minutes.

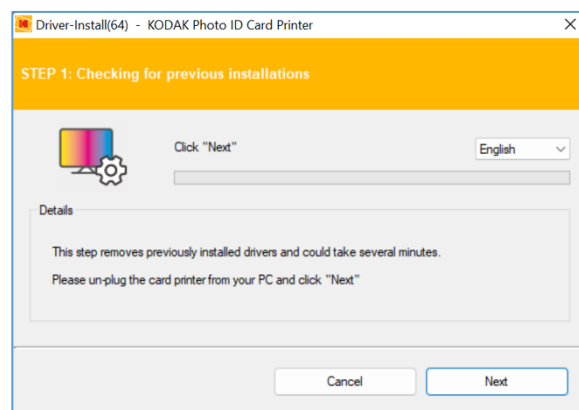


Figure 21 Install Windows driver 4

(6) STEP 2:

When you click “Next”, the driver will be ready to install.

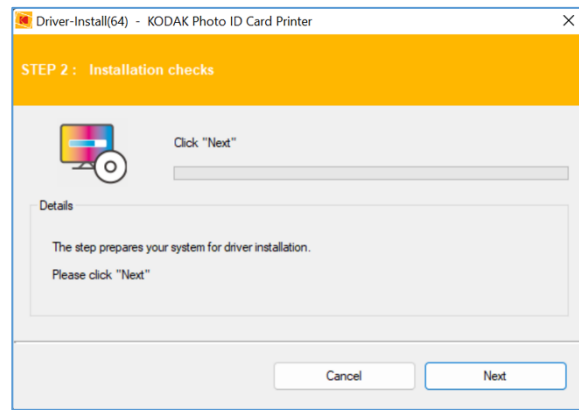


Figure 22 Install Windows driver 5

(7) STEP 3: USB

Check the USB port connection and click the “Next” button.

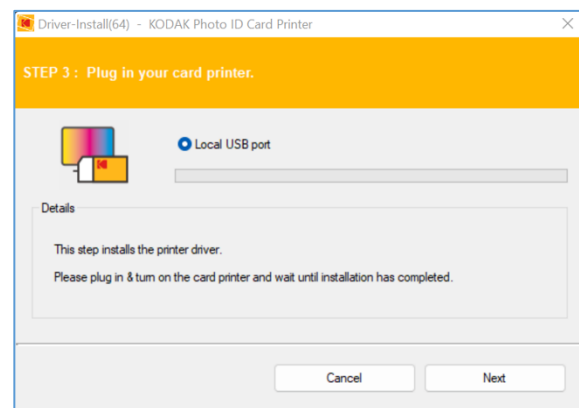


Figure 23 Install Windows driver 6

(8) Turn on the printer

(Caution! Connect the USB Cable to the computer before powering on the printer.)



Figure 24 Install Windows driver 7

(9) When the driver installation is completed, please click “Close”

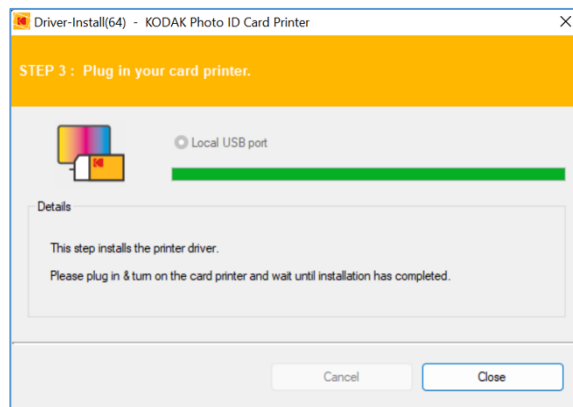


Figure 25 Install Windows driver 8

(10) Open “Printer & Scanners” from “Bluetooth & devices” (or “Devices”) on the Windows “Settings”. Check if “KODAK ID100 Card Printer” is created.

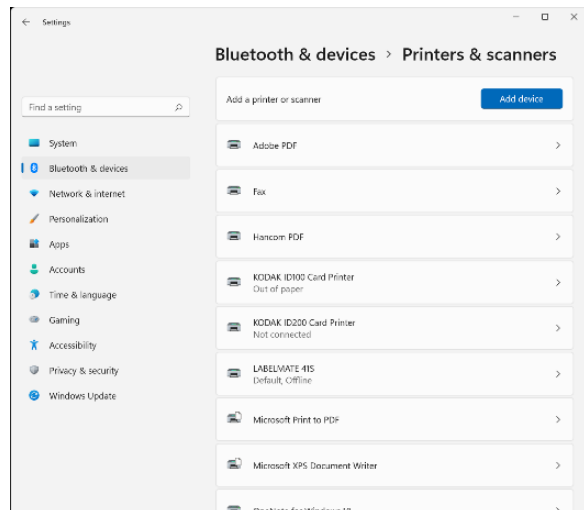


Figure 26 Install Windows driver 9

(11) Click “KODAK ID100 Card Printer” and select “Printer Properties” (or “Manage” and Click “Printer Properties”).

※ For Windows 7/ 8, access Windows Control Panel and select Device and Printers. Right click “KODAK ID100 Card Printer” and select “Print Properties”.

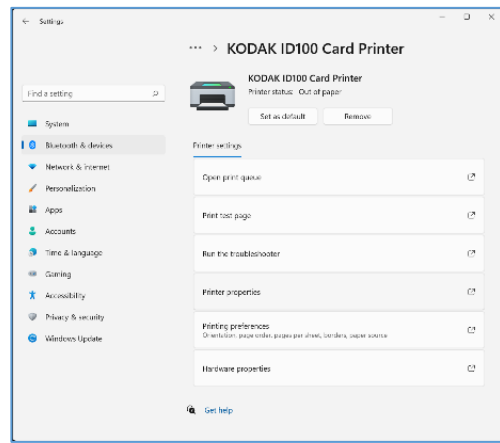


Figure 27 Install Windows driver 11

(12) Select the “General” tab and click “Print test page” in “KODAK ID100 Card Printer Properties” window.

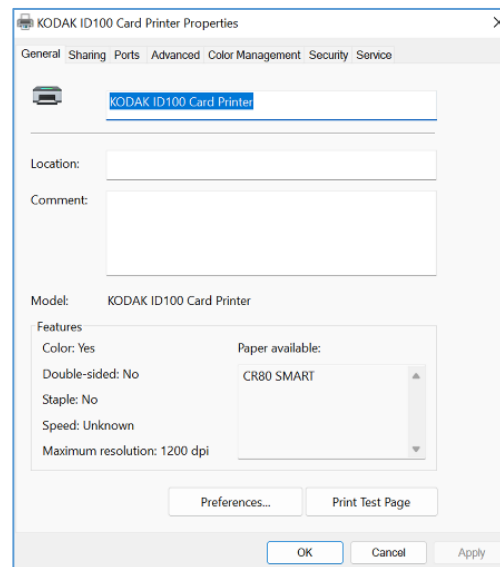


Figure 28 Install Windows driver 12

(13) Check the test card to see if it has been printed properly. If so, click “Close”.

(If a card does not print or there are printer errors, please refer to “Trouble Shooting”.)



Figure 29 Install Windows driver 13

3. Driver configuration

3.1. Printer Properties

To check printer properties, you need to open the printer driver. Please access Windows "Settings" and select "Printers & scanners" from "Bluetooth & devices" (or "Devices"). Click "KODAK ID100 Card Printer" and select "Printer Properties" (or "Manage" and Click "Printer Properties").

- ※ For Windows 7/ 8, access Windows Control Panel and select Device and Printers. Right click "KODAK ID100 Card Printer" and select "Print Properties".

(1) Printing Preferences

Click "Preferences" shown on the bottom left of the General tab.

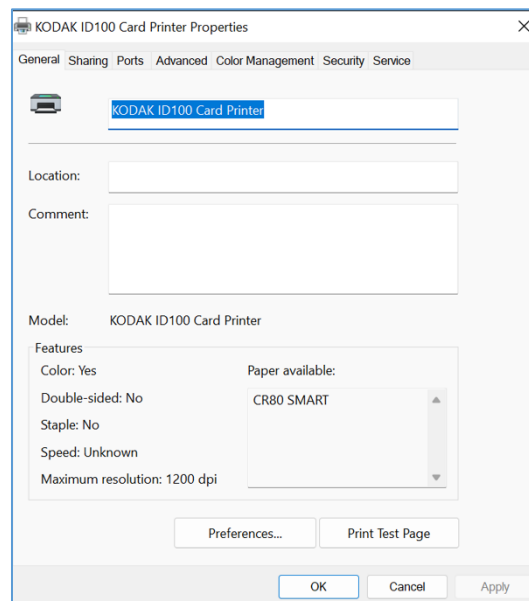


Figure 30 Printer properties

(2) Layout

You can select either horizontal (landscape) or vertical (portrait) printing direction. To apply your selection, click “OK”.

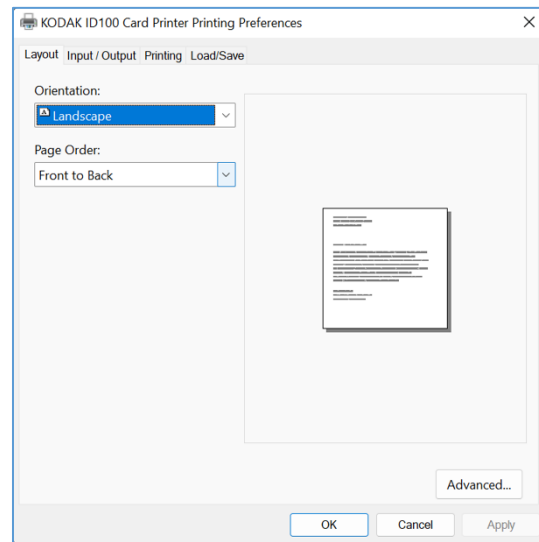


Figure 31 Layout

(3) Input / Output

[Supply Tray]

Supply : You can select “Auto” if KODAK ID100S has one input hopper. Select the hopper if it has a multi hopper.

Tray : You can select “CR-80” because KODAK ID100S supports CR80 cards only.

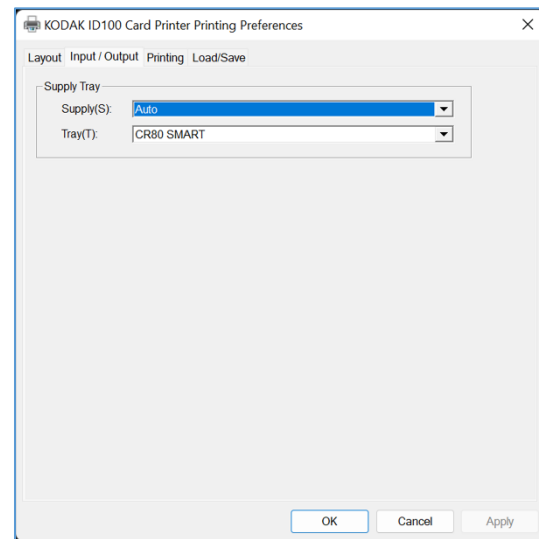


Figure 32 Input / Output

(4) Printing

Do Printing : Select for printing

[Print Side]

Side : THIS FEATURE IS NOT SUPPORTED IN KODAK ID100S AS THIS PRINTER IS A SINGLE SIDED PRINTER ONLY

[Front]

Color : You can select color or mono print.

Flip : THIS FEATURE IS NOT SUPPORTED

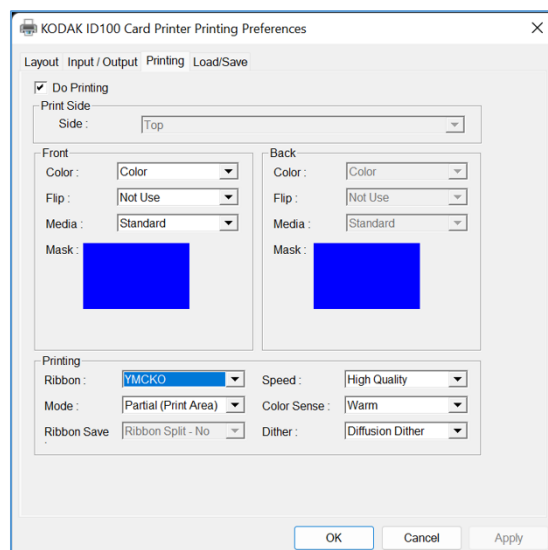


Figure 33 Printing

IN KODAK ID100S AS THIS PRINTER IS A SINGLE SIDED PRINTER ONLY

Media / Mask : You can indicate the area to be printed by using a predefined mask or user defined mask on front side.

[Printing]

Ribbon : It shows the type of installed ribbon. You do not need to select this option as KODAK ID100S recognizes ribbon automatically.

Speed : Set printing speed and quality

Mode : Set printing mode

Standard : Default print mode. Prints the entire printable area.

Partial : Partial print mode. This unique monochrome feature increases speed and the number of total cards printed per roll of ink. It optimizes the printer to only use the amount of ink necessary to print data on the card.

Color Sense : Set the color tone of the print image

Dither : There are three selections, Threshold, Random, and Diffusion Dither.

Ribbon Save : THIS FEATURE IS NOT SUPPORTED IN KODAK ID100S.

You can define a mask.

User defined mask uses BITMAP file (1012 X 636 pixels).

Blue (RGB(0,0,255)): Print and Overlay

Sky Blue (RGB(0,255,255)): Overlay only

Pink (RGB(255,0,255)): Print only

Yellow (RGB(255,255,0)): Florescent

3.2. Advanced Options

To change the detailed configuration, in the 'Layout' tab shown, please click "Advanced..." shown at the bottom of the 'Layout' tab in the 'Preferences'.

- **Reset Default Values:** Resets to factory defaults.

- **Color Correction:** Set the value and optimize gamma for colors. You need to use CardPrinterConfig to adjust the color density.
 - **Main [-100:100]:** Adjust the gamma values for all panels
 - **Yellow [-100:100]:** Adjust the gamma value for the yellow panel
 - **Magenta [-100:100]:** Adjust the gamma value for the magenta panel
 - **Cyan [-100:100]:** Adjust the gamma value for the cyan panel
 - **Black [-100:100]:** Adjust the gamma value for the black panel
 - **Overlay [-100:100]:** Adjust the gamma value for the overlay panel

- **Position Processing:** Adjust the value for resin black processing.
 - **Color [-32:32]:** Adjust the position of the color panels
 - **Mono [-32:32]:** Adjust the position of the resin or mono panel
 - **Overlay [-32:32]:** Adjust the position of the overlay panel

- **Resin Black(K) Processing:** Adjust the value for resin black processing.
 - **Text [0:100]:** Adjust the density value for extracting black objects
 - **Dot [0:100]:** Adjust the density value for extracting black dots
 - **Threshold [0:100]:** Adjust the density value on dithering

- **Dithering Degree [0:100]:** Adjust the degree of sharpness on dithering
- **Resin Extraction:** You can optimize the method of black resin monochrome printing when using third-party badging applications. If you are using KODAK ID Studio, the program will manage this for you.
 - **Black Object:** to extract resin black automatically for text, line, box, circle, binary images, etc.
 - **Black Text:** to extract resin black for text only
 - **Black Dots:** to extract resin black for all black
 - **Black Dots only:** to extract resin black for all black and not to print on color panels
 - **Not Use:** Do not extract resin black
- **Extra Controls : Other options**
 - **Fast Alignment [On/Off]:** Set the position of card input to magnetic encoder or normal printing. Turn this on to increase encoding speed.
- **Wait Option:**
 - **This option will hold the card over the internal contactless encoder inside the printer [On/Off]:**
 - **Card Side [Front/Back]:** Set the direction of the card when waiting
 - **Wait Position [-100:100]:** Set the position of the card in correlation to encoder. Units are 0.1mm
 - **Wait Time [0:1000]:** Set the time to wait. Units are seconds
 - **This option will hold the card near the external contactless module inside the printer [On/Off]:**
 - **Card Side [Front]:** to set the direction of card when waiting

- **Wait Position [-100:100]:** Set the position of the card in correlation to the encoder. Units are 0.1mm
- **Wait Time [0:1000]:** to set time to wait. Units are seconds
- **Card Side [Front]:** to set the direction of card when waiting
- **Wait Position [-100:100]:** to set the position of card to wait from the criteria position. Units are 0.1mm
- **Wait Time [0:1000]:** Set the time to wait. Units are seconds

3.3. Other settings

(1) Sharing

You can share a printer using the Sharing tab via Network.

Default is unchecked to “Share this printer”.

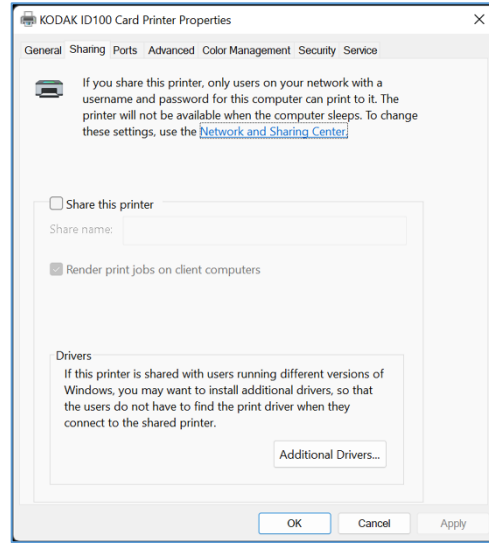


Figure 34 Printer sharing

(2) Ports

The port tab shows which port is connected to the KODAK ID100 Card Printer. KODAK ID100 Card Printer is connected to the USB Virtual printer port as shown in Figure 35. The KODAK ID100 Card Printer uses a USB connection to the PC.

(Caution! This port is selected automatically. It is recommended to keep default.)

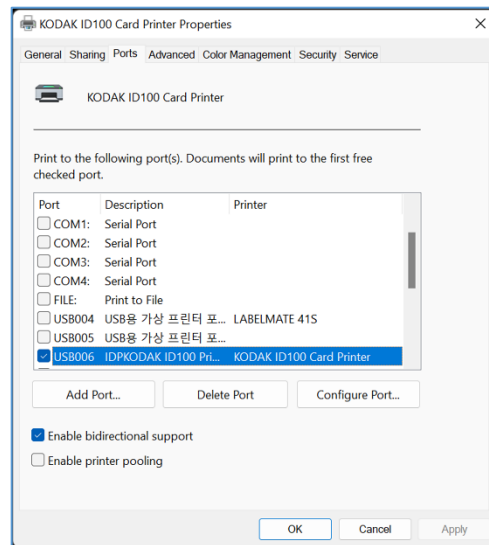


Figure 35 Ports

(3) Advanced

Advanced settings are an option in the Working Time setting, Priority order, Spool print etc. In the “Advanced” tab. “Advanced” setting follows MS Windows standards. If you want to change the settings, please refer to the Windows manual.

(It is recommended to keep default.)

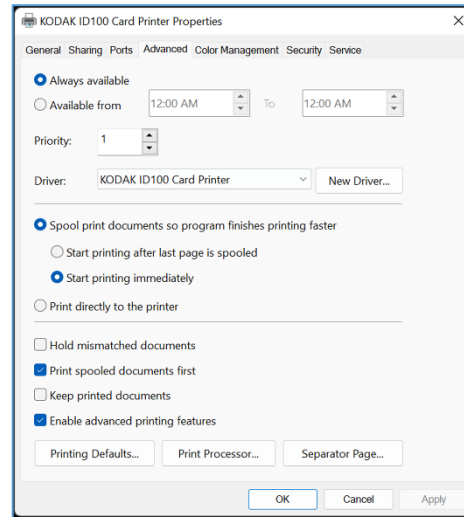


Figure 36 Advanced

(4) Color Management

In the “Color management” tab, you can select color management profile to fit the printer.

KODAK ID100 Card Printer uses color profile to express optimal color. The driver selects the color profile automatically to fit each ribbon.

(Default is recommended.)

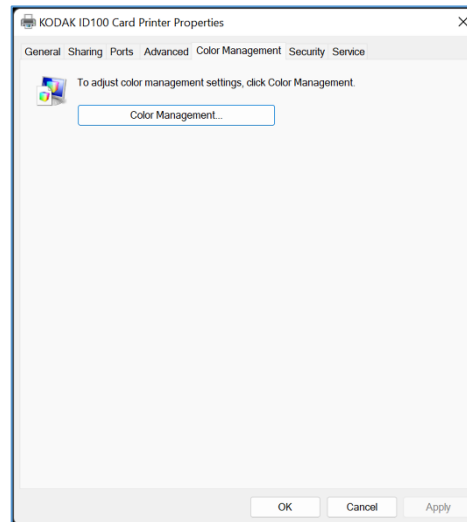


Figure 37 Color Management

(5) Security

You can set the permissions for the printer. Depending on the permission, certain groups or users can print and manage the printer/documents or not.

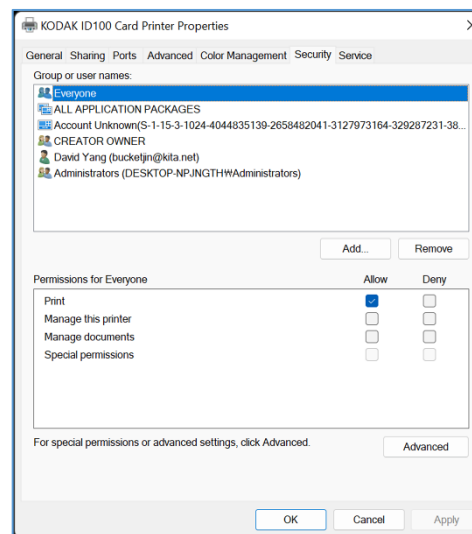


Figure 38 Security

(6) Service

You can see the modules connected, printer serial number, printer ID, driver version, firmware version, type of ribbon, and the balance and printer's status.

You can print the "technical support sheet" on a card to check printer's setup value.

To clean the printer, insert a cleaning card in the hopper and click "Clean Printer". For further details, please refer to "5.2. Cleaning the Printer".

Please click "Config Printer" to change the printer settings. For further details, please refer to "4.1. Card Printer Config".

Click the "Upgrade Firmware" in the firmware upgrade window. For further details, please refer to "4.2. Firmware update"

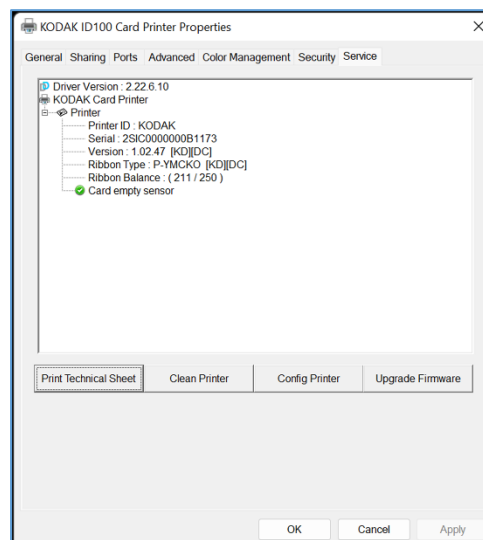


Figure 39 Service

4. Utilities

4.1. Card Printer Config

To change the KODAK ID200S Card printer settings in the Card Printer Config tool. Go to Windows "Settings" and select "Printers & scanners" from "Bluetooth & devices" (or "Devices"). Click "KODAK ID100 Card Printer" and select "Printer Properties" (or "Manage" and Click "Printer Properties") – "Service".

- ※ For Windows 7/ 8, access Windows Control Panel and select Device and Printers. Right click "KODAK ID100 Card Printer" and select "Print Properties".

Please refer to as section 3.3 "(6) Service".

(1) Run CardPrinterConfig

Password input window is displayed when you run this program. If you input the correct password, the recorded setup values will be shown where you can change the value. The password is saved on that specific KODAK ID100S printer. If you use another PC with the same printer, the previous password is required to run this program. **(There is no default password, simply click "OK")**

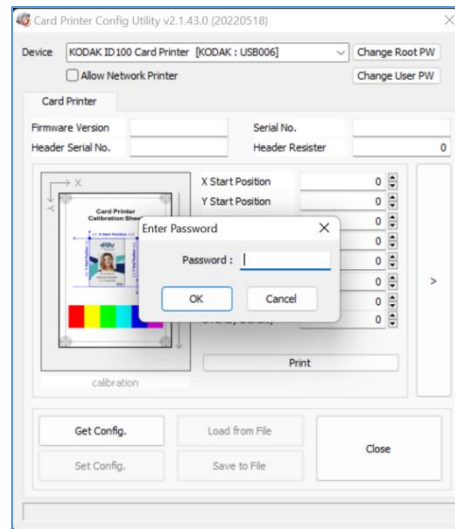


Figure 40 CardPrinterConfig Log-in

Once logged in, you can set the values as shown in Figure 40.

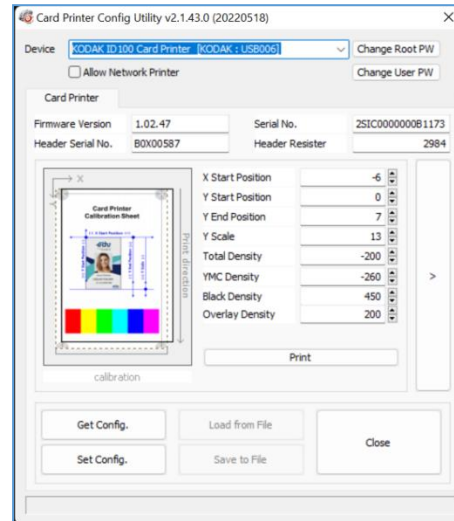


Figure 41 CardPrinterConfig start

(2) Card Printer Basic Setup

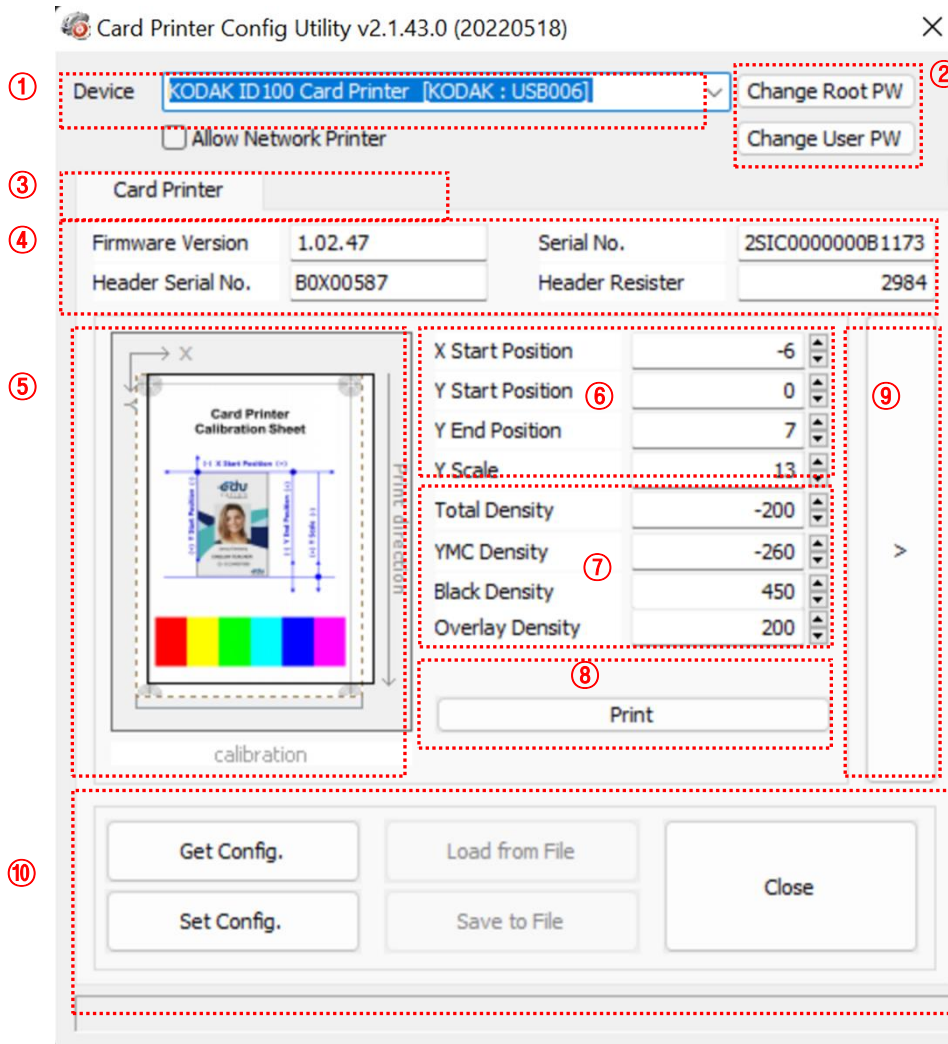


Figure 42 CardPrinterConfig – Card Printer Basic Setup

- ① To show connected printers

Device: You can select a printer using the drop-down menu. “KODAK ID 100 Card Printer” is the selected printer. “KODAK” is the printer ID, and “USB006” is the connected port. If you connect to a Network printer, please check the “Allow Network Printer” and select in the drop-down menu.

- ② To set the administrator password and user password.

Change Root PW: Setting the administrator (root) password. This password is used to verify user authority for CardPrinterConfig and User Authentication. This is required for User password management. **(Please set a password for security.)**

Change User PW: Set a user password for User Authentication.

- ③ Click “Card Printer” tab.
- ④ To show printer firmware version, printer serial number, head serial number, head resister level, and print head type.
- ⑤ Setting the print area. It is overemphasized for user convenience.
- ⑥ To set print area. Set it properly to print on an entire card, KODAK ID100S is a direct thermal card printer. When you click “⑦ Print”, a card is printed as like “④ example”. Please set values properly so that all circles of each corner are printed, and blank spaces are 0.4mm ~ 0.5mm in the top and the bottom of a card. Please set values in the following order:

X Start Position: Set the right and left position by adjusting the X position.

Y Start Position: Set the start position of the printed example image and the blank space in the top at 0.4mm ~ 0.5mm.

Y End Position: Set the end position of the printed example image and the blank space in the bottom at 0.4mm ~ 0.5mm. It is recommended to set a bigger value for “Y scale” than default.

Y Scale: Please set to show circles in the bottom.

To set color density. KODAK ID100S allows you to set different density for each color, resin black and overlay. The printer density is optimized in the factory, but if these settings are not to your liking, you may adjust them. To optimize the printer’s output, we recommend making small changes at a time and then printer a Calibration card and repeat until you achieve your desired output.

- ⑦ To set density

Total Density: Changes all the density values (Color, Black and Overlay) at one time.

YMC Density: Changes color density. Maximizing the YMC density will offer the most vivid printed images, but if the color density is set too high, it is possible for green or red defect marks to appear on the finished card. If the density is too low, the printed images will look dull or washed-out.

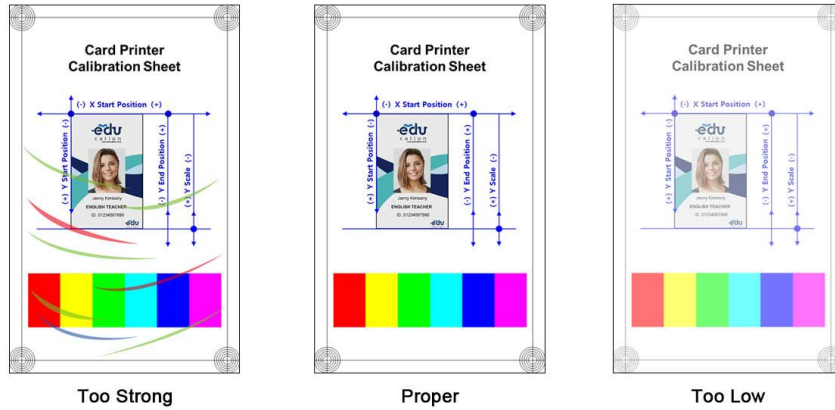


Figure 43 Color density

Black Density: Setting the resin black (or other monochrome ribbon) density. The picture shows examples of how density affects the printing of a barcode.

When density is too strong, the barcode is printed too thick. When density is too weak, the barcode is too thin. Please adjust resin black density to show a clear barcode. Please refer to the following pictures.

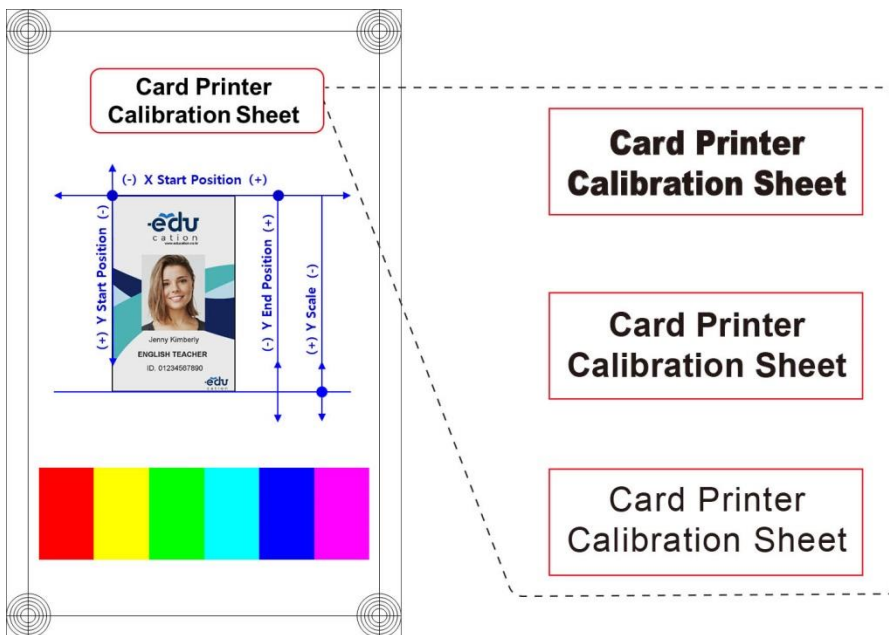


Figure 44 Resin Black density

Overlay Density: Setting the overlay density. Please optimize the overlay printing. If it is too strong, the card may look hazy, and defects can appear. If it is too weak, the overlay panel may not fully cover the card surface. You can see this by looking at a printed card under a light.

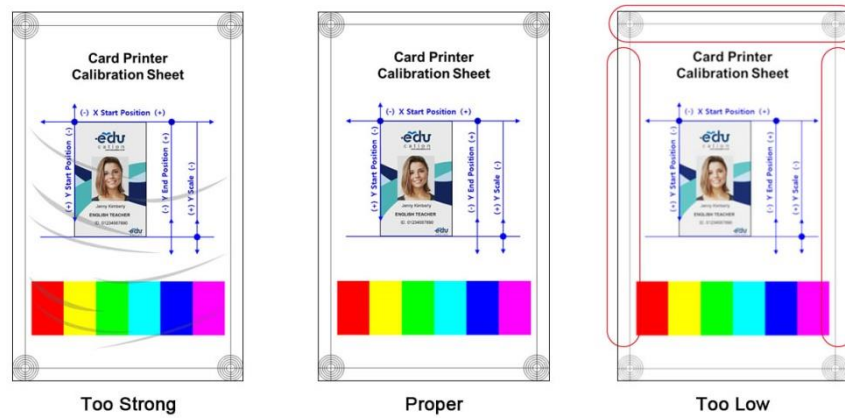


Figure 45 Overlay density

- ⑧ To print a calibration card
- ⑨ To show advanced Setup.

(Recommend for ONLY trained technicians)

- ⑩ To load or save values.

Get Config.: Get the values from the current printer

Set Config.: Set values to the current printer

Load from File: Load values from a file

Save to File: Save values to a file

Close: Close the CardPrinterConfig window

(3) Card Printer Advanced Setup

Setting additional values:

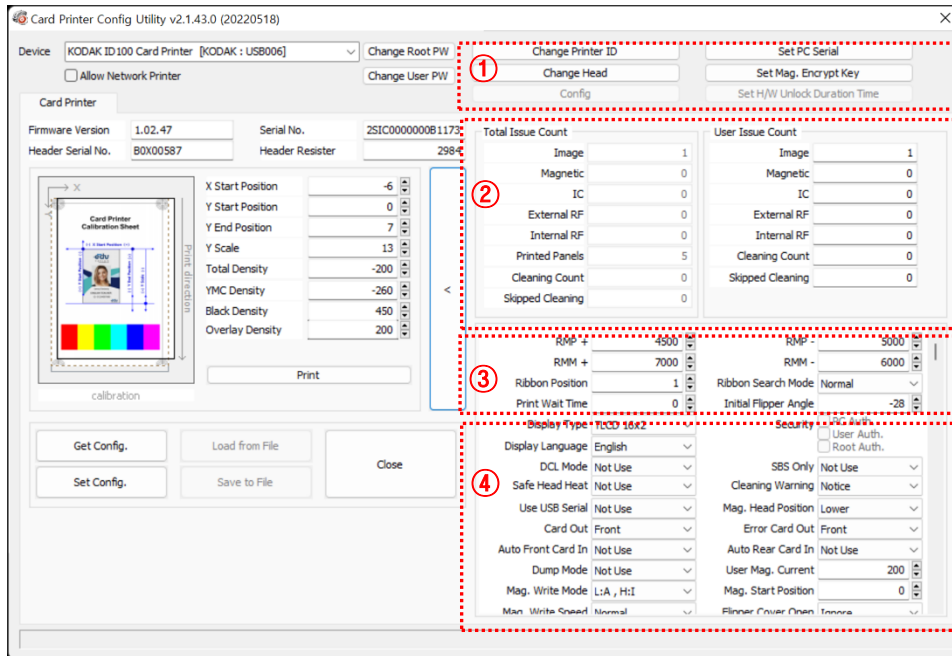


Figure 46 CardPrinterConfig – Card Printer Advanced Setup

- ① Setting the Printer ID, PC serial, Print head.

Change Printer ID: When KODAK ID100S is used with SDK, you can set a unique ID for KODAK ID100S printer regardless of whether it is connected by USB or what the IP address is. It is useful to connect and use several printers. The default is “KODAK”.

Set PC Serial: One of the security functions. You can use a printer with a specific PC. It is activated when you click “Set PC Serial” after “PC Auth.” of ④ is checked and rebooted. At that time, the specific information of the used PC is saved to the ID100S printer.

Change Head: When you replace thermal print head, you must change the head information for optimal quality. Please change the head serial number, resister, and type of head in the Change Head Dialog window after clicking “Change Head”.

- ② Shows how many cards are issued with KODAK ID100S printer. "Total Issue Count" is the number of issued cards from the factory shipment; "User Issue Count" is the number of issued cards from replacing the head. When you replace a head, please initialize the number by ticking "Reset User Issue Count".
- ③ Shows ribbon motor management. KODAK ID100S recognizes ribbon color automatically and controls the motor by the remaining ribbon. "RMP+", "RMP-", "RMM+", "RMM-" are necessary variables to control the ribbon motor. Please do not change the values for them as it affects card quality.

RMP+: Set the ribbon motor's max torque value while printing when the balance is max.

RMP-: Set the ribbon motor's min torque value while printing when the balance is min.

RMM+: Set the ribbon motor's max torque value while moving when the balance is max.

RMM-: Set the ribbon motor's min torque value while moving when the balance is min.

Ribbon Position: Set the ribbon arrangement position

Ribbon Search Mode: Set the ribbon Search method

Print Wait Time: Set the time from lifting down the print head to starting print

Initial Flipper Angle: THIS FEATURE IS NOT SUPPORTED IN ID100S.

- ④ Please refer below for other values.

Display Type: THIS FEATURE IS NOT SUPPORTED IN ID100S.

UART Baud Rate: Set the communication speed of the Internal Serial port. It is used for the KIOSK model.

Security: There are several ways to set a security function for ID100S.

PC Auth.: You can use a printer with a specific PC. It is activated when you click "Set PC Serial".

User/Root Auth.: You can set passwords for User and Administrator.

DCL Mode: When you use SDK and print cards with DCL mode, you do not need to install the printer device driver.

SBS Only: Please enable it when you issue cards with software programmed by SDK. This option disables the printer device driver.

Safe Head Heat: Set not to print if the print head is overheating.

Cleaning Warning: Shows the 'Do cleaning' message periodically

Use USB Serial: When ID100S is connected to USB, it transmits the USB serial number to the PC. Default is the same number used by all ID100S. Please set this option when you use multiple ID100S printers connected to 1 PC via USB. It enables unique serial numbers for each USB.

Mag. Head Position: THIS FEATURE IS NOT SUPPORTED IN ID100S.

Card Out: THIS FEATURE IS NOT SUPPORTED IN ID100S.

Error Card Out: THIS FEATURE IS NOT SUPPORTED IN ID100S.

Auto Front Card In: THIS FEATURE IS NOT SUPPORTED IN ID100S.

Auto Rear Card In: THIS FEATURE IS NOT SUPPORTED IN ID100S.

Dump Mode: It records log data to inspect the operation of the printer.

User Mag. Current: THIS FEATURE IS NOT SUPPORTED IN ID100S.

Mag. Write Mode: THIS FEATURE IS NOT SUPPORTED IN ID100S.

Magnetic Start Position: THIS FEATURE IS NOT SUPPORTED IN ID100S.

Magnetic Write Speed: THIS FEATURE IS NOT SUPPORTED IN ID100S.

Flipper Cover Open: THIS FEATURE IS NOT SUPPORTED IN ID100S.

Card In Speed: Set the card input speed.

Card Move Speed: Set the card's movement speed.

Card Eject Speed: Set the card ejection speed.

Card In Delay: Set the delay time after the card feed.

Stability Interval: Set the interval for printer operation stability.

Hopper Align: THIS FEATURE IS NOT SUPPORTED IN ID100S.

Hopper Align Time: THIS FEATURE IS NOT SUPPORTED IN ID100S.

Stability Mode: Set the control method for printer operation stability. When set to "Safe", it slows down the speed however increases stability over "default".

Color Sensor Calib: Set whether to use color panel recognition as the calibration value of the sensor.

“Disable” is set to the default value.

“Enable” is set to the Open Color Sensor Calibration value.

Open Color Sensor Calibration: Measure the value of the color sensor.

Cancel Only: This function is not used in this model.

Display Card Empty: This function is not used in this model.

Color Registration: To align the Y, M, and C panels for the best print results.

Front Device: This function is not used in this model.

4.4. Firmware update

Periodically, new firmware will be released and we recommend that you update your printer using the CardPrinterFirmware tool that comes with your printer’s driver package.

(1) CardPrinterFirmware Menu

Device: Select the local printer that you want to upgrade.

Card Printer: Select the device you want to upgrade.

Device Version: Displays the current firmware version of the selected printer.

Binary File: Click “Browse” button and select the new firmware file to update.

Manual Update: It is used when you want to update manually.

Update: Updates automatically. Generally, we recommend updating automatically.

Close: Exit.

Color Sensor Calibration: To re-adjust the measured value of the color sensor.

Message: It displays updated information.

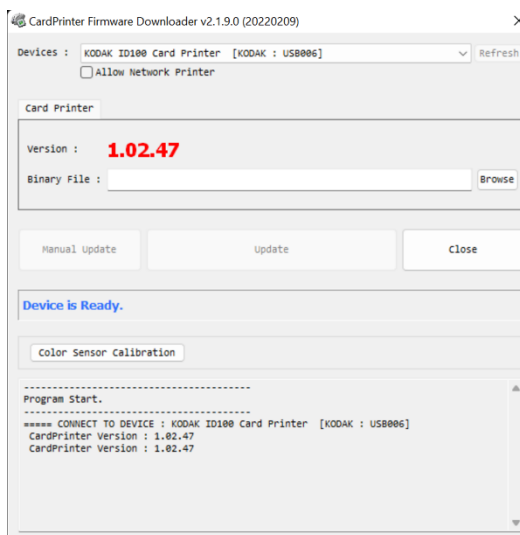


Figure 47 Run CardPrinterFirmware

(2) Ready for Firmware Update

- Select the printer to update the firmware on the 'Device' list.
- Select the device to update the firmware Printer tab.
- Click "Browse" and select the new firmware

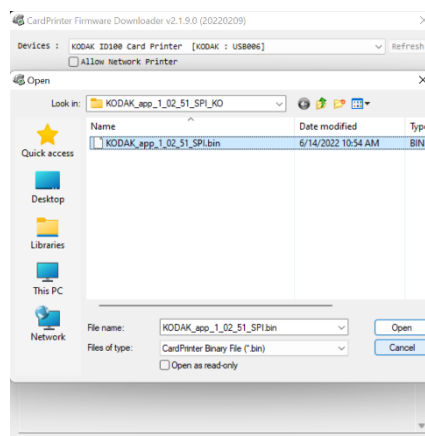


Figure 48 Select Firmware

(3) Firmware Update

- Click "Update" button to upgrade automatically, then the printer is upgraded after rebooting.
- If there are some problems with the automatic upgrade, you can click "Manual Update" and can see the pop-up window as pictured below. It shows the manual upgrade process. You can upgrade manually according to this procedure.

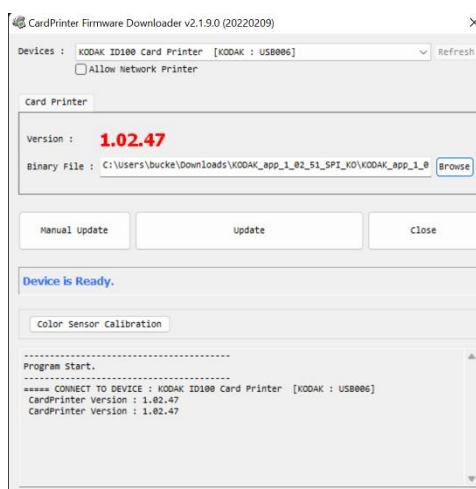


Figure 49 Update Firmware

(Caution: Please do not close the upgrade dialog box until it is completed successfully and do not turn off the printer.)

5. Troubleshooting

5.1. Error Message

If the KODAK ID100S printer is in an error state, the error message will display on the Watchman program of the Windows tray.

Below is a table of possible error messages, their descriptions, and possible countermeasures:

No	Watchman Message	Description and Countermeasures
1	Card In Error	<p>Fails to move a card from the card slot to the printer inside.</p> <ul style="list-style-type: none"> - Clean the cleaning roller
2	CardMove Int Err	<p>Fails to move a card in the printer.</p> <ul style="list-style-type: none"> - Remove a card if the ribbon is attached - Check the rollers and cards, and clean them if they are polluted - Check the operating state of the card feeding rollers and sensors
3	CardMove Ext Err	<p>Fails to move a card between printer and other module</p> <ul style="list-style-type: none"> - Check the rollers and cards, and clean them if they are polluted - Check the operating state of the card feeding rollers and sensors
4	Card Out Error	<p>Fails to eject a card after printing, encoding.</p> <ul style="list-style-type: none"> - Remove a card if the ribbon is attached - Check the rollers and cards, and clean them if they are polluted - Check the operating state of the card feeding rollers and sensors
5	TPH UpDown Error	<p>The Head Up/Down Motor or Sensor do not work correctly in printing or booting up</p> <ul style="list-style-type: none"> - Check the operating state of the Head Up/Down Motor and Sensor.

		- . Check the status of the mirror sticker in the Head Up/Down Gear.
6	IC UpDown Error	THIS FEATURE IS NOT SUPPORTED IN KODAK ID100S.
7	Ribbon Seek Err	The printer cannot search the ribbon panel in printing or booting up -. Check the operating state of the Ribbon Motor -. Check the operating state of the ribbon encoder sensor and gears -. Check and clean the Color In/Out Sensor -. Check the operating state of the color in/out Sensor
8	Ribbon Move Err	The printer cannot wind the ribbon in printing or booting up. -. Check the operating state of the Ribbon Motor -. Check the operating state of the ribbon encoder sensor and gears
9	MAG R/W Error	THIS FEATURE IS NOT SUPPORTED IN KODAK ID100S.
10	MAG T1 Error	THIS FEATURE IS NOT SUPPORTED IN KODAK ID100S.
11	MAG T2 Error	THIS FEATURE IS NOT SUPPORTED IN KODAK ID100S.
12	MAG T3 Error	THIS FEATURE IS NOT SUPPORTED IN KODAK ID100S.
13	Printing Error	Error occurs while printing -. Check if a card is jammed -. Check usage of a genuine ribbon and cards -. Check the rollers, encoders and cards, and clean them if they are polluted
14	Init Error	Error occurs while initializing -. Check the status of installation of ribbon.
15	DeviceCon Error	THIS FEATURE IS NOT SUPPORTED IN ID100S.
16	Lami Error	THIS FEATURE IS NOT SUPPORTED IN ID100S.
17	Flipper Error	THIS FEATURE IS NOT SUPPORTED IN KODAK ID100S.
18	Ribbon Zero	The ribbon has been used and needs to be replaced -. Replace a new ribbon
19	RibbonNotFound	Ribbon is not installed or not recognized

		<ul style="list-style-type: none"> - . Install a ribbon if not - . Check the usage of the ribbon
20	TPH Not Found	<p>Thermal Print Head is not installed or not recognized</p> <ul style="list-style-type: none"> - . Check the print head installation - . Contact the place of purchase
21	TPH Over Heat	<p>Thermal Print Head is overheated</p> <ul style="list-style-type: none"> - . Lower the temperature when the temperature is too high - . Stop for 10 minutes and print again. - . Contact the place of purchase if this message is shown regularly
22	Invalid Data	<p>Error occurs when the abnormal printing data is transmitted</p> <ul style="list-style-type: none"> - . Replace the USB cable USB - . Change the USB port in the PC - . Reinstall the printer driver
23	Wrong Password	<p>The password is not correct</p> <ul style="list-style-type: none"> - . Input the correct password - . Contact the place of purchase if you forgot the password
24	SetCommandFail	<p>Failed to execute a command of the printer</p> <ul style="list-style-type: none"> - . Replace the USB cable USB - . Change the USB port in the PC - . Turn off/on the printer
25	Spool Full	<p>The printing data is full in the spool</p> <ul style="list-style-type: none"> - . This message disappears after printing all data to send - . Turn off/on the printer if the spool data is full without printing

5.2. Cleaning the printer

To maintain the best condition of the KODAK ID200S printer, you must clean the printer periodically. We recommend using the exclusive long cleaning card, pictured below. This card is built to operate with the printer’s automated cleaning process. Contact your authorized KODAK Dealers for purchasing details.



Figure 50 Exclusive long cleaning card for KODAK ID100S printer

To use the automated cleaning process, click “Clean Printer” in the Service tab of KODAK ID200S printer driver.

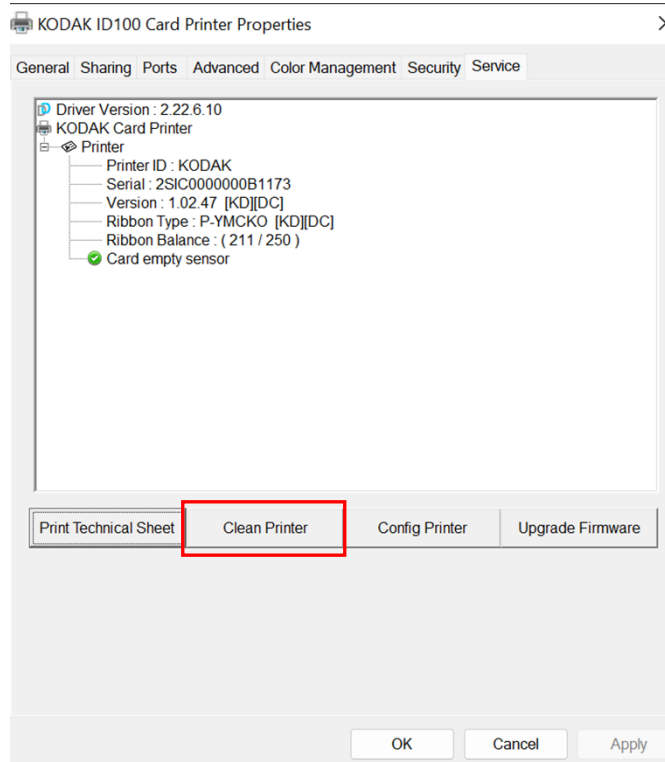


Figure 51 Printer cleaning start

Step 1. Be sure your KODAK ID200S printer is turned on and connected to your PC and open the exclusive long cleaning card.

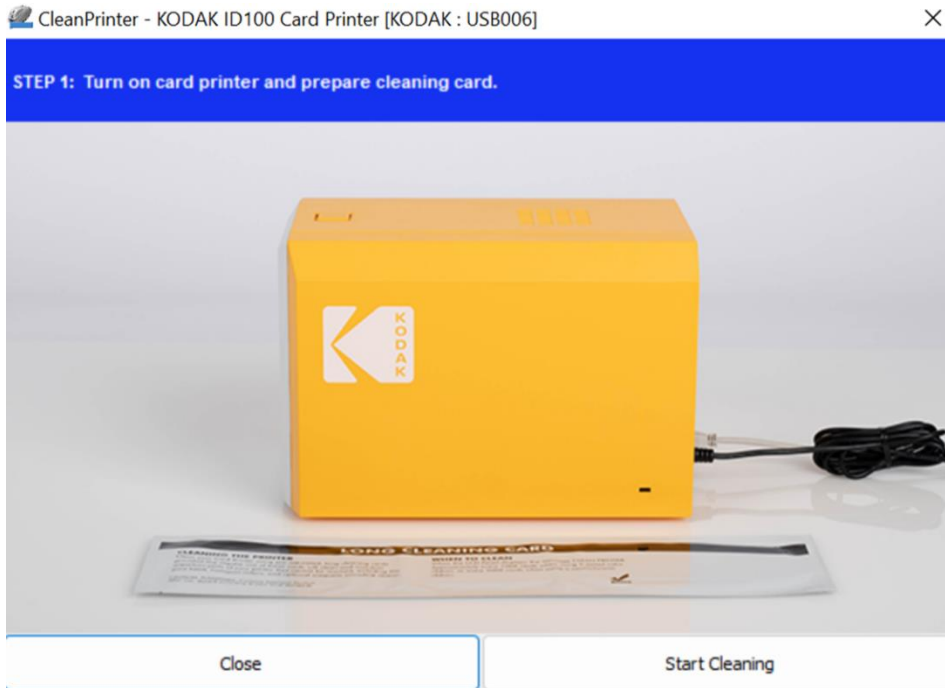


Figure 52 Printer cleaning Step 1

Step 2. Open the top cover, then remove the ribbon cartridge.

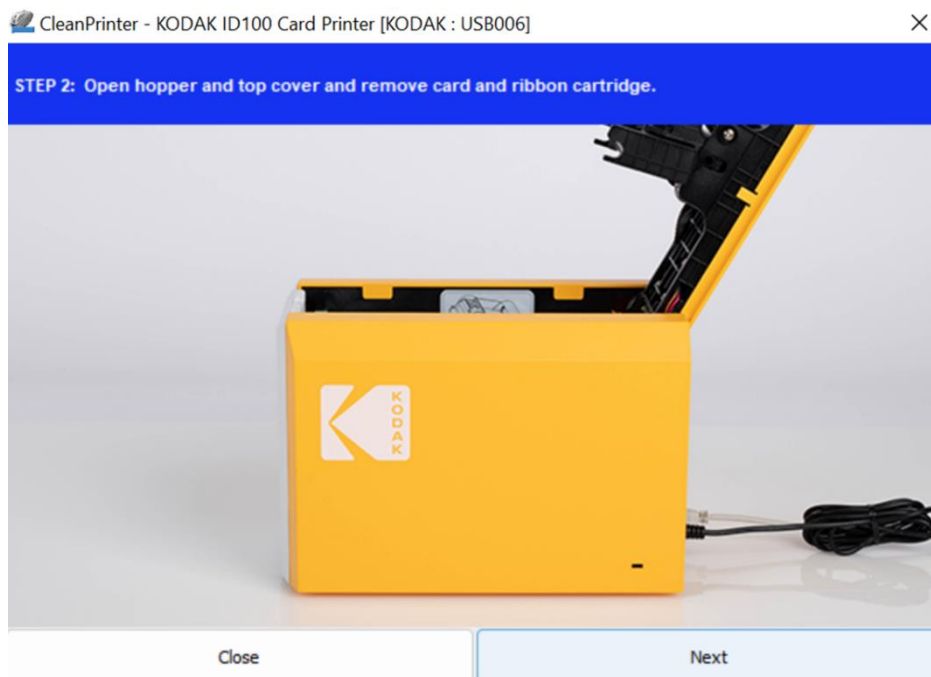


Figure 53 Printer cleaning Step 2

Step 3. . Insert the exclusive long cleaning card into the printer through the input hopper. When the exclusive long cleaning card is inserted, the printer will drive it automatically.

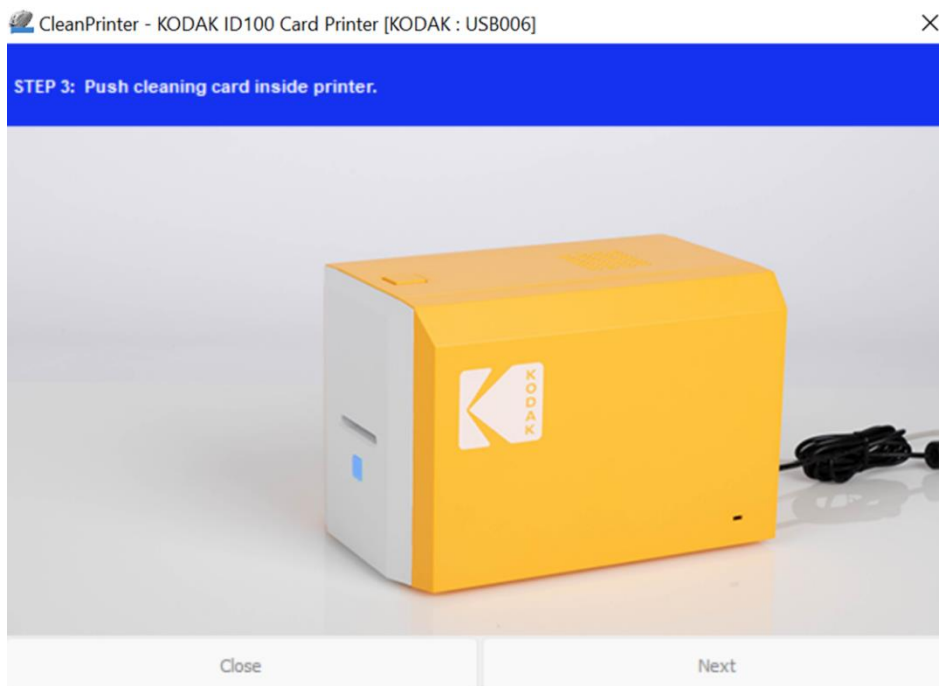


Figure 54 Printer cleaning Step 3

Step 4. Close the top cover to clean the Thermal Print Head and the printing roller. When the top cover is closed, the printer will move the cleaning card back and forth to thoroughly clean the printer rollers, print path and Thermal Print Head

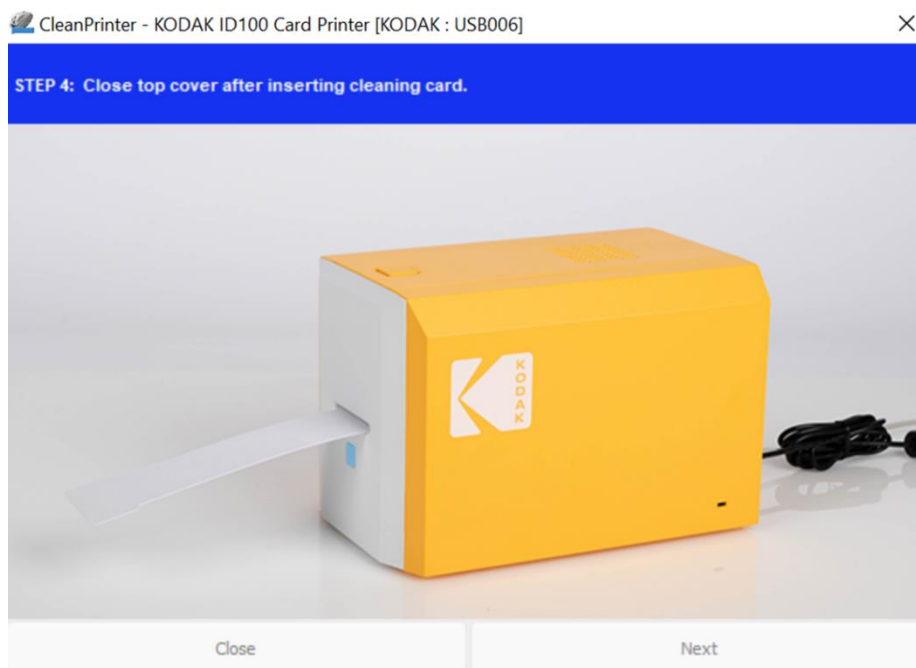


Figure 55 Printer cleaning Step 4

Step 5. The cleaning process takes a few minutes, and is normal to be a bit noisy. Once completed, the exclusive long cleaning card will be ejected automatically.

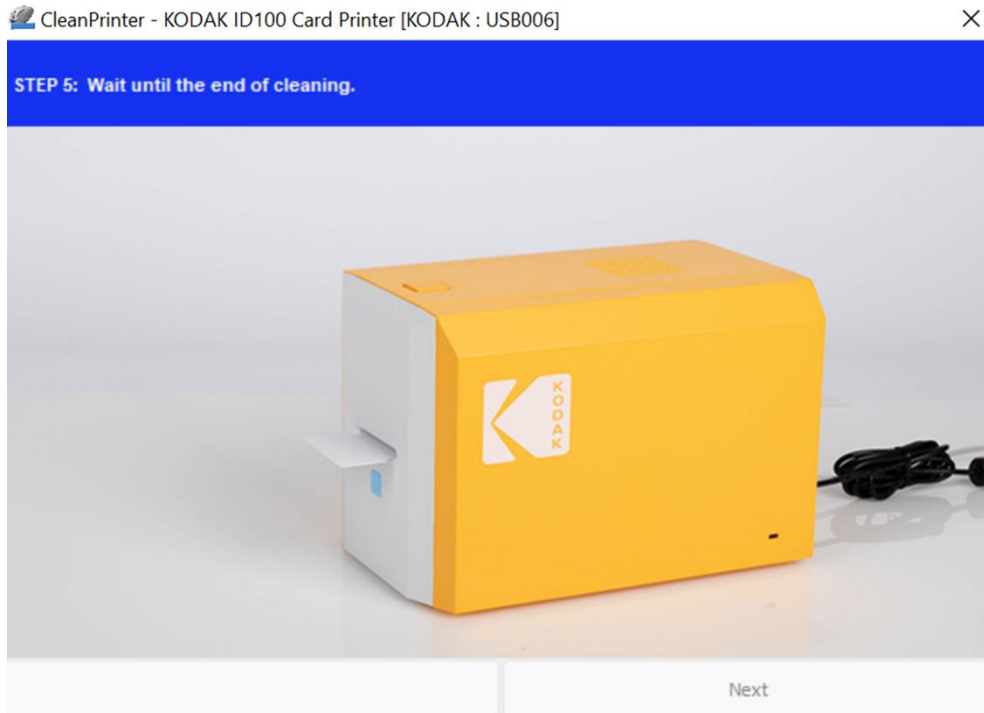


Figure 56 Printer cleaning Step 5

Step 6. Remove the exclusive long cleaning card and install the ribbon cartridge into the printer.

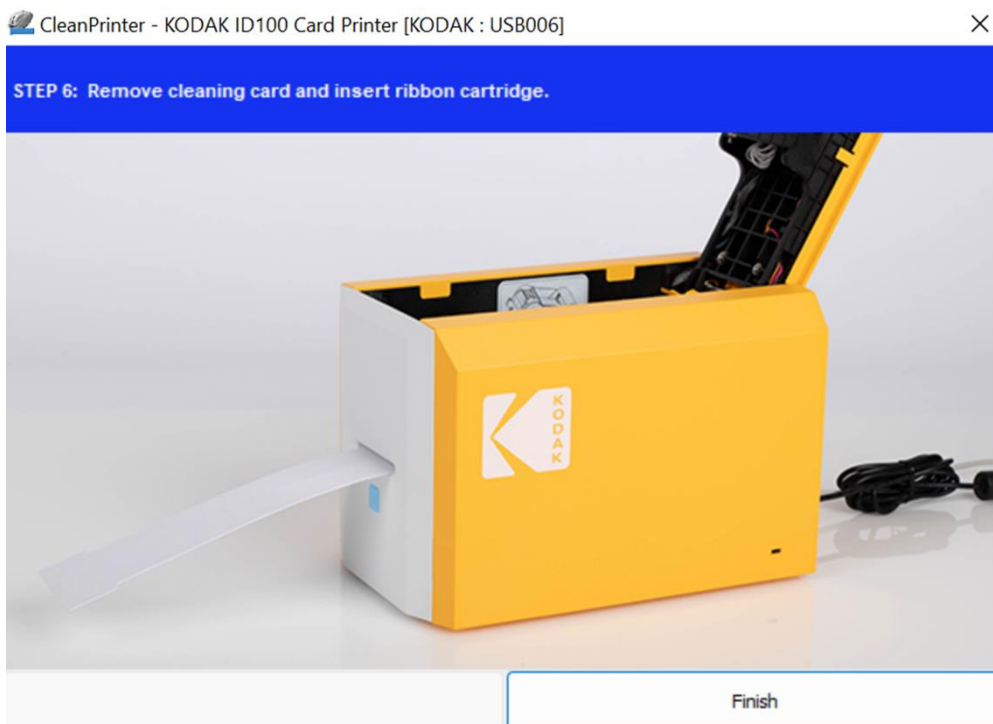


Figure 57 Printer cleaning Step 6

5.3 TPH (Thermal Print Head) replacement

1. Check the serial number and the resistance of new Thermal Print Head as shown in the photo.

TPH type: A = KEE, B = KPE

Serial No.: see the red box.

TPH resistance: see the green box.

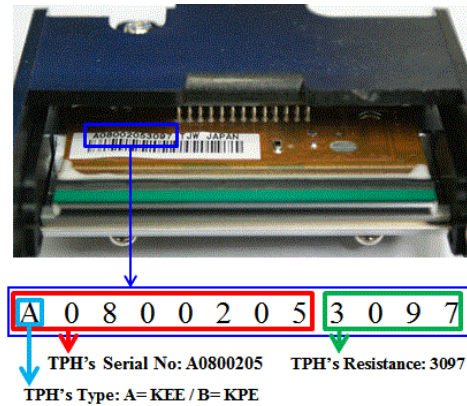


Figure 58 Thermal Print Head

2. Set up the new Print Head's configuration using CardPrinterConfig program.

Step1: Run 'CardPrinterConfig' in Utilities of the Utilities package and click the expansion button.

Step2: Click "Change Head" in the extended setup.

Step3: Input the Print Head's Serial No., Resistance and Type (choose KEE or KPE) on the Print Head's label and click "OK".

Step4: Click "Set Config" to set the new Print Head's configuration.

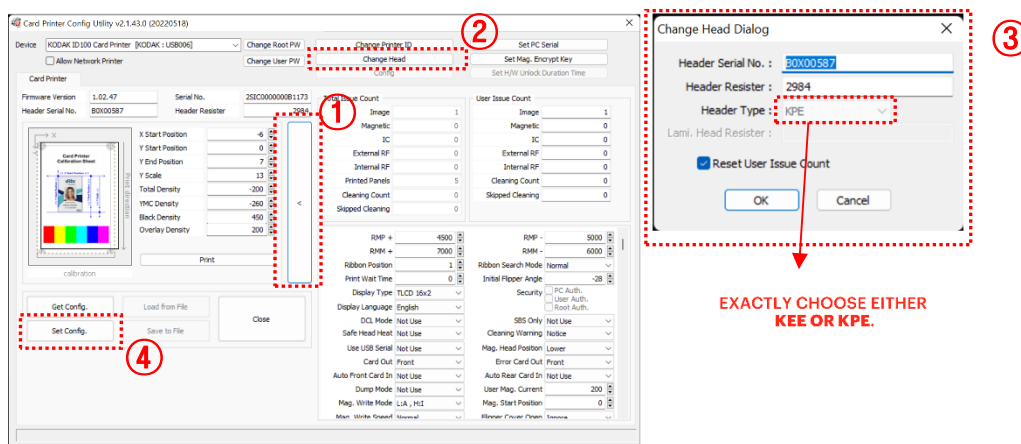


Figure 59 Print head setup

4. Replacing the new Print Head

Step1: Remove the old Print Head from the top cover.

- (1) Turn off the printer and open the top cover.
- (2) Hold the Print Head and press the locked hook, this will disconnect the Print Head.
- (3) Disconnect the Print Head from print head wire carefully.

(Caution: Print Head may be HOT.)

Step2: Installing the new Print Head

- (1) Connect new Print Head to the print head wire.
- (2). Put the new Print Head on the Shift and pull it up until it's locked.



Figure 60 Print head replacement

5. Setup the print position and the color density.

After installing the new Print Head, you must reset the print position and the color density using CardPrinterConfig utility. Refer to “4.1.2 Default setting”

6. Calibration of Print Head Angle

For optimal print quality, the Print Head is positioned at a precise angle in conjunction to the printable card.

If the print quality of your printer is poor, it may be due to an improper print head angle.

The print head angle can be adjusted using



Figure 61 Print head angle

the screw highlighted in Figure 61.

We recommend small 90 degree adjustments at a time.

5.4. Card movement

5.4.1. Cards cannot enter the printer from input hopper.

- **If you have non-standard cards or bad cards.**
Change the cards. You can use only ISO CR-80 cards (54mm x 86mm).
- **Card thickness control lever is set improperly.**
Not applicable in this printer. Be sure your cards are between 15 to 40mils in thickness
- **Bad card array.**
Not applicable in this printer.
- **Cards have static and moisture.**
Not applicable in this printer.

5.4.2. Card Transfer Error occurs when the ribbon is coiled around the transfer roller or the printing roller.

Open the top cover and remove the card and the coiled ribbon from KODAK ID100S printer using the front LED buttons. If this problem occurs frequently, see below for potential causes.

- **Non-standard cards or bad cards.**
Change the cards. You can use only ISO CR-80 cards (54mm x 86mm).
- **The transfer roller or the printing roller is contaminated with dust and dirt.**
Remove the dust and dirt with the cleaning kit as discussed in section 5.2.
- **Wrong printing position setting.**
Please contact the local supplier.
- **When operating temperature and humidity is out of the acceptable operating limit of the printer.**
Adjust the operating environment of the printer.

5.4.3. An Error occurs while the card is being transferred.

First, check the Error message on the Watchman program.

Open the top cover and remove the card by LED buttons.

If this problem occurs frequently, check the following:

- **Non-standard cards or bad cards.**
Change the cards. You can use only ISO CR-80 cards (54mm x 86mm).
- **Printer setting is changed or is not proper.**
Please contact the local supplier.
- **The transfer roller or the printing roller is contaminated with the dust and dirt.**
Remove the dust and dirt with the cleaning kit as discussed in section 6.1.
- **The card surface is contaminated with the dust and dirt.**
Check the card surface and remove the dust and dirt and try again. If this problem occurs again, retry with new card.

5.5. Printing quality

5.5.1. Not printed or wrong colors printed in spots.

- **The card surface is contaminated with dust and dirt.**
After checking the card, change it to another card.
- **The cleaning roller is contaminated with dust and dirt.**
Check the cleaning roller. If there is a lot of dust, change the cleaning roller to the new one.
- **Dust in the printer.**
Clean the inside of the printer with the cleaning kit.

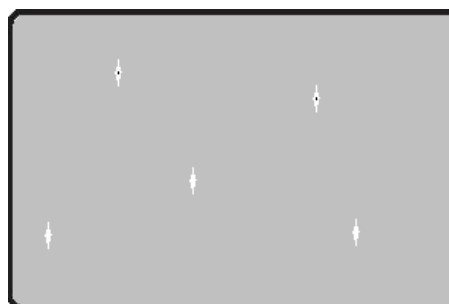


Figure 62 Printing quality trouble 1

5.5.2. Not printed horizontal line.

- **The ribbon cartridge is installed improperly.**
Check the ribbon cartridge installation state and whether the ribbon has wrinkles.
- **The printer head is contaminated with dust and dirt.**
Clean the printer head with cleaning kit.
- **The printer head is damaged.**
Please contact the local supplier to replace the printer head.



Figure 63 Printing quality trouble 2

5.5.3. Unclear or not a uniform print.

- **Uneven or bad card surface.**
Change the card.
- **Too high or low setting of the color density.**
Please contact the local supplier. The color density default of your printer needs to be changed.
- **The printer head is contaminated with dust and dirt.**
Clean the printer head with cleaning kit.

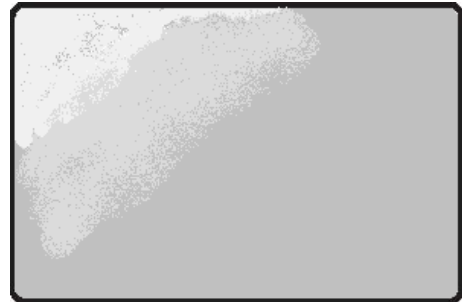


Figure 64 Printing quality trouble 3

5.5.4. Color print is not aligned.

- **Non-standard cards or bad cards.**
Change the cards. You can use only ISO CR-80 cards (54mm x 86mm).
- **Uneven or bad card surface.**
Change the card.
- **The transfer roller or printing roller is contaminated with the dust and dirt.**
Clean the rollers with the cleaning kit as discussed in section 5.2.

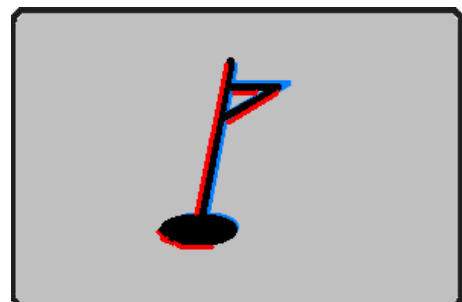


Figure 65 Printing quality trouble 4

- **Worn-out printer.**
Please contact the local supplier.

5.5.5. Unplanned color print.

- **Non-standard cards or bad cards.**
Change the cards. You can use only ISO CR-80 cards (54mm x 86mm).
- **Uneven or bad card surface.**
Change the card.
- **The transfer roller or printing roller is contaminated with the dust and dirt.**
Clean the rollers with the cleaning kit as discussed in section 5.2.
- **Worn-out printer.**
Please contact the local supplier.

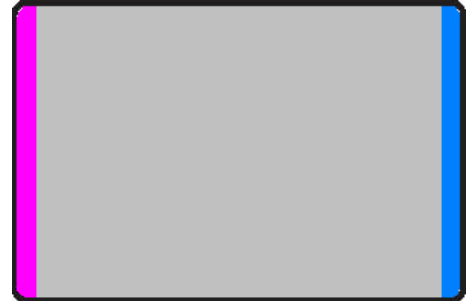


Figure 66 Printing quality trouble 5

5.6. General operation

5.6.1. Ribbon snapped during printing.

Open the top cover and take out the cartridge. After putting the snapped pieces on together, install the cartridge again. Check the following if this kind of problem occurs frequently.

- **Non-standard cards or bad cards.**
Change the cards. You can use only ISO CR-80 cards (54mm x 86mm).
- **Too high or low setting of the color density.**
Please contact the local supplier. The color density default of your printer needs to be changed.

5.6.2. Watchman Message “Ribbon Not Found”

Open the Top Cover and check the status of ribbon installation. If it occurs frequently, check the following:

- **Not genuine ribbon.**
Change to the genuine ribbon.
- **Ribbon is consumed.**
Printing is not possible if ribbon is used up. Change the ribbon.
- **Snapped ribbon.**
Open the top cover and take out the cartridge. After putting the snapped pieces on together, install the cartridge again.

5.6.3. Printer does not operate even if the printing data has been transmitted. Check the following.

- **Printer power off.**
Check the power. Turn on the printer power.
Check the printer adaptor whether it is connected to a socket and the printer.
- **Bad power adaptor.**
Please contact the local supplier for replacement of the adaptor.
- **The printer driver is “Offline”.**
Change the printer driver to “Online”.
- **The printer’s USB cable is disconnected, or the connection is bad.**
Check the cable’s connection between PC and the printer.
If it is not good, connect the USB cable again.
- **Bad USB cable.**
Change the USB cable.
- **The printing is operated with another printer driver.**
Select the correct KODAK ID100S printer driver again.
- **Wrong USB port setting of the printer driver.**
Check the port setting of the printer driver and change the port setting.
- **No ribbon in the printer or error occurred.**
Install ribbon into the printer or resolve the error.

- **Too long power or USB cable (more than 1.5M).**
Use the cable provided with the printer.
- **PC's USB port is down:**
Reboot your PC.

6. Specification

Model	KODAK ID100S	
Printing	Print Type	Dye-Sublimation
	Print Area	Edge to Edge
	Resolution	300dpi (Color & Mono) / 600 & 1200dpi (Mono only)
Card	Card Feeding	Manual Hand-Fed
	Card Size	ISO CR80
	Card Type	PVC, PET, Composite PVC
	Card Thickness	0.76mm (30mil)
Printing Speed*	Monochrome	6 sec./card
	YMCKO	24 sec./card
System	Control Panel	1 LED Button
	Supported Platforms	MS Windows 7/ 8/ 10, 11, Mac OS, Linux
	Communication	USB
	Power Supply	Free Voltage (AC 100/220V, 50~60Hz)
	Power Consumption	48W
Dimensions	Millimeter (WxHxL)	168 x 179 x 259
	Inch (WxHxL)	6.6 x 7.0 x 10.2
Weight	Kg / Lbs	2.7 / 6.2

*Print Speed: May change under specific conditions.

Specifications and available may change without notice.

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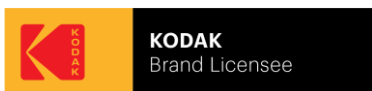
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Return Materials Authorization

In order to make a warranty claim you must contact IDP Corp., Ltd. or an IDP's regional representative. You will be responsible for packaging the printer for shipment and the costs of shipping and insurance of the printer from the point of use of the printer to the IDP or IDP's regional representative. The IDP Corp., Ltd. or IDP's regional representative will bear the costs of shipping and ensuring the printer from the repair location to the address from which the printer was shipped.

Before returning any equipment for in-warranty or out of warranty repair, contact IDP Corp., Ltd. or an IDP regional representative for a Return Materials Authorization (RMA) number. Repack the equipment in the original packing material and mark the RMA number clearly on the outside of the box. For more information about RMA or warranty statements, refer to the Warranty section on the KODAK Photo ID Card Printer website (www.idprinter4u.com).

- **RFID(13.56MHz) Usage**

The RFID Tag is used for the security and the recognition of the ribbon. To get the optimized printing quality on the printed card, a genuine IDP ribbon should be used to print cards by using the KODAK ID100 printer. The KODAK ID100 printer can recognize the genuine ribbon by reading the encoded information on the RFID Tag on the ribbons. To support user's various requirements for printing cards appropriately, many kinds of ribbons should be supplied and the KODAK ID100 printer should distinguish the type of installed ribbon. According to the installed ribbon type and the ribbon supplier, the printer driver of the KODAK ID100 printer can select the color profile and create the printing data.

FCC Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1.This device may not cause harmful interference, and
- 2.This device must accept any interference received, including interference that may cause undesired operation.

FCC notification to users

This equipment has been tested and found to comply with the limits for a CLASS B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference, the user is encouraged to try to correct the interference by consulting with a dealer or an experienced technician for technical assistance.

Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void user's authority to operate the equipment.