

# CP55 User Manual



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# 1. Introduction

## 1.1 Printer outside features

For the user's convenience, CP55 printer status can be seen through LCD with LED and the printer can be controlled by two LED buttons. It takes a power via the 24V adaptor provided with the printer. Using USB and Network port, it is communicated with the user's PC.

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



- ① Top cover open button
- ② Fan
- ③ Input hopper
- ④ LED buttons
- ⑤ LCD show the process status

*Figure 1 CP55 front features*



**Figure 2 CP55 rear features**

There are two models in CP55 card printer series such as CP55, CP55 Dual.

**CP55 (Figure.3)** is the standard card printer. It can be printed in single side with the encoding. This manual is prepared based on CP55.

**CP55 Dual (Figure.4)** has a flipper which can enable to print in both sides. CP55 Dual can print the both side of the card with the encoding.



**Figure 3 CP55-S (Standard)**



**Figure 4 CP55-D (Dual)**

## 1.2. Printer inside features

In CP55 printer, the ribbon is installed by a ribbon cartridge which can be used semi permanently. The following shows the inside functional features found on your CP55 printer.

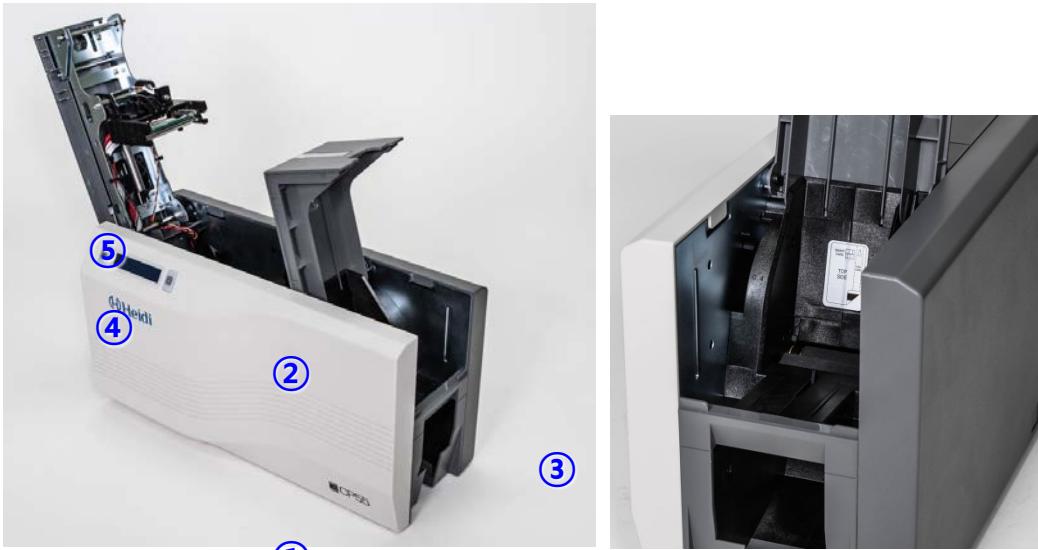


Figure 5 CP55 Inside features

### ① Output hopper(Stacker)

Collect the printed card and/or encoded cards. Maximum 40 cards are loaded and the extra printed/encoded card is passed out. It can be withdrawn when pulling forward.

### ② Input hopper

Load the cards for printing. Maximum 100 cards are loaded when cover is closed; Maximum 200 cards are loaded when the cover is opened.

### ③ Card thickness control lever

Adjust the cards thickness.

### ④ Ribbon cartridge

Install the ribbon and the disposable cleaning roller.

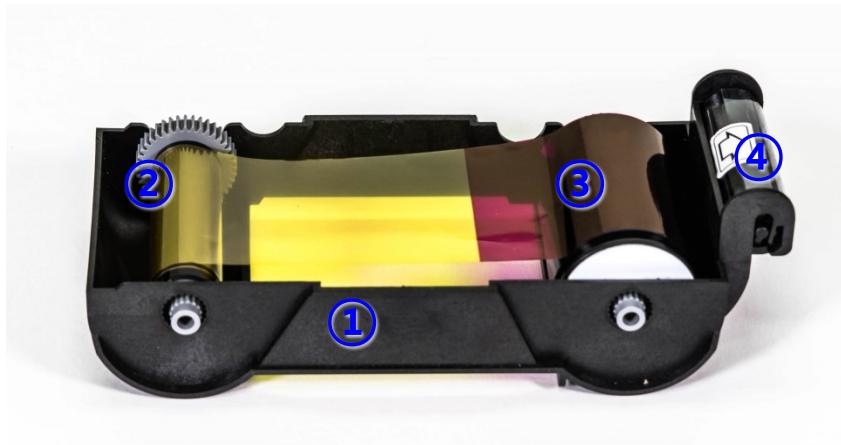
### ⑤ Thermal Print Head

This enables the cards to be printed.

(Caution!: This is very hot after printing. Do not contact the surface of the Thermal Print Head with fingers or a sharp metal object to avoid degrading print quality or damaging printer head permanently.)

### 1.3 Ribbon cartridge features

CP55 printer uses the ribbon cartridge as below picture.



- ① Ribbon cartridge
- ② Take up parts
- ③ Supply parts
- ④ Disposable Cleaning Roller

*Figure 6 Ribbon cartridge features*

#### ① Ribbon cartridge

- Install a ribbon and a disposable cleaning roller provided with the ribbon.
- This semi-permanent ribbon cartridge is a component of the printer. Printer does not operate if it is broken or damaged. In this case, please contact printer reseller.

#### ② ③ Take up & Supply parts

- Ribbon is wrapped to the supply parts as the Picture. It should be installed as the Figure.6

#### ④ Disposable cleaning roller

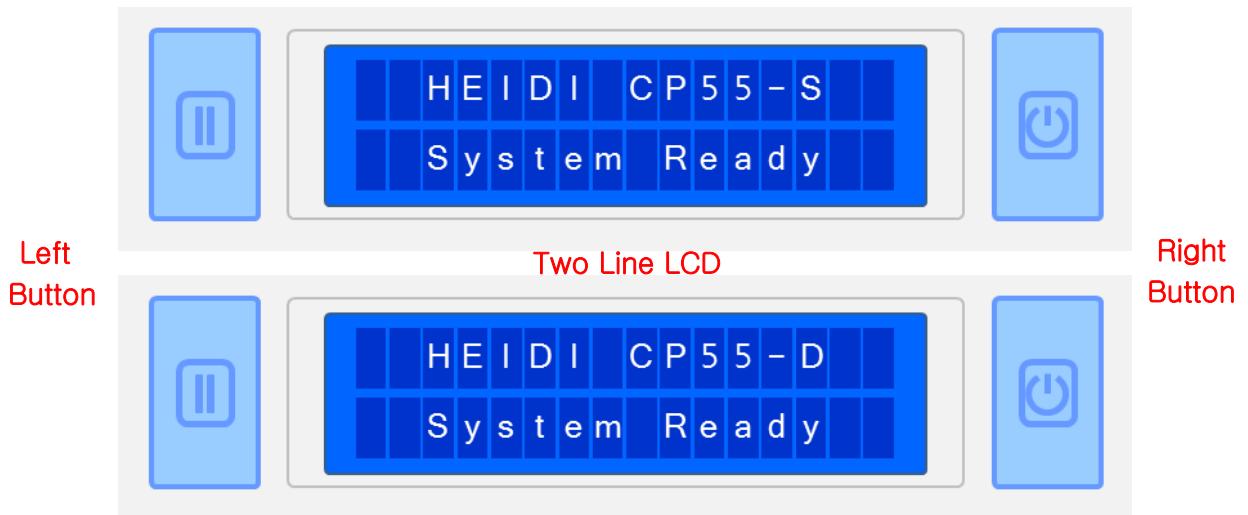
- It removes dust on the surface of card to improve print quality before the card is printed.

It should be changed together with the ribbon.

- After installing the disposable cleaning roller to the ribbon cartridge, peel off the protective film.
- It is provided with the ribbon.

## 1.4 Display and Buttons

Control panel of Printer consists of 2 lines LCD and 2 buttons. The 2 buttons have the functions as shown in the Figure 7. The main LCD message of CP55 printer is 'HEIDI CP55-S'. On the other hand, CP55 Dual printer is 'HEIDI CP55-D'.



*Figure 7 CP55-S & CP55-D Display and Buttons*

The status of CP55 is 'Initializing' when boot up. It is changed to 'System Ready' if the printer is fine. It changes to 'Printing' when the printer is working. In case of sensing an error, it is changed to 'Error' status. Whenever the top cover is opened, the operation is stopped and the status is 'Top Cover Open'.

The functions of the button under each status are as below table.

Status	Left Button	Right Button
Initializing	N/A	N/A
System Ready	Ribbon Type/Balance	Sleep (Hold on 5 sec.)
	User Printed Counts	Initializing (when Sleep Mode)
	Do Test Print	OK
	Network IP Address	
	Subnet	
	Gateway	
	Network MAC Address	
Printing	Pulling out the card	
	N/A	N/A
Error	Retry	Cancel
Top Cover Open	Move to backward a card	Move to forward a card
	Cleaning Mode (when both buttons are pushed)	

## 2. Printer installation

### 2.1. Connecting a power and a USB cable

Connect the power and USB cable as the below picture. Please refer to the 'Network Configuration' if you use the LAN connection.



*Figure 8 CP55 Connection of power and USB cable*



*Figure 9 CP55 Dual Connection of power and USB cable*

## 2.2. Fitting the ribbon

Before printing, prepare the related items such as a card, a ribbon and a cleaning roller. In this section we invite you to know the proper method of installing the ribbon and the cleaning roller into the printer.

**(1) Turn off the printer**

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



Figure 10 Top Cover open

**(3) Take out the ribbon cartridge.**



Figure 11 Take out the ribbon cartridge

**(4) Install a ribbon into the ribbon cartridge as the right picture.**



Figure 12 Loading the ribbon 1

**(5) Insert the supply side of the ribbon to no.1 hole and press the opposite (no.2). Insert the take-up side of the ribbon same method to no.3 and no.4. After inserting, tighten the ribbon.**

*(Caution! If the ribbon is not tightened, a rolling up error might be happened.)*



Figure 13 Loading the ribbon 2

**(6) Install the disposable cleaning roller to the ribbon cartridge.**



Figure 14 Installing the cleaning roller

**(7) Peel the protective wrapper from the cleaning roller.**

After removing the protective wrapper, the cleaning roller should be kept clean from fingerprints, dust and foreign substances to avoid contamination because it is adhesive.

**(Caution! Do not use without peeling off the protective wrapper because the cleaning roller cannot perform its function.)**



*Figure 15 Peeling the protective wrapper*

**(8) Install the ribbon cartridge into the printer after installing the ribbon with a cleaning roller to the cartridge.**



*Figure 16 Installing the ribbon cartridge*

**(9) Close the top cover**

**(If it is not closed properly, check the installation state of the ribbon cartridge.)**



*Figure 17 Close Top Cover*

## 2.3. Loading the cards

This section shows how to load the plastic cards.

- (1) Open the input hopper cover.  
Adjust the card thickness with the  
card thickness control lever.**

(Caution! If the adjustment is not correct, it will make some error. Use the type of cards in the specification of this manual. Always keep the card surface clean state.)

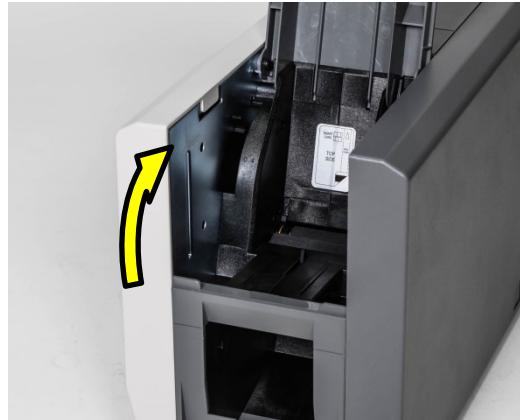


Figure 18 Adjusting the card thickness lever

- (2) To separate cards from each other, push a stack of cards back and forth to an angle about 45 degrees vertically.**

(Static charge makes cards stuck with significant adhesive force. These cards must be physically separated from each other before inserted into the feeder. If not separated, feeding or printing problems may occur.)

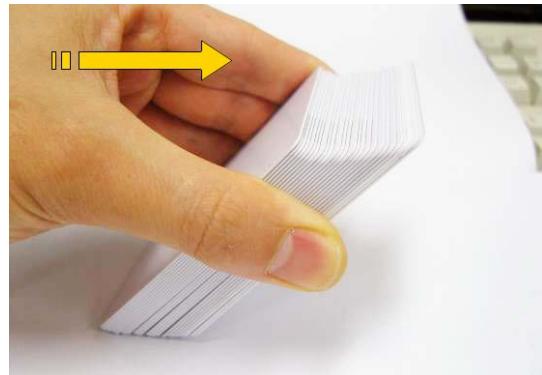


Figure 19 Preparing the card 1

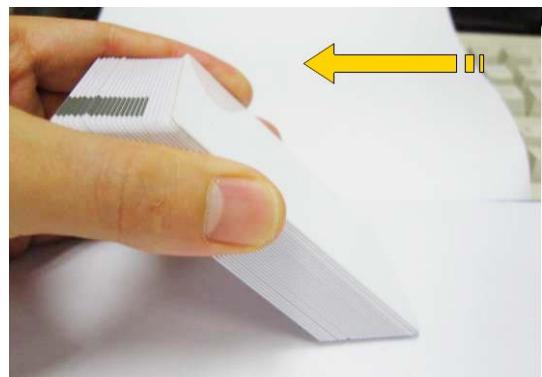
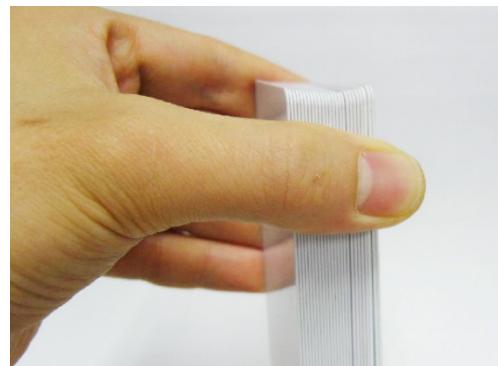


Figure 20 Preparing the card 2

**(3) Stand the stack of cards vertically after separating**



*Figure 21 Loading the cards 1*

**(4) Load the cards on the input hopper properly and close the hopper cover.**



*Figure 22 Loading the cards 2*

**(5) When insert each one card, insert the card to the end as left picture**

(Caution! If the printer has a lock device, a card can't be inserted one by one. You can select the 'lock device' option when you order the printer. It can lock the top cover and hopper to prevent extracting the ribbon and cards without key.)



*Figure 23 Loading the cards 3*



*Figure 24 Loading the cards 4*

## 2.4. The withdrawal of printed cards.

Printed cards are passed out to the stacker of front bottom side of CP55 printer.



*Figure 25 CP55 Withdrawal a card*

CP55's stacker can be divided as following image. so you can withdraw the printed cards easily.

## 2.5. Rear Stacker (Option)

CP55 can install a rear stacker for option at the back of the printer. In case of CP55, please install into the slots at the backside. In case of CP55 Dual, please open the back cover of the printer and install it.



Figure 26 CP55 installation of Rear Stacker



Figure 27 CP55 Dual installation of Rear Stacker

After that, set the value of 'Card Out' to 'Back' in the Configuration Program.

In case of CP55 Dual, set the value of 'Flipper Cover Open' to 'Ignore' in the Configuration Program

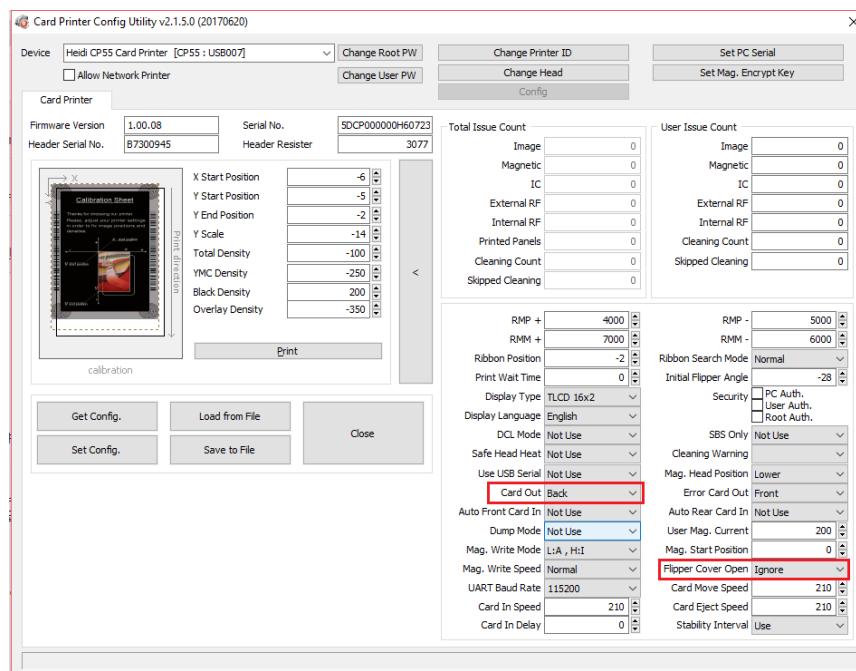


Figure 28 Setting values in the Configuration program

## 2.6. Driver installation (Windows 7 / 8 / 10)

**(1) Please insert the installation CD.**

**Please choose language and click “Driver Install”.**



Figure 29 Install printer driver 1

**(2) When “User Account Control” window is opened, click “Yes”**

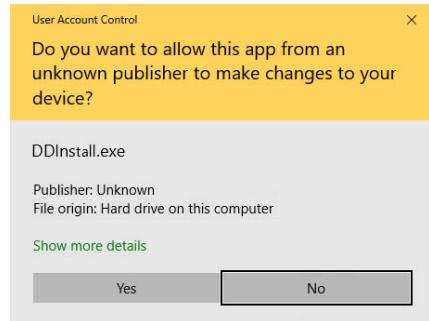


Figure 30 Install printer driver 2

**(3) STEP 1:**

**Please turn off printer if it is connected to PC. Please click “Next”.**

**When you click “Next”, older driver will be removed automatically.**

This process will take several minutes to remove older driver.

You can select the languages by selecting the combo box as shown on the left picture.



Figure 31 Install printer driver 3

## (4) STEP 2:

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

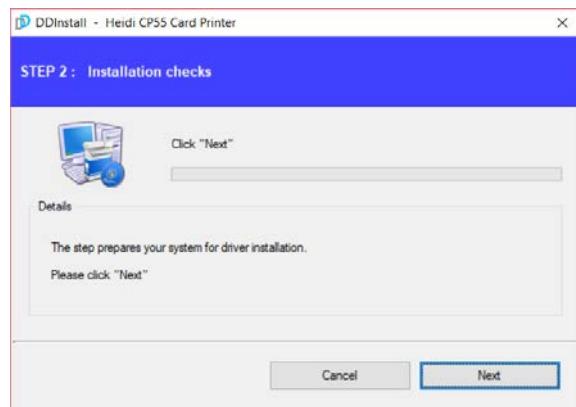


Figure 32 Install printer driver 4

## (5) STEP 3: - USB

Please click “Next” if printer is connected to USB only.

If you want to install the driver for a printer connected to network, please select the “TCP/IP Network port” and select the proper printer as step (7).



Figure 33 Install printer driver 5

## (6) Please turn on the printer

(Network cable is not supplied. Please ask network administrator for more questions.)



Figure 34 Install printer driver 6

## (7) STEP 3: - Network

Please select the printer that you want to install in the list and click “OK”.

(If no printer comes out on the window, please check the connection.)

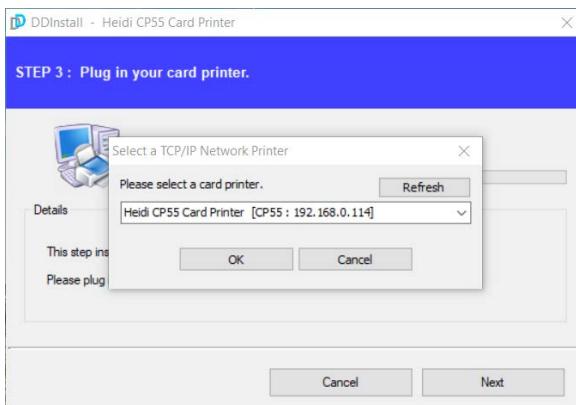


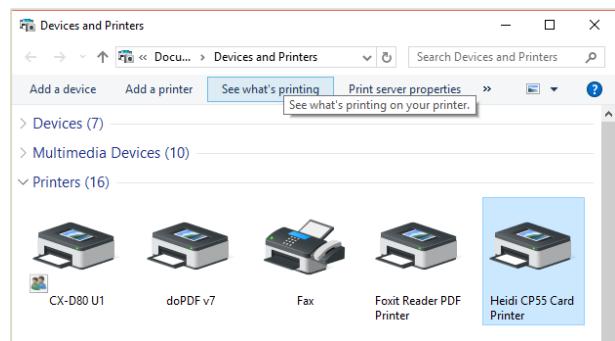
Figure 35 Install printer driver 7

**(8) When driver installation is completed, please click “Close”**



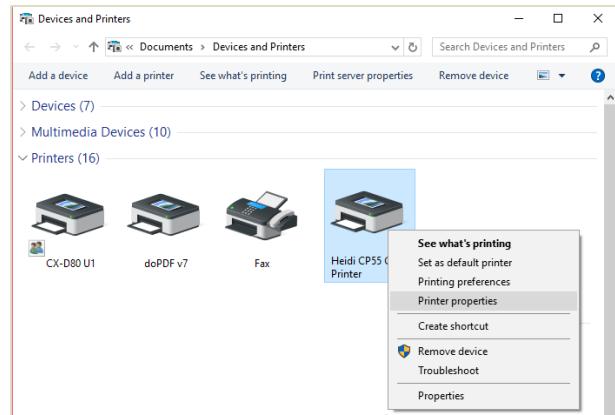
**Figure 36 Install printer driver 8**

**(9) Please open “Devices and Printers” from “Hardware and Sound”. Please check if “Heidi CP55 Card Printer” is created.**



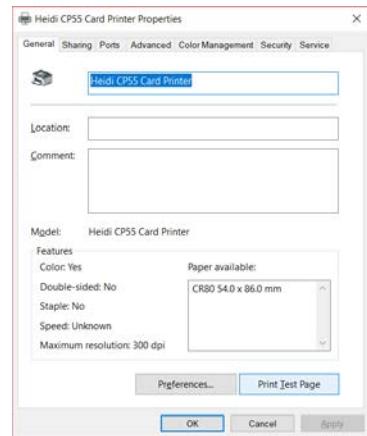
**Figure 37 Install printer driver 9**

**(10) Please click the right mouse button after cursor is placed on “Heidi CP55 Card Printer” icon. Click “Printer properties”.**



**Figure 38 Install printer driver 10**

**(11) Please select “general” tab and click “Print test page” in “Heidi CP55 Card Printer Properties” window.**



*Figure 39 Install printer driver 11*

**(12) Please check test card if it is printed properly and click “Close” if a card is printed properly.**

(If card is not printed or error comes out, please refer to “Trouble Shooting”).

Heidi CP55 Card Printer

A test page has been sent to your printer

This test page briefly demonstrates the printer's ability to print graphics and text, and it provides technical information about the printer. Use the printer troubleshooter if the test page does not print correctly.

[Get help with printing](#)

[Close](#)

*Figure 40 Install printer driver 12*

# 3. Driver configuration

## 3.1. Printer Properties

To check printer properties, you need to open printer driver. Please open “Devices and Printers” and right-click “Heidi CP55 Card Printer”.

Click “Printer Properties”.

### (1) Printing Preferences

Please click “Preferences...” shown on the bottom of the left picture.

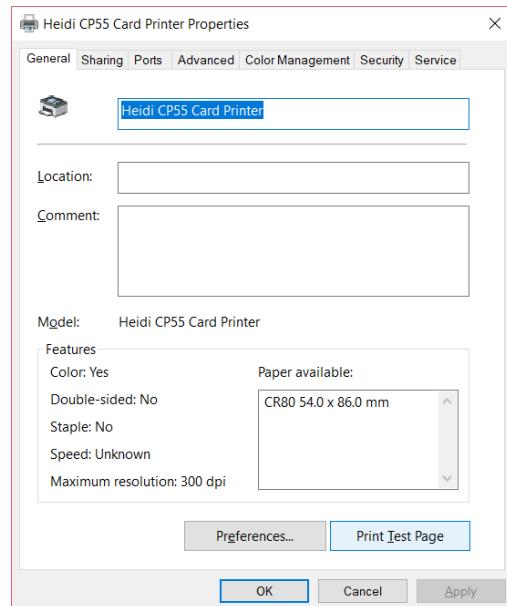


Figure 41 Printer properties

### (2) Layout

- You can select either horizontal or vertical printing direction. To apply your selection, click “OK”.

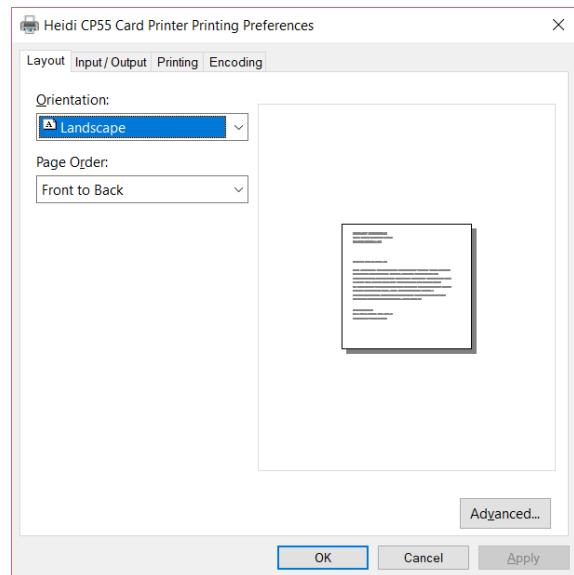


Figure 42 Layout

### (3) Input / Output

#### [ Supply Tray ]

**Supply** : You can select “Auto” if CP55 has 1 input hopper. Please select the hopper if it has a multi hopper.

**Tray** : You can select “CR-80” because CP55 supports CR80 cards only.

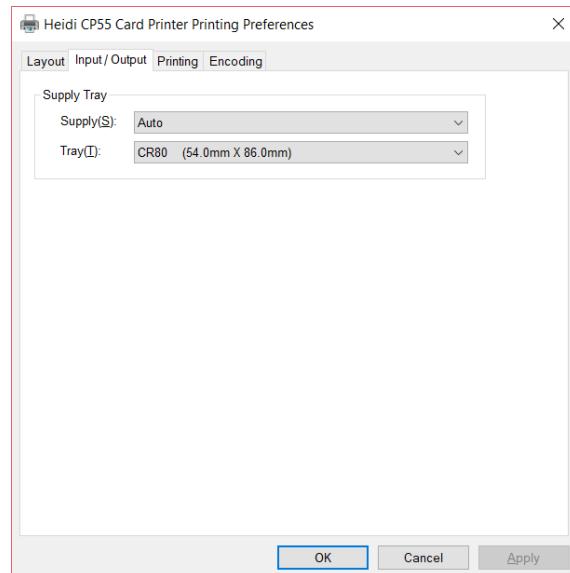


Figure 43 Input / Output

### (4) Printing

**Do Printing** : You can select printing or not

#### [ Print Side ]

**Side** : Please select one side printing or both sides printing (It is possible only when you have a flipper.)

#### [ Front / Back ]

**Color** : You can select color or mono print.

**Flip** : You can flip an image

**Media / Mask** : You can indicate the area to print by using a predefined mask or user defined mask (white card, smartcard, Magnetic stripe card, etc.) on front or back side.

#### [ Printing ]

**Ribbon** : It shows the type of installed ribbon. You don't need to select this option as CP55 recognizes ribbon automatically with RF Tag.

**Speed** : Set printing speed and quality

**Mode** : Set printing mode

**Standard** : Default print mode. Prints all area of printing

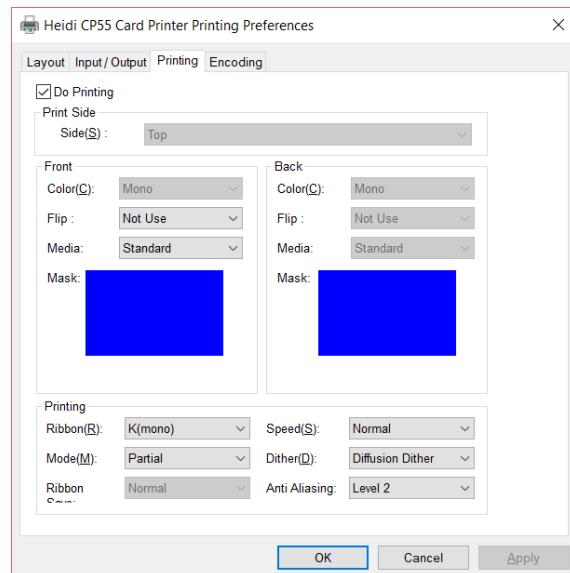


Figure 44 Printing

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)): Fluorescent

**Partial** : Partial print mode. It is printed partially for the print area only. Printing speed can be faster than standard mode.

**Dither** : There are 3 possible selections, Threshold, Random, and Diffusion Dither. It is performed with K and KO ribbon only. (Please select “Diffusion Dither” for high quality.)

**Ribbon Save** : Select the split function or not when K ribbon is installed

**K ribbon Split** : You can set the both sides (Front:YMCO, Back:K) to save color ribbon(YMCKO, HYMCKO, BYMCKO). It is only activated while printing both sides option is set.

## (5) Encoding

This tap will be shown only when Magnetic encoder is installed.

**Do Encoding** : You can select encoding or not

**Coercivity** : You can select the coercivity to encode

**Loco** : 300, 600 Oe.

**HiCo** : 2760 Oe.

**SpCo** : 4000 Oe.

**Auto** : Defined automatically

**Repeat Count** : You can select the retry count to encoding when encoding is failed

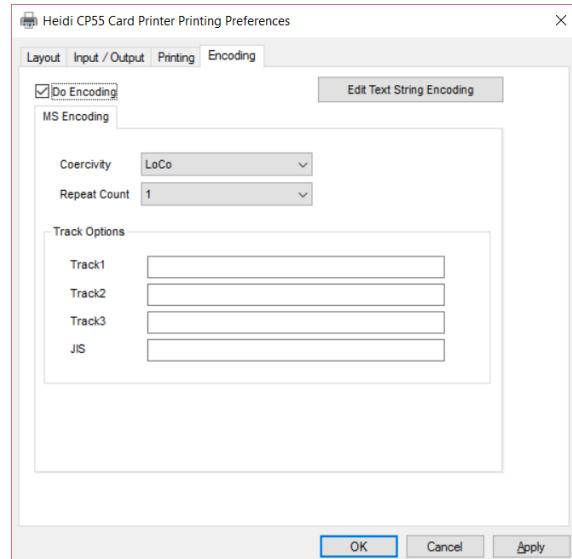


Figure 45 Encoding

## (7) Encoding Advanced Option

**Card Stripe Side** : The location of magnetic stripe [Bottom / Top]

**Before Flip** : Do flipping before encoding [No / Yes]

**After Flip** : Do flipping after encoding [No / Yes]

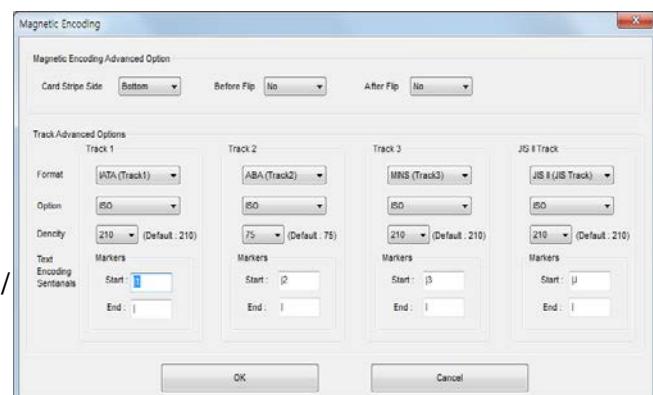


Figure 46 Magnetic Encoding Advanced Option

**Track Advanced Options** :

**Format** : Encoding format (IATA, ABA, MINS, JISII, Bits Mode)

**Track 1** : (default) IATA

**Track 2** : (default) ABA

**Track 3** : (default) MINS

**JIS II Track** : (default) JIS II

**Density**: MS encoding density (210, 75)

**Text Encoding Sentinels** : Start, End  
Marker for text magnetic encoding

**Start** : Start Marker

**End** : End Marker

### 3.2. Advanced Options

To change the detailed configuration, In the ‘Layout’ tab shown, Please click “Advanced...” shown on the bottom of the ‘Layout’ tab of the ‘Preferences’.

- **Reset Default Values:** Reset to default.
  
- **Color Correction:** You can correct gamma for colors. You need to use CardPrinterConfig to adjust color densities.
  - **Main [-100:100]** : Correct gamma for all panels
  - **Yellow [-100:100]** : Correct gamma for yellow panel
  - **Magenta [-100:100]** : Correct gamma for magenta panel
  - **Cyan [-100:100]** : Correct gamma for cyan panel
  - **Black [-100:100]** : Correct gamma for black panel
  - **Overlay [-100:100]** : Correct gamma for overlay panel
  
- **Position Processing:** Set criteria for resin black processing.
  - **Color [-32:32]:** to set the position of color panels
  - **Mono [-32:32]:** to set the position of resin or mono panel
  - **Overlay [-32:32]:** to set the position of overlay panel
  
- **Resin Black(K) Processing:** Set criteria for resin black processing.
  - **Text [0:100]:** to set density criteria for extracting black objects
  - **Dot [0:100]:** to set density criteria for extracting black dots
  - **Threshold [0:100]:** to set density criteria on dithering
  - **Dithering Degree [0:100]:** to set sharpness on dithering
  - **Resin Extraction:** You can set the method to extract resin black when you use design programs. It will be set automatically.

- **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 of black
- **Black Dots only:** to extract resin black for all of black and not to print on color panels
- **Not Use:** not to extract resin black

- **Extra Controls :** Other options

- **Fast Alignment [On/Off]:** to set the position of input card to the magnetic encoder or normal printing. If it is on, the printer can save the time to encode
- **Rewritable Erase Density [0:100] :** to set Erase Density on Rewritable printer

- **Wait Option:**

- **Wait at Internal Module Contactless Encoding Position [On/Off]:** to set whether to wait at the Internal RF encoder or not
  - **Card Side [Front/Back]:** to set the direction of card when waiting
  - **Wait Position [-100:100]:** to set the position of card to wait from the criteria position. Unit is 0.1mm
  - **Wait Time [0:1000]:** to set time to wait. Unit is second
- **Wait at External Module Contactless Encoding Position [On/Off]:** to set whether to wait at the External RF encoder or not
  - **Card Side [Front/Back]:** to set the direction of card when waiting
  - **Wait Position [-100:100]:** to set the position of card to wait from the criteria position. Unit is 0.1mm
  - **Wait Time [0:1000]:** to set time to wait. Unit is second
- **Wait at Internal Module Contact Encoding Position [On/Off]:** to set whether to wait at the Internal IC encoder or not
  - **Card Side [Front/Back]:** to set the direction of card when waiting

- **Wait Position [-100:100]:** to set the position of card to wait from the criteria position. Unit is 0.1mm
- **Wait Time [0:1000]:** to set time to wait. Unit is second

### 3.3. Other settings

#### (1) Sharing

You can share a printer with Sharing tab via Network.

Default is unchecked “Share this printer”.

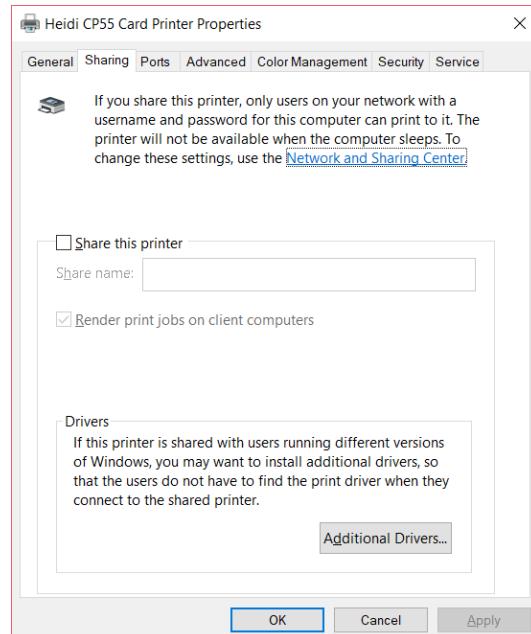


Figure 47 Printer sharing

#### (2) Ports

Port tab shows which port is connected with CP55. CP55 has connection with USB Virtual printer port as left picture because CP55 uses USB connected to PC.

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

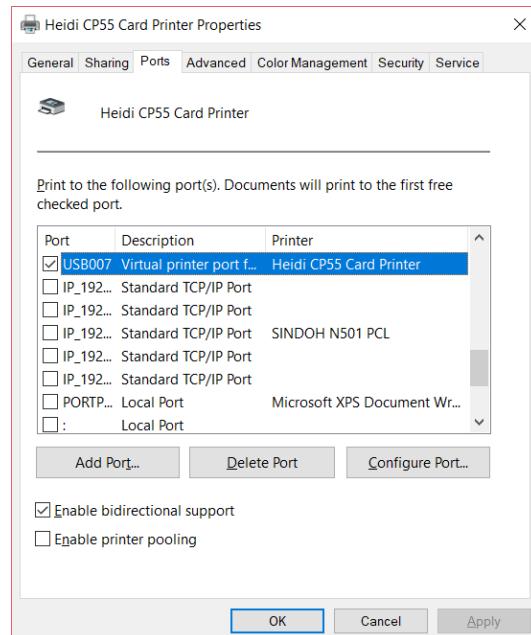


Figure 48 Ports

### (3) Advanced

It is available for Working Time setting, Priority order, Spool print etc. in “Advanced” tab. “Advanced” setting follows MS Windows standard. If you want to change the setting, please refer to the Window manual.

(It is recommended to maintain default.)

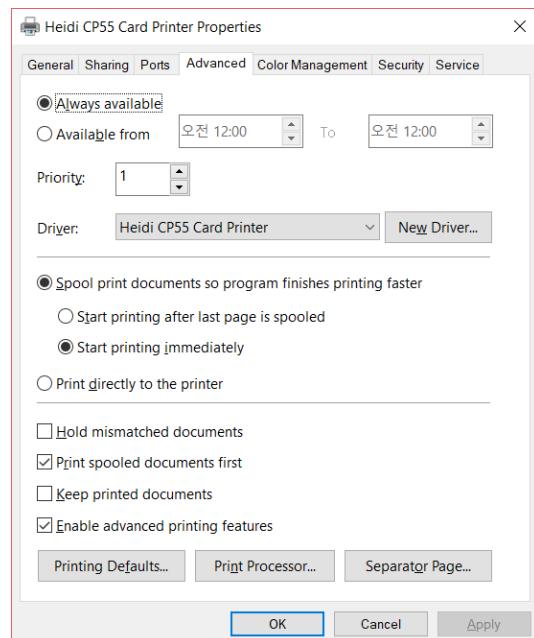


Figure 49 Advanced

### (4) Color Management

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

CP55 uses color profile to express optimal color. The driver selects color profile automatically to fit each ribbon.

(It is recommended to maintain default.)

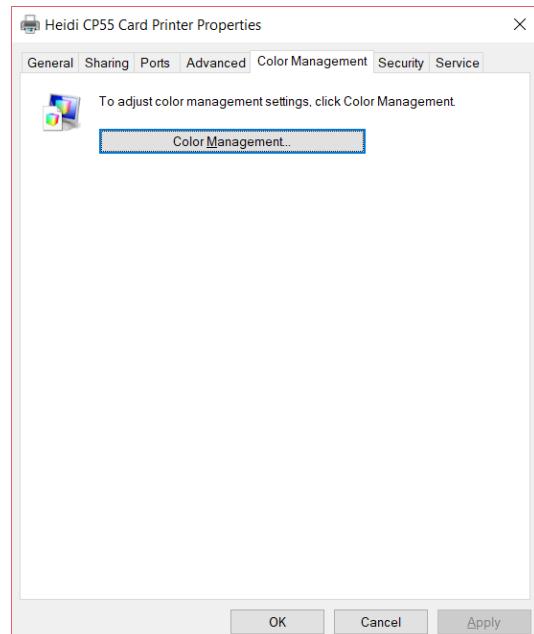


Figure 50 Color Management

## (5) Security

You can set the permission to use a printer. Depend on the permission, the certain group or user can print, manage the printer/documents or not.

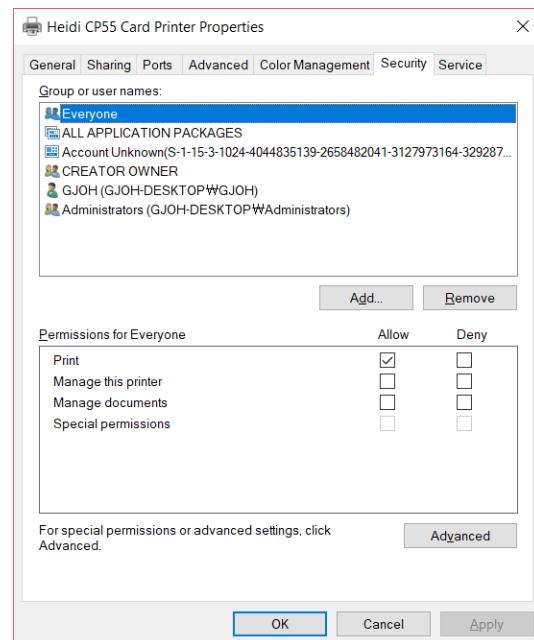


Figure 51 Security

## (6) Service

You can recognize the modules to connect, printer serial, printer ID, driver version, firmware version, type of ribbon & balance and printer's status.

You can print the “technical support sheet” on a card to check printer’s setup value.

To clean printer, please insert a cleaning card in a hopper and click “Clean Printer”. For further details, please refer to “4.2. Cleaning Printer”.

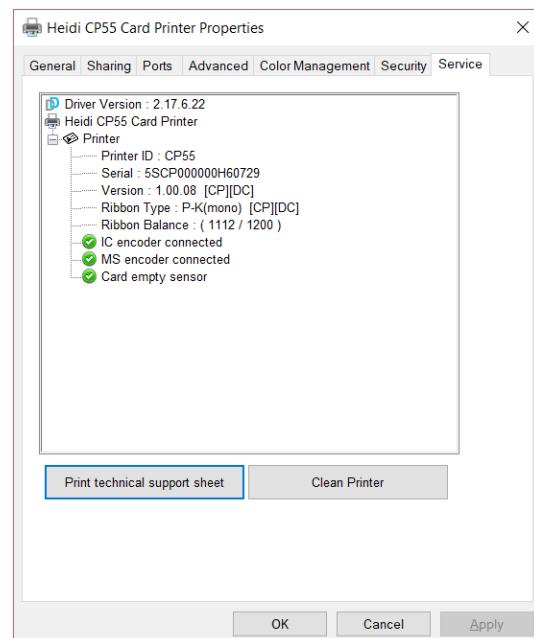


Figure 52 Service

# 4. Utilities

## 4.1. Card Printer Config

CP55 is produced with optimized setting. You need to adjust setting value if required or spare parts are replaced using CardPrinterConfig in our Installation CD.

You can adjust following settings with CardPrinterConfig.

### (1) Run CardPrinterConfig

Password input window is displayed when you run this program. If you input the correct password, the recorded setup value will be shown and you can change values. The password is saved to CP55 printer. So if you use another PC with same printer, previous password is required to run this program. (Default password is none. Please press OK if you have not set password.)

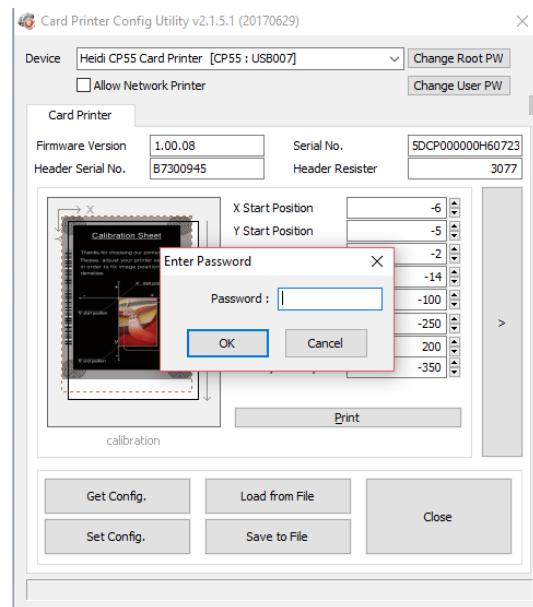


Figure 53 CardPrinterConfig Log-in

When you are successful to log-in, you can set values shown as left picture.

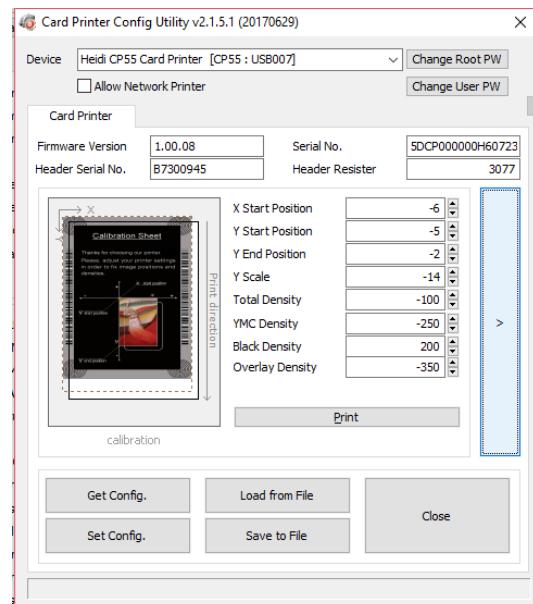


Figure 54 CardPrinterConfig start

## (2) Card Printer Basic Setup

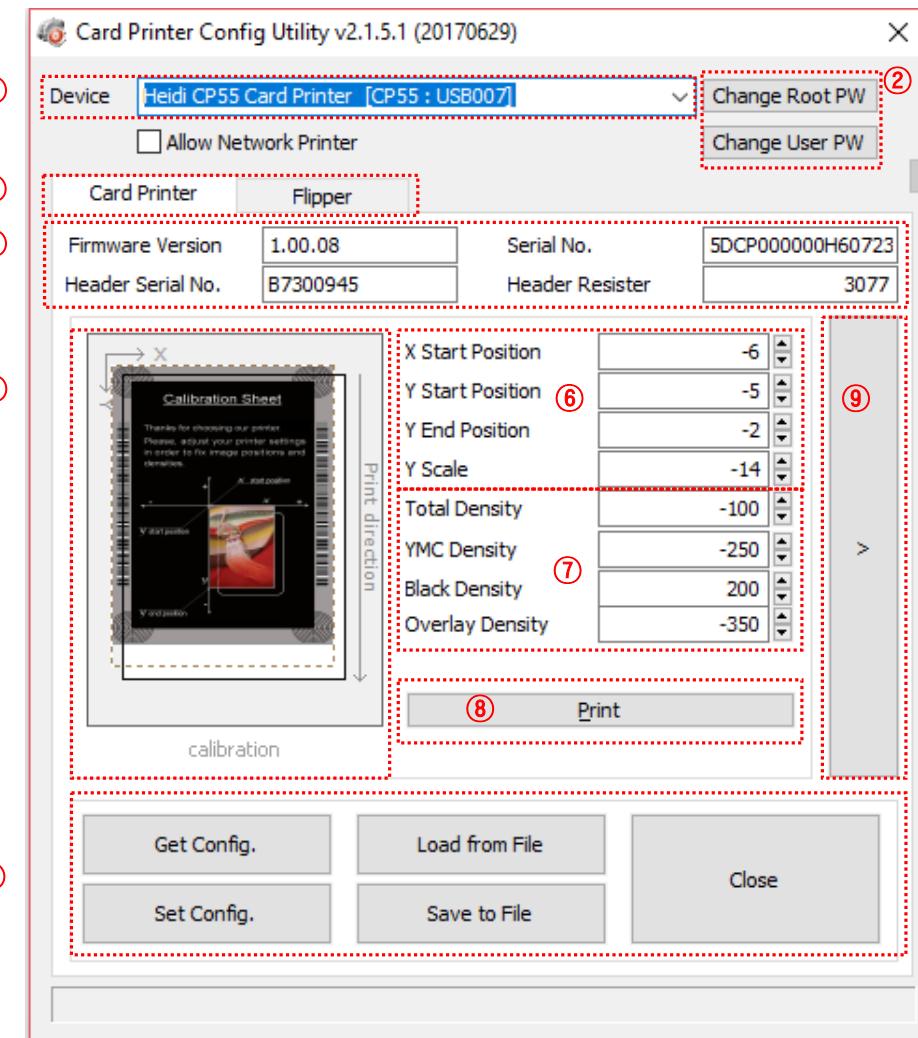


Figure 55 CardPrinterConfig – Card Printer Basic Setup

- ① To show connected printers

**Device:** You can select a printer using pull-down menu. "HEIDI CP55 Card Printer" is a name of printer. "CP55" is printer ID, "USB005" is connected port. If you connect the Network printer, please check the "Allow Network Printer" and select in the pull-down menu.

- ② To set administrator password and user password.

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

**Change User PW:** To set user password for User Authentication.

- ③ Click “Card Printer” tab.(If flipper is installed, you can setup flipper setting value by “Flipper” tab..)
- ④ To show firmware version, serial number of printer and serial number, resister & type of print head.
- ⑤ To show print area. It shows exaggeratedly for user convenience.
- ⑥ To set print area. Please set it properly to print on an entire card because CP55 is a direct thermal card printer. When you click “⑦ Print”, a card is printed as like “④ example”. Please set values properly 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 by following order.

**X Start Position:** Please set right and left properly by adjusting X position.

**Y Start Position:** Please set the start position of printed example image and blank space in the top is 0.4mm ~ 0.5mm.

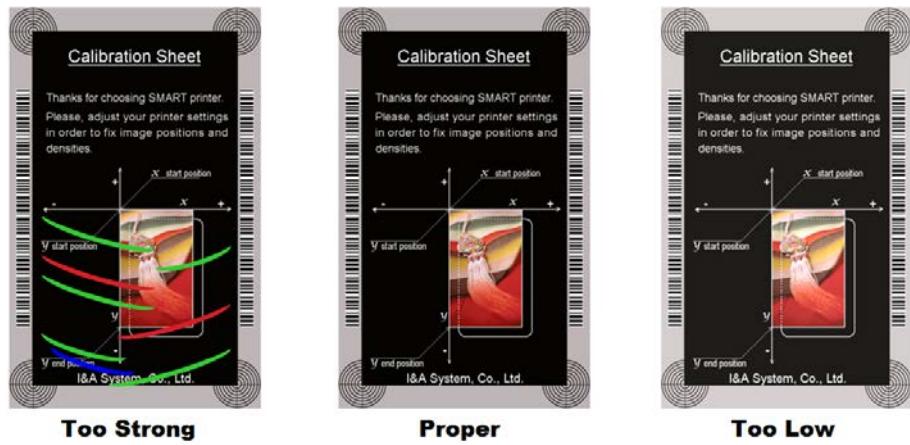
**Y End Position:** Please set the end position of printed example image and blank space in the bottom is 0.4mm ~ 0.5mm. It is recommended to set bigger value for “Y scale” than default.

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

- ⑦ To set density. CP55 enables to set different density for each color, resin black and overlay. So, please set each density for high quality. Please optimize the quality by adjusting each value. To optimize, you repeatedly adjust the density and print a Calibration card and check the print state until you get the optimum.

**Total Density:** To set all of the density (Color, Black and Overlay) at one time.

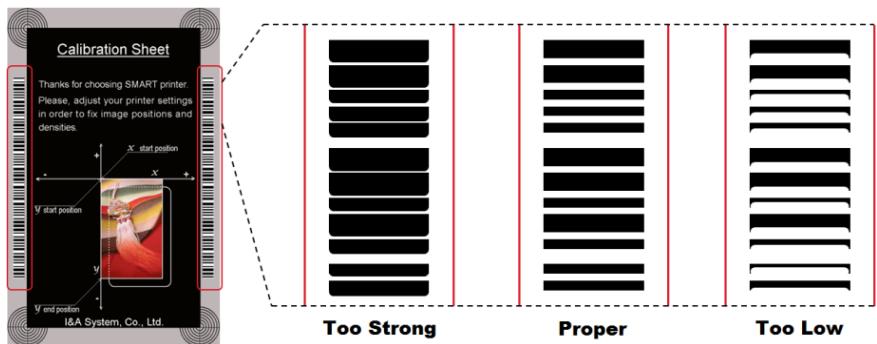
**YMC Density:** To set color density. Please maximize YMC density as you can, which enables to express range of color and vivid images. If it is too strong, green or red marks are appeared. If it is too weak, the print quality will be dull.



**Figure 56 Color density**

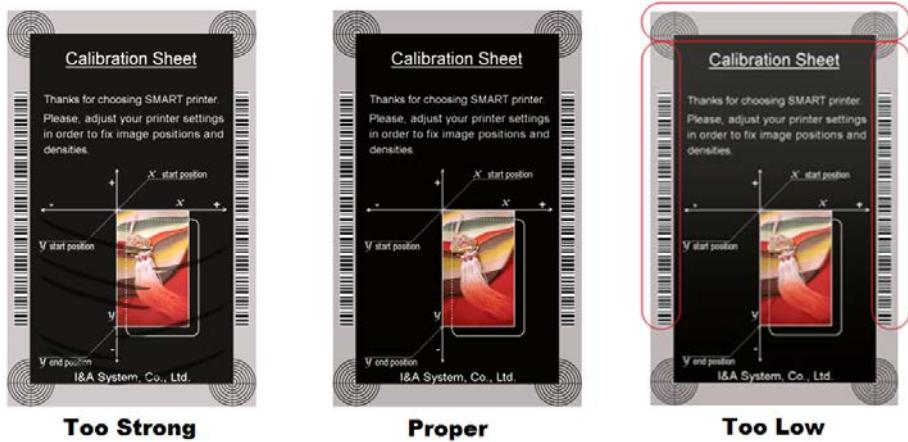
**Black Density:** To set resin black density. In the picture, barcode is printed to express density.

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



**Figure 57 Resin Black density**

**Overlay Density:** To set overlay density. Please set it when overlay is printed on surface regularly. If it is too strong, it is hazy and marks are appeared. If it is too weak, overlay panel is not printed edge areas. You can check it with printed card under the light.



*Figure 58 Overlay density*

⑧ To print calibration card.

⑨ To show advanced Setup.

(It is recommended not to set advanced setup.)

⑩ To load or save values.

**Get Config.:** to get values from current printer

**Set Config. :** to set values to current printer

**Load from File:** to load values from file

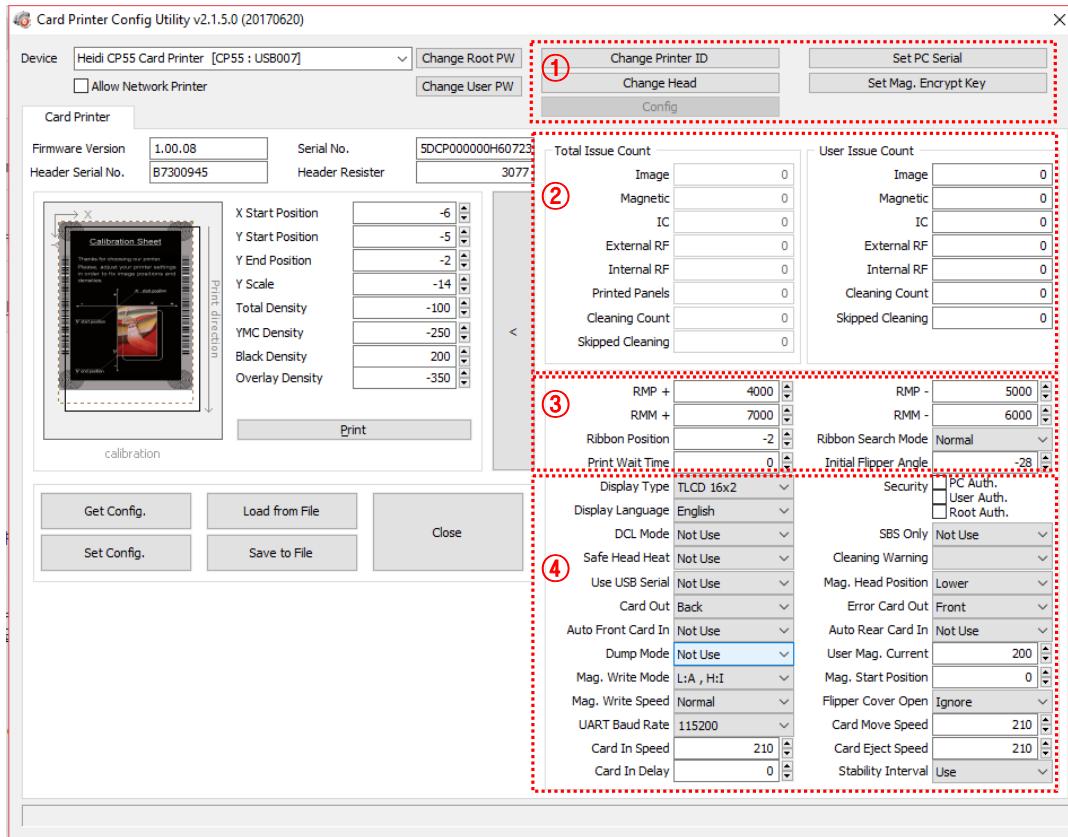
**Save to File :** to save values to file

**Load Default :** to load default. Please adjust values again after load default.

**Close :** to close CardPrinterConfig

### (3) Card Printer Advanced Setup

You can set more values.



**Figure 59 CardPrinterConfig – Card Printer Advanced Setup**

- ① You can set Printer ID, PC serial, Print head and Magnetic encryption key.

**Change Printer ID:** When CP55 is used by SDK, you can set unique ID for CP55 printer regardless of whether it is connected by USB or what IP address is. It is useful to connect and use several printers. Default is “CP55”.

**Set PC Serial:** One of security function. You can use a printer with 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 used PC is saved to CP55 printer.

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

**Set Mag. Encrypt Key:** One of security function. When you use SDK, you can encrypt magnetic stripe encoding data transmitted by USB. You can define and save the encryption key to CP55 using “Set Mag. Encrypt Key”.

- ② To show how many cards are issued with CP55 printer. “Total Issue Count” is the number of issued cards from factory shipment, “User Issue Count” is the number of issued cards from replacing head. When you replace a head, please initialize the number by ticking “Reset User Issue Count”.
- ③ To show ribbon motor management. CP55 recognizes ribbon color automatically and controls motor by ribbon remaining. “RMP+”, “RMP-”, “RMM+”, “RMM-“ are necessary variables to control ribbon motor. Please do not change 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:** Set the angle of flipper when card is out if the ‘Card Out’ is ‘Back’

- ④ Please refer as below for other values.

**Display Type:** Set a type of LCD display module

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

**Security:** There are several ways to set a security function for CP55.

**PC Auth.:** You can use a printer with 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 don’t need to install printer device driver.

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

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

**Cleaning Warning:** Set to show the 'Do cleaning' message periodically

**Use USB Serial:** When CP55 is connected to USB, it transmits the USB serial number to PC. Default is the same number used by all CP55. Please set this option when you use multiple CP55 printers connected to 1 PC via USB. It enables unique serial numbers for each USB.

**Mag. Head Position:** CP55 can install the magnetic encoder on lower side of a card.

**Card Out:** Set the way to eject cards.

**Error Card Out:** Set the way to eject error cards.

**Auto Front Card In:** Set to input a card automatically if the front card-in sensor detects a card. It is used for the KIOSK model.

**Auto Rear Card In:** Set to input a card automatically if the rear card-in sensor detects a card. It is used for the KIOSK model.

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

**User Mag. Current:** The default current value when the user selects to use the defined value when magnetic encoding

**Mag. Write Mode:** You can order the way how to encode magnetic stripe.

"L:A, H:I": encodes 3 tracks at once for LoCo card and encodes at twice by dividing 1,3 and 2 track for HiCo card.

**Magnetic Start Position:** Set the start position of magnetic stripe when you encode.

**Mag. Write Speed:** You can order the speed to encode magnetic stripe.

**Flipper Cover Open:** Set to notify the Flipper cover is opened or not. [Check / Ignore]

**UART Baud Rate:** To set the communication speed (Baud rate) of the external device connected to Printer by serial.

**Card In Speed:** set the speed of inputting a card

**Card Move Speed:** set the speed of moving a card

**Card Eject Speed:** set the speed of ejecting a card

**Card In Delay:** set the delay time to operate the hopper motor.

**Stability Interval:** select stability or faster speed. Default is 'on', stability.

#### (4) Flipper Setup

This 'Flipper' tab is shown when the flipper option is installed.

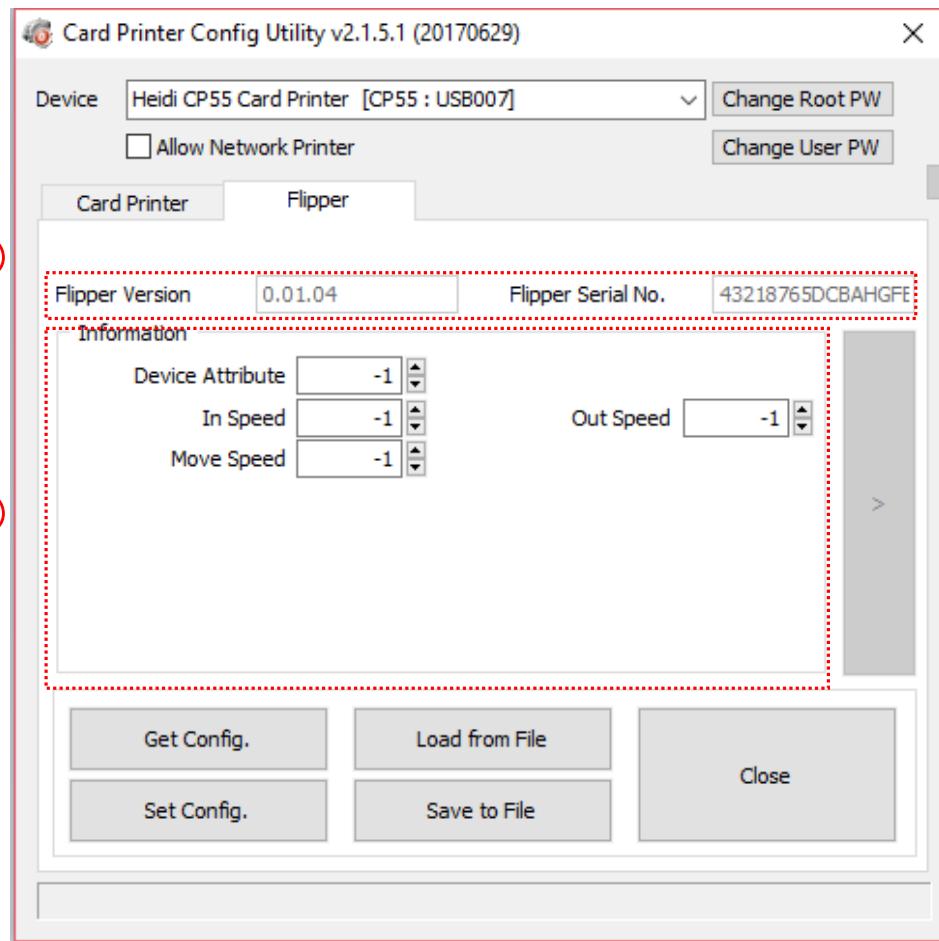


Figure 60 CardPrinterConfig – Flipper Setup

##### ① To show installed flipper

Firmware version and serial number of flipper

##### ② To set configuration of flipper

**Device Attribute:** Basic attribute of flipper

**Card In Speed:** Set the speed of inputting a card into a flipper

**Card Move Speed:** Set the speed of moving a card in the flipper

**Card Eject Speed:** Set the speed of ejecting a card from the flipper

## 4.2. Network configuration

### (1) Connecting network port

The printer which installed with network option has a port for network connection as shown in the left picture.

- ① Network Port
- ② USB port
- ③ Power Supply Connector
- ④ Power Switch



Figure 61 Rear view of CP55 printer 1

Please connect network cable (RJ45) to a printer.

(Network cable is not supplied. Please ask network administrator for more questions.)



Figure 62 Rear view of CP55 printer 2

Please run NetAdmin.exe in the CP55 installation CD to set or change network configuration.

## (2) Network configuration

**NetAdmin is run as the Pic.72 after turning on CP55 network printer.**

- ① Printer Connection Status  
Searches local network, finds and shows available network printer.
- ② Network Module Management  
Searches connected encoder on network module. Reboots, Resets network module. Firmware upgrade available
- ③ Printer Configuration  
Sets detailed system configuration.
- ④ Network Information  
Shows firmware version of network module

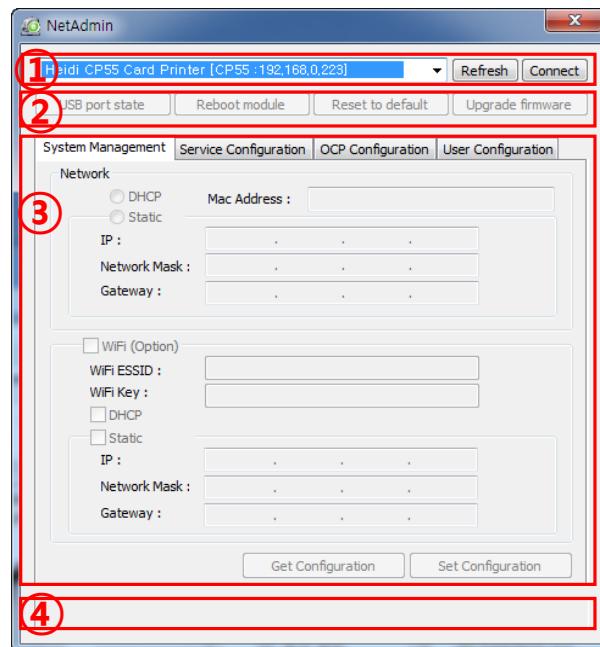


Figure 63 Running the NetAdmin

**When no printer is connected to network, there is no printer shown on the box.**

Please click "Refresh".

If no printer shown, please check as below,

1. Please check the printer is turned on.
2. Please check network cable is connected to network hub and works properly (LED lamp blinking).
3. Please check if there is DHCP server in the local network. When DHCP server is not in your local network, you need to set Static IP.
4. If Static IP is used, please check the IP configuration. If another device uses same IP address, it doesn't work.

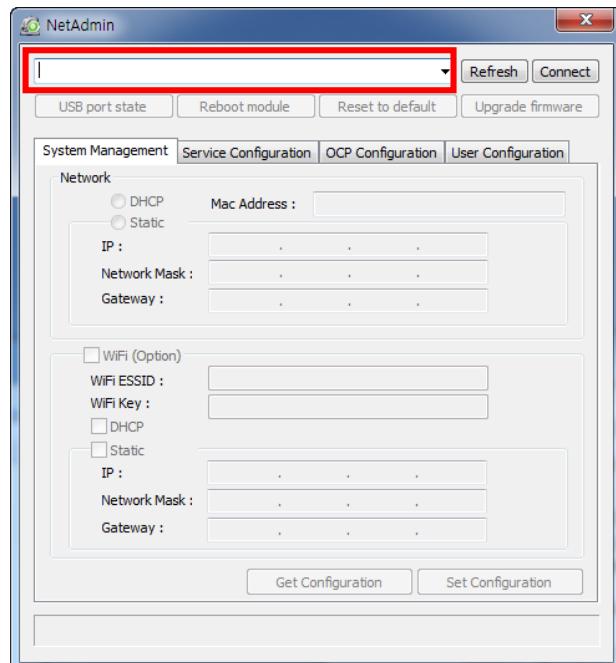


Figure 64 Network printer is not found

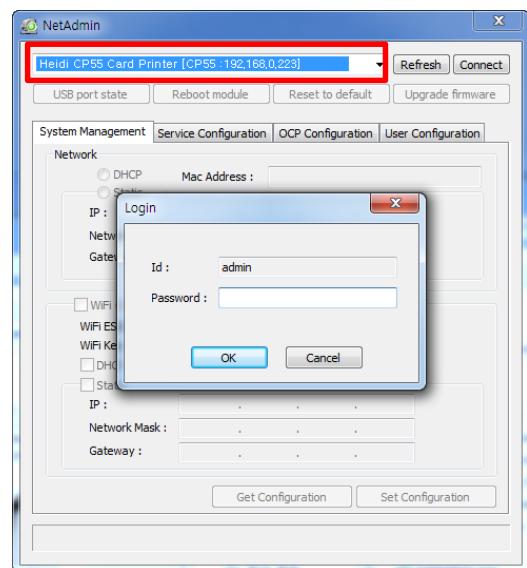
**If you are unable to find printer in local network, please connect printer by USB. You can setup network by USB.**

When you click Refresh, you can find a printer connected by USB as shown in the left picture..

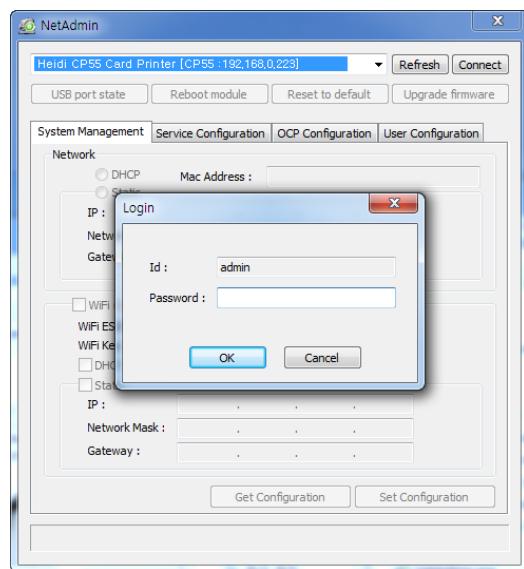
- You don't need to install device driver for network configuration by USB. Please ignore messages related to device installation.
- You can change values of "System Management" only when you connect a printer by USB. Please connect a printer by network to use all of the functions of Netadmin.exe.

**Please select a proper printer and click "connect". Please enter password and click "OK".**

Default password is "**admin**".



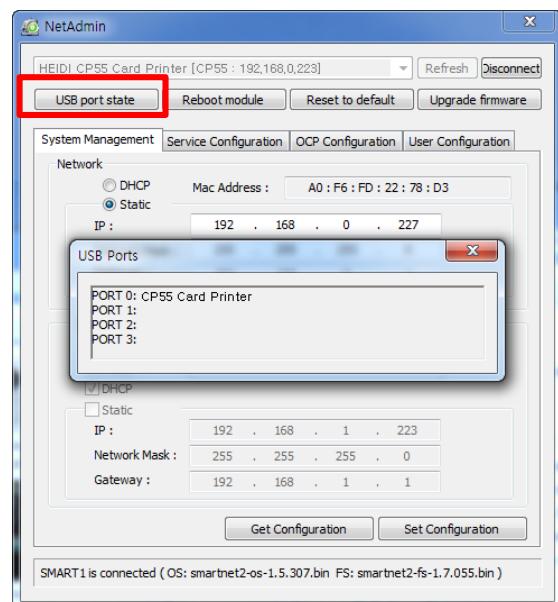
**Figure 65 Connecting to USB port**



**Figure 66 NetAdmin Log-in**

**“USB port state” shows USB device status connected on network module.**

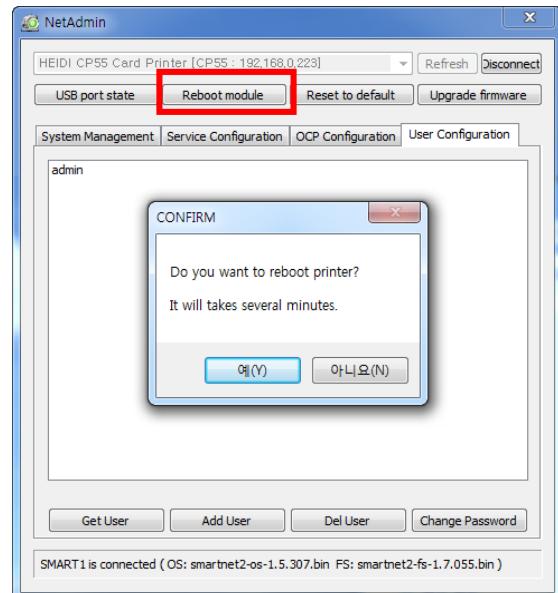
- Network module has 4 USB ports.
- Network module supports PC/SC. When you install the encoders that support PC/SC on network module, you can recognize the status of encoders.



**Figure 67 USB port state**

**“Reboot module” reboots network module.**

- Please click “Yes” when pop-up window comes out for reboot.
- It takes 1 minute to reboot.
- Please click “Refresh” after reboot. When proper printer shown, please connect printer by clicking “Connect”.



**Figure 68 Rebooting the network module**

**“Reset to default” resets to default and reboot network module.**

- Please click “Yes” when pop-up window comes out for reset.
- It takes 1 minute to reboot.
- Please click “Refresh” after reboot. When proper printer shown, please connect printer by clicking “Connect”.

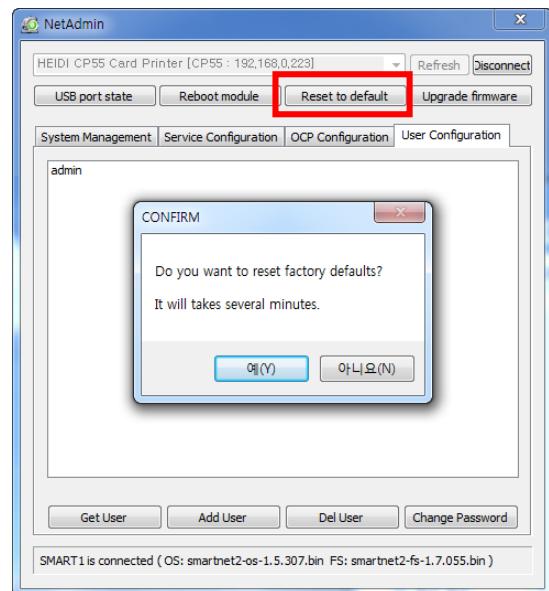


Figure 69 Reset to default

**“Upgrade firmware” enables to upgrade firmware of network module.**

- You can choose a firmware file.

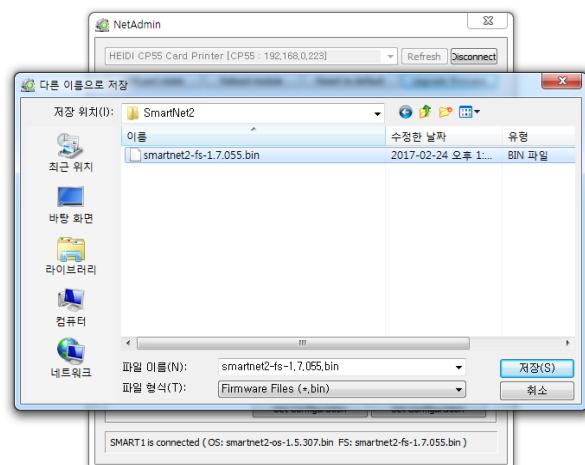
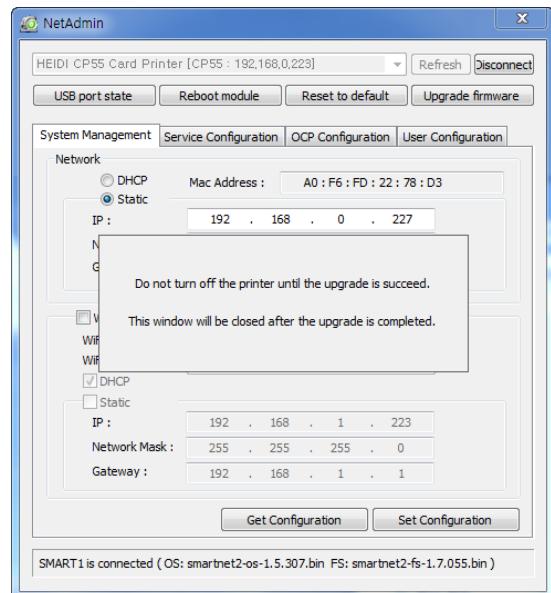


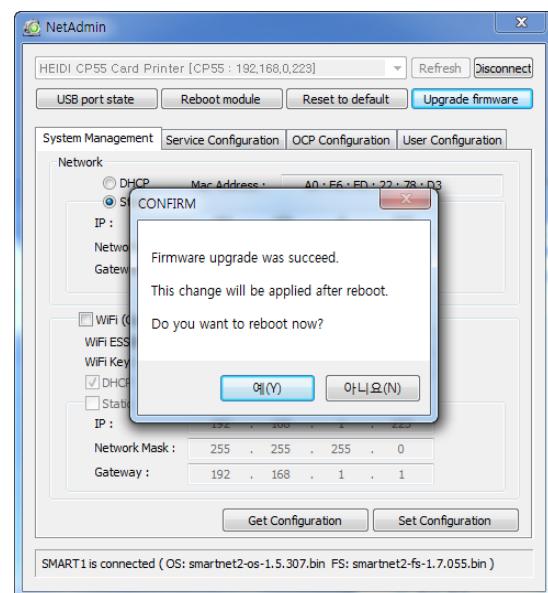
Figure 70 Upgrading the firmware 1

- Warning box will be shown during firmware upgrade for network module.
- It is recommended not to do other work during firmware upgrade for system reliability.
- Please do not turn off a printer until the upgrade is completed.



**Figure 71 Upgrading the firmware 2**

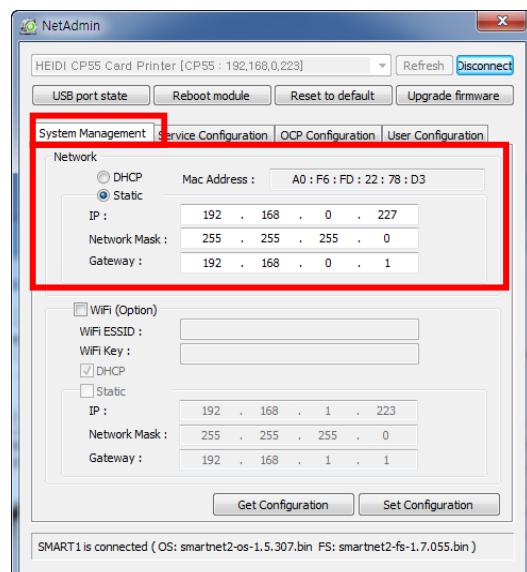
- When firmware upgrade is completed, pop-up comes out for reboot. Please click "Yes".
- It takes 1 minute to reboot.
- Please click "Refresh" after reboot. When proper printer shown, please connect printer by clicking "Connect".



**Figure 72 Upgrading the firmware 3**

**If you setup network automatically, please choose DHCP.**

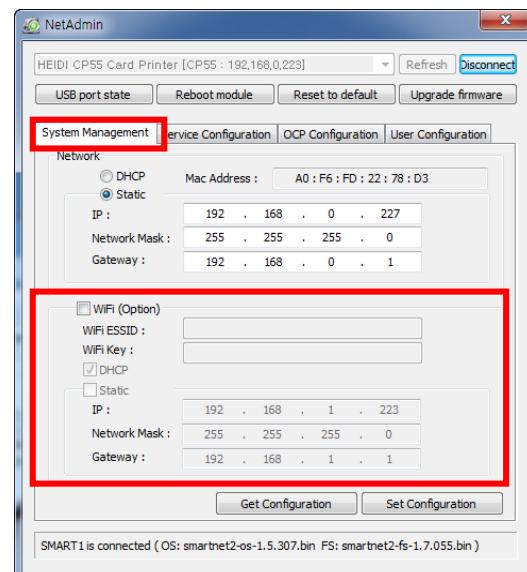
- Please select DHCP or Static.
- “**DHCP**” is default for CP55 printer.
- Please enter values for “IP”, “Network Mask”, and “Gateway”. Click “Set Configuration”.
- Static IP is recommended. DHCP server assigns IP address automatically but this IP address is temporary, so the IP address may be changed. In this case, the network error may occur in connecting to CP55 network printer.
- If you are not aware of static IP, please ask network administrator for Static IP.
- We recommend using Static IP because it is more stable for using CP55 network printer.



**Figure 73 Dynamic IP configuration**

### Wireless Network Configuration

- For wireless network, the WIFI option should be installed in the Network Module
- Check “WiFi (Option)” button to activate it
- Enter the ESSID value in “WiFi ESSID” to access
- Enter the Key value in “WiFi Key”
- Set the IP address as the same way of LAN network
- Click “Set Configuration” to save the configuration value and reboot the printer



**Figure 74 Static IP configuration**

## You can change Service Configuration.

- CP55 network printer provides 3 kinds of service (change “USB Spool”, “Network Spool” and “Network SDK”). You can select and change the service according to the need.
- In “Network SDK”, you can control the printer and print a card well, and the printer supports SSL (Secure Sockets Layer) and User Authentication for security.
- Please use default and ask technician for details.

## You can use Open Card Print function.

- This function is for send commands and print through network card regardless of OS
- Click check box “Use OCP”
- “Use Terminal Emulation” is value for getting echo according to the commands through terminal. For security, it supports SSL and User Authentication.
- Please do not change default value except special case..

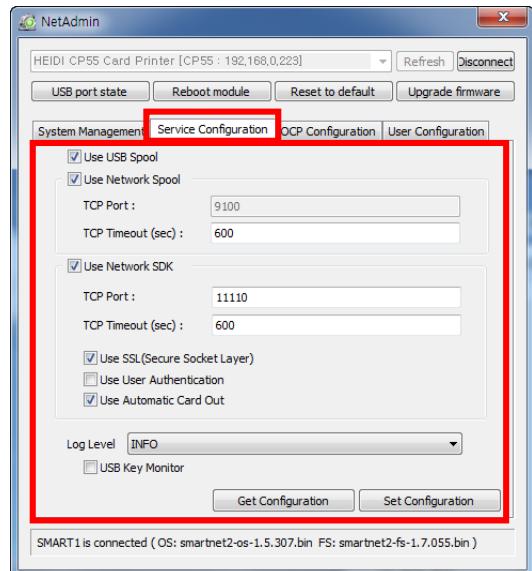


Figure 75 Network service configuration

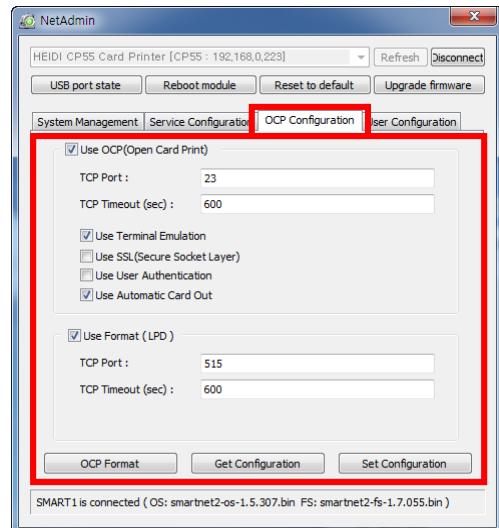


Figure 76 OCP configuration

## You can add, change, delete User and change its password.

- “admin” is administrator and you can’t delete this account. Please don’t forget password for “admin”
- “Get User”: shows available users
- “Add User”: makes new user
- “Del User”: deletes selected user
- “Change Password”: changes password

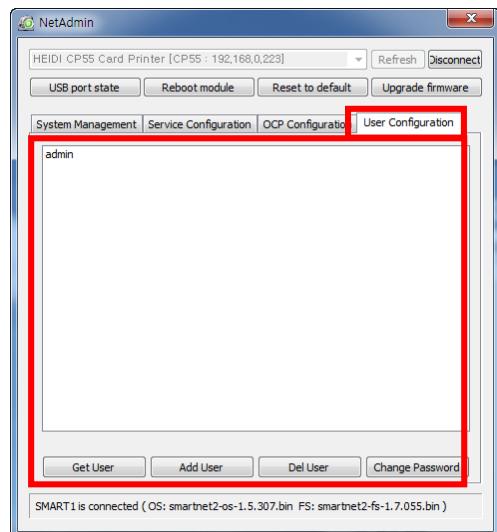


Figure 77 Network user configuration

# 5. Optional device driver installation

In CP55 printer, you can install the optional devices that encode contact smartcard or contactless smartcard. If your purchased CP55 printer has optional devices, you should also install the smart card reader drivers.

## 5.1. Contact smartcard reader

In CP55 printer, you can install the two types of optional devices which are contact smartcard reader and mobile SIM smartcard reader. If you have one or more smartcard reader devices on your printer, you should install the smartcard device driver as in the following, and connect CP55 printer to your PC.

### (1) Run the smartcard driver installer

Insert the smartcard installation CD and find “\Options\Gemalto PC Twin” directory on your CD. Find the right directory which is installed OS version on your PC, and run the installer. You can see the smartcard reader driver installation window as the Figure 51. And click “Next”.



Figure 78 Contact smartcard reader driver installation

## (2) License agreement

The license agreement window is shown. Check at the agreement and click “Next”.

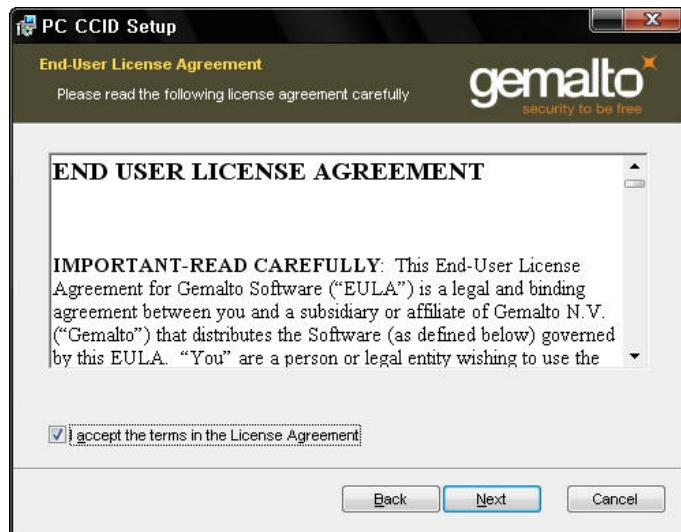


Figure 79 License agreement

## (3) Installation

The installation message is shown as the picture. Click “Install” to install driver.



Figure 80 Installing the contact smartcard reader driver

#### (4) Complete installation

When the installation is completed, the window is shown. Click the “Finish” to complete the installation steps.



*Figure 81 Completing the smartcard reader driver installation*

## 5.2. Contactless smartcard reader

In CP55 printer, you can install the two types of smartcard reader which are internal contactless smartcard reader and external contactless smartcard reader. If you have one or more contactless smartcard reader devices on your printer, you should install the contactless smartcard device driver as in the following, and connect CP55 printer to your PC.

### (1) Connect CP55 printer to PC

When you connect the printer to PC and turn on the printer, you can see the “Found New Hardware Wizard” as the picture, then Check “No, not that time” and Click “Next” to continue.



Figure 82 Found New Hardware Wizard

## (2) Choose the installation method

At the window as the picture, select “Install from a list or specific location” and click “Next”.

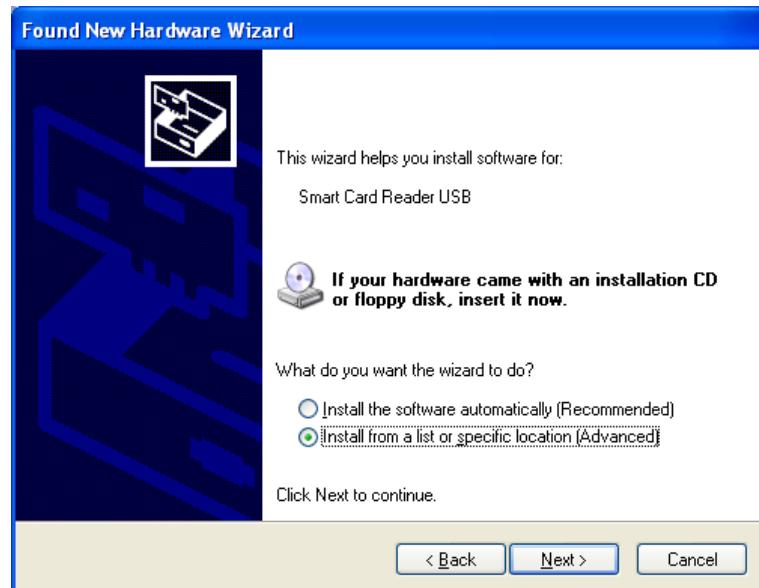


Figure 83 Installation method selection

## (3) Driver location

Insert the smartcard installation CD and find “\Options\ Omnikey 5121” directory on your CD. Find the right directory which is installed OS version on your PC, and select the directory as the picture, and click “Next”.



Figure 84 Driver location

#### (4) Complete installation

When the installation is completed, the window as the Figure 58 is shown, click “Finish” to complete the installation steps.



*Figure 85 Completing the driver installation*

# 6. Troubleshooting

## 6.1. Error Message

CP55 printer shows the error message in the LCD display when it occurs. Click the Left button to retry or the right button to cancel an operation.

The following shows the error message on your CP55 Printer. For checking a status of printer, please use a CardPrinterTest or CardPrinterDiagnostics in the Utilities folder of Install CD.

No	LCD Message	Description and Countermeasures
1	Card In Error	<p>Fail to move a card from the hopper to the printer inside.</p> <ul style="list-style-type: none"><li>- Check the card thickness and adjust the card thickness control lever</li><li>- Check cards are stuck because of static electricity</li><li>- Clean Hopper roller and cleaning roller</li></ul>
2	CardMove Int Err	<p>Fail to move a card in the printer.</p> <ul style="list-style-type: none"><li>- Remove a card if the ribbon is attached</li><li>- Check the rollers and cards, and clean them if they are polluted</li><li>- Check the operating state of the card feeding rollers and sensors</li></ul>
3	CardMove Ext Err	<p>Fail to move a card between printer and other module (flipper)</p> <ul style="list-style-type: none"><li>- Check the rollers and cards, and clean them if they are polluted</li><li>- Check the operating state of the card feeding rollers and sensors</li></ul>
4	Card Out Error	<p>Fail to discharge a card after printing, encoding.</p> <ul style="list-style-type: none"><li>- Remove a card if the ribbon is attached</li><li>- Check the rollers and cards, and clean them if they are polluted</li><li>- Check the operating state of the card feeding rollers and sensors</li></ul>
5	TPH UpDown Error	<p>The Head Up/Down Motor or Sensor don't work correctly in printing or booting up</p> <ul style="list-style-type: none"><li>- Check the operating state of the Head Up/Down Motor and Sensor.</li></ul>
6	IC UpDown Error	<p>The IC Head Up/Down Motor or Sensor don't work correctly in printing, encoding or booting up.</p> <ul style="list-style-type: none"><li>- Check the state of the Cable between a module and a main board</li></ul>

No	LCD Message	Description and Countermeasures
7	Ribbon Seek Err	<p>The printer can't search the ribbon panel in printing or booting up</p> <ul style="list-style-type: none"> <li>- Check the operating state of the Ribbon Motor</li> <li>- Check the operating state of the ribbon encoder sensor and gears</li> <li>- Check and clean the Color In/Out Sensor</li> <li>- Check the operating state of the color in/out Sensor</li> </ul>
8	Ribbon Move Err	<p>The printer can't wind the ribbon in printing or booting up.</p> <ul style="list-style-type: none"> <li>- Check the operating state of the Ribbon Motor</li> <li>- Check the operating state of the ribbon encoder sensor and gears</li> </ul>
9	MAG R/W Error	<p>Fail to read or write the magnetic stripe.</p> <ul style="list-style-type: none"> <li>- Check the surface and direction of magnetic card</li> <li>- Check the coercivity of magnetic card and encoding configuration</li> <li>- Check the rollers, encoder and cards, and clean them if they are polluted</li> </ul>
10	MAG T1 Error	<p>Fail to read a track 1 of the magnetic stripe.</p> <ul style="list-style-type: none"> <li>- Check the surface and direction of magnetic card</li> <li>- Check the coercivity of magnetic card and encoding configuration</li> <li>- Check the rollers, encoder and cards, and clean them if they are polluted</li> </ul>
11	MAG T2 Error	<p>Fail to read a track 2 of the magnetic stripe.</p> <ul style="list-style-type: none"> <li>- Check the surface and direction of magnetic card</li> <li>- Check the coercivity of magnetic card and encoding configuration</li> <li>- Check the rollers, encoder and cards, and clean them if they are polluted</li> </ul>
12	MAG T3 Error	<p>Fail to read a track 3 of the magnetic stripe.</p> <ul style="list-style-type: none"> <li>- Check the surface and direction of magnetic card</li> <li>- Check the coercivity of magnetic card and encoding configuration</li> <li>- Check the rollers, encoder and cards, and clean them if they are polluted</li> </ul>
13	Printing Error	<p>Error occurs while printing</p> <ul style="list-style-type: none"> <li>- Check a card is jammed</li> <li>- Check usage of a genuine ribbon and cards</li> <li>- Check the rollers and cards, and clean them if they are polluted</li> </ul>

No	LCD Message	Description and Countermeasures
14	Init Error	Error occurs while initializing -. Check the status of installation of ribbon
15	DeviceCon Error	Fail to communicate between a printer and a flipper -. Check a cable between a printer and a flipper
16	N/A	
17	Flipper Error	Error occurs while operating a flipper -. Remove a card after opening a flipper cover -. Check the card size
18	Ribbon Zero	All ribbons are used -. Install the new ribbon after purchasing it in the place of purchase
19	RibbonNotFound	Ribbon is not installed or not searched -. Install a ribbon if not -. Check usage of a genuine ribbon
20	TPH Not Found	Thermal Print Head is not installed or not recognized -. Check the print head installation -. Contact the place of purchase
21	TPH Over Heat	Thermal Print Head is overheated -. Lower the temperature when the temperature of circumstance is too high -. Take a stop for 10 minutes and print again. -. Contact the place of purchase if this message is shown regularly
22	Invalid Data	Error occurs when the abnormal printing data is transmitted. -. Replace the USB cable USB -. Change the USB port in the PC -. Reinstall the printer driver
No	LCD Message	Description and Countermeasures
23	Wrong Password	The password is not correct -. Input the correct password -. Contact the place of purchase if you forget the password

24	SetCommandFail	<p>Failed to execute a command of the printer</p> <ul style="list-style-type: none"> <li>- Replace the USB cable USB</li> <li>- Change the USB port in the PC</li> <li>- Turn off/on the printer</li> </ul>
25	Spool Full	<p>The printing data is full in the spooler</p> <ul style="list-style-type: none"> <li>- This message disappear after printing all data to send</li> <li>- Turn off/on the printer if the spool data is full without printing</li> </ul>

## 6.2. Cleaning the printer

To maintain the best condition of CP55 printer, you must clean the printer periodically. If you use the exclusive cleaning card as the picture, you can clean the printer easily. For purchase the exclusive cleaning card, ask to CP55 printer provider.



Figure 86 Exclusive cleaning card for CP55 printer

If the exclusive cleaning card is ready, click the “Clean Printer” in the service tab of CP55 printer driver. After click, Clean Printer program to clean the printer is run.

Or, You can set the Cleaning Mode with LCD buttons by pushing both buttons for 5 seconds.

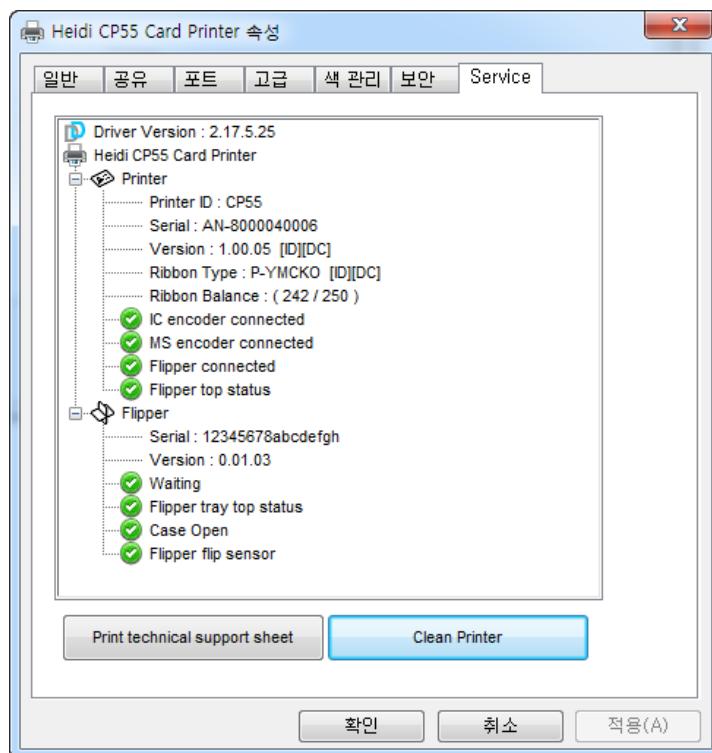


Figure 87 Printer cleaning start

**Step 1.** Connect the CP55 printer to PC and turn it on, and prepare the exclusive cleaning card.



Figure 88 Printer cleaning Step 1

**Step 2.** Open the hopper and top cover and remove the card and ribbon cartridge.

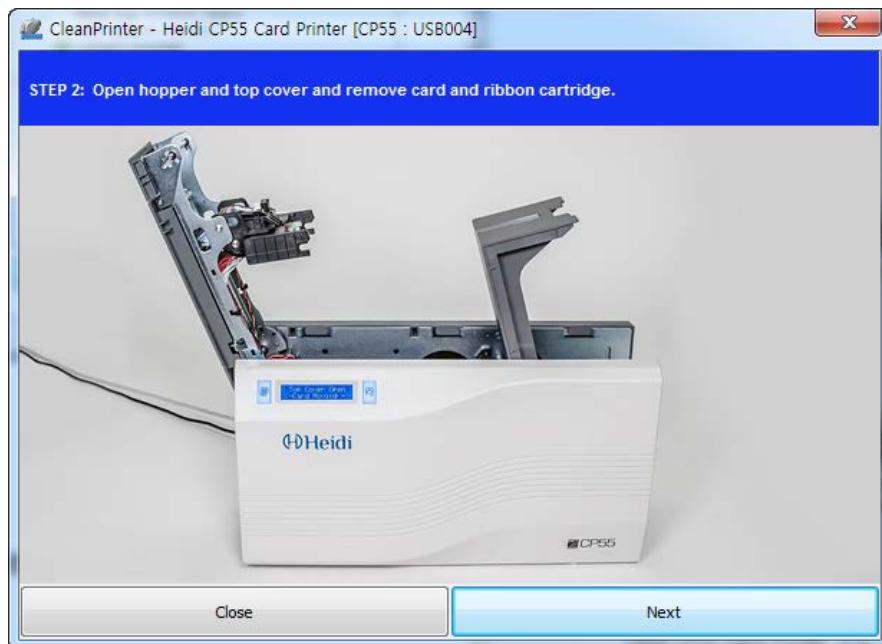
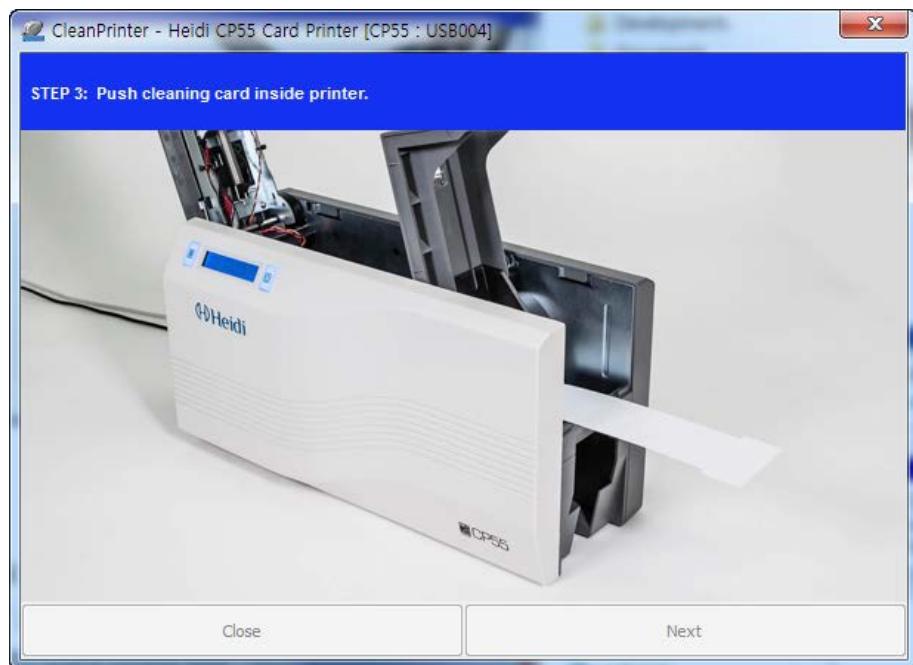


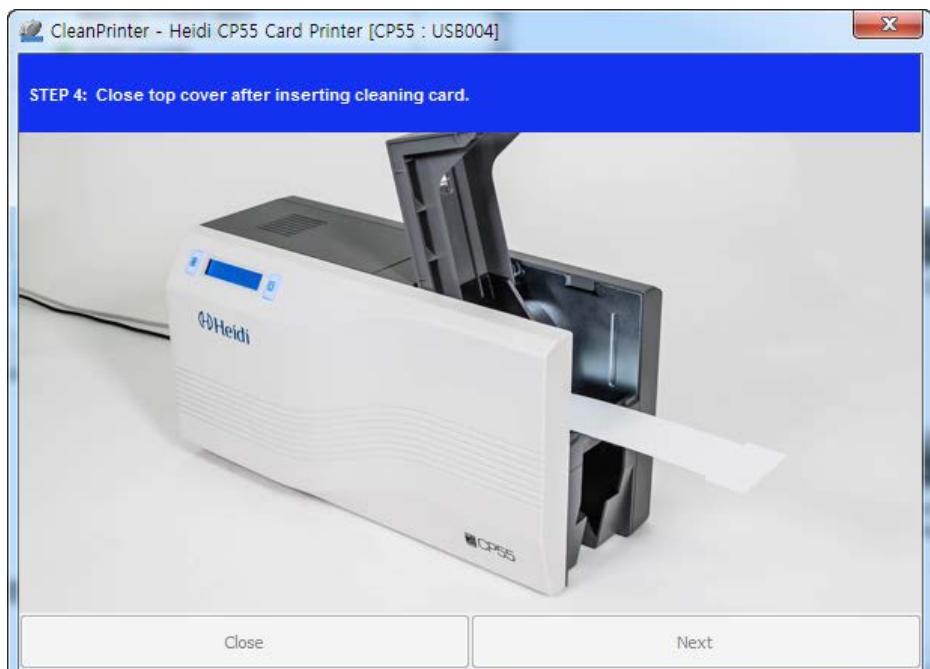
Figure 89 Printer cleaning Step 2

**Step 3.** Insert the exclusive cleaning card into the printer through input hopper. When the exclusive cleaning card is inserted to the cleaning roller, it will be move automatically. It is normal that the exclusive cleaning card is inserted to the ends and rollers are moving to clean.



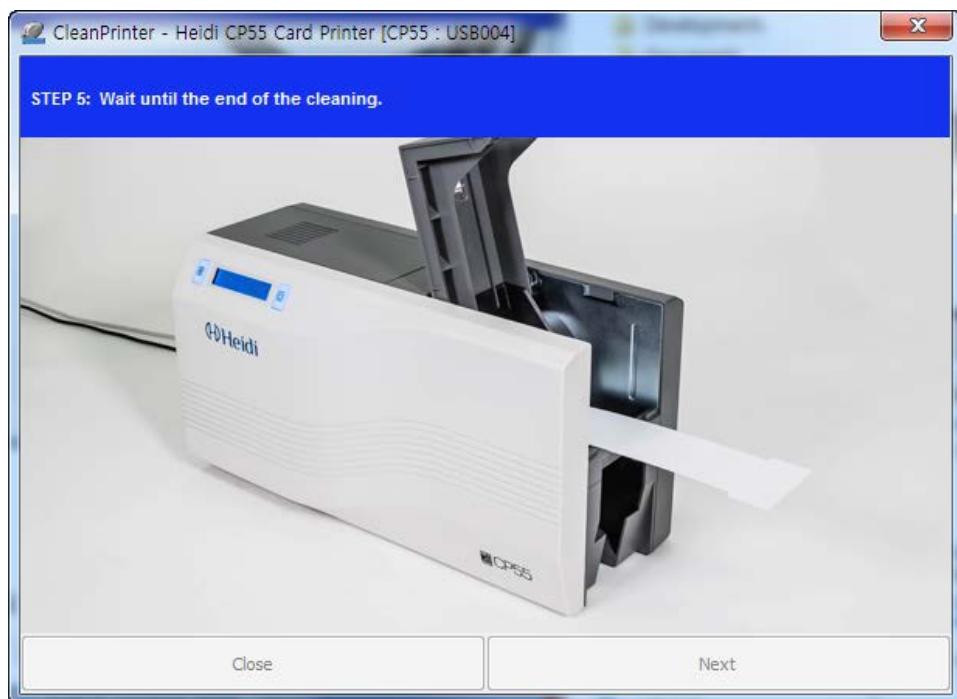
*Figure 90 Printer cleaning Step 3*

**Step 4.** Close the top cover to clean the Thermal Print Head and the printing roller. When the top cover is closed, cleaning card will be moving back and forth to clean.



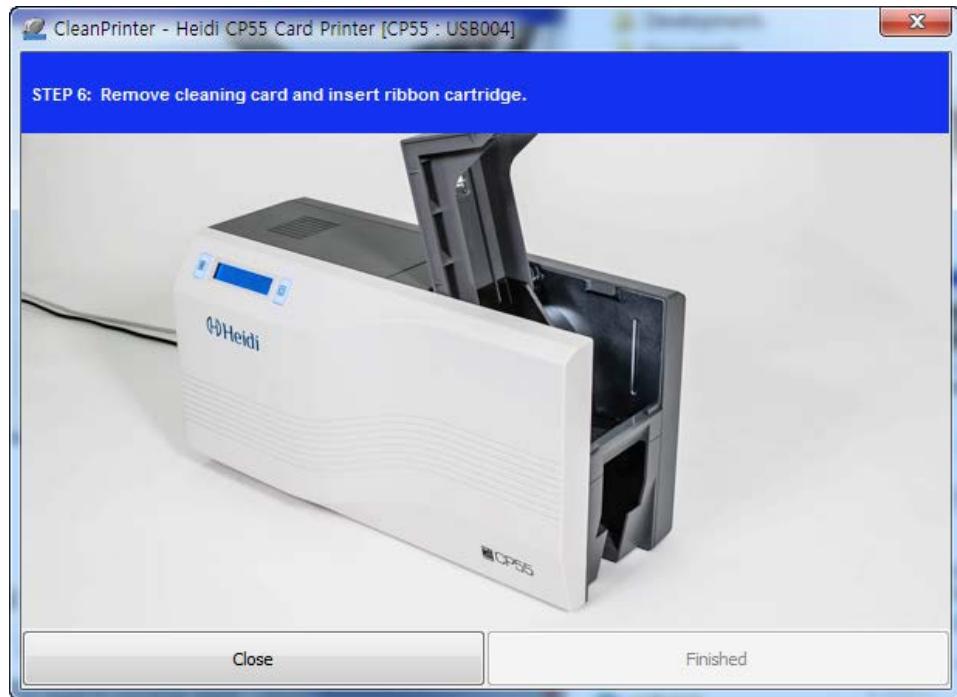
*Figure 91 Printer cleaning Step 4*

**Step 5.** Wait until the cleaning is completed. When the cleaning is completed, the exclusive cleaning card will be ejected automatically as the picture.



*Figure 92 Printer cleaning Step 5*

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



*Figure 93 Printer cleaning Step 6*

## 6.3. TPH (Thermal Print Head) replacement

- Check the serial number and the resistance of new Thermal Print Head as the Figure.

TPH type: A = KEE, B = KPE

Serial No.: see the red box.

TPH resistance: see the green box.

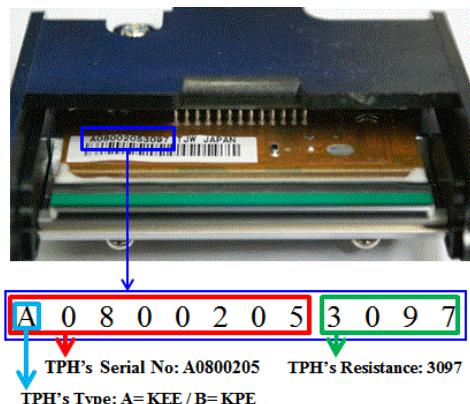


Figure 94 Thermal Print Head

- Set up the new TPH's configuration using CardPrinterSetup program.

Step1: Run 'Card Printer Setup' in Utilities of the installation CD and click expansion button.

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

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

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

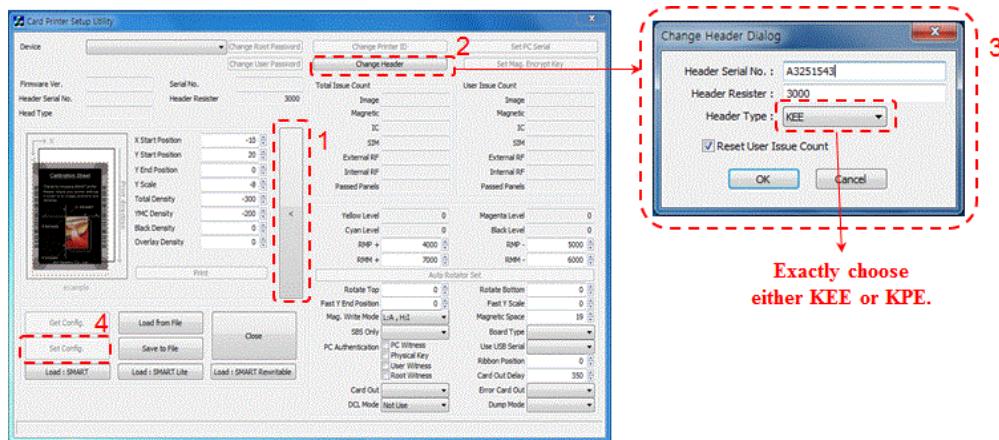


Figure 95 Print head setup

### 3. Replacing the new TPH

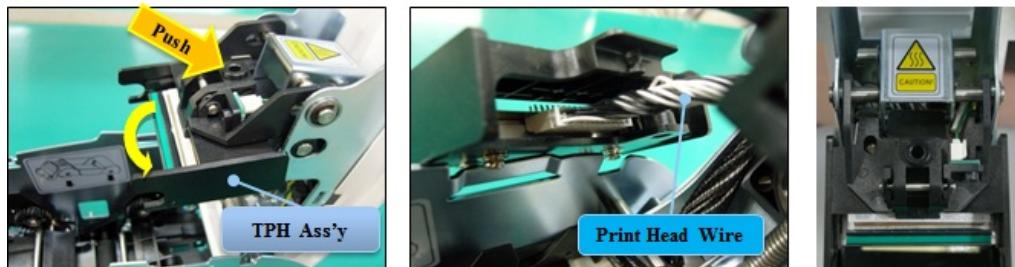
Step1: Remove the old TPH from the top cover.

- (1) Turn off the printer and open the top cover.
- (2) Hold the TPH and press the locked hook, then the TPH is disconnected..
- (3) Disconnect the TPH from print head wire carefully.

**(Caution: TPH is possible to HOT.)**

Step2: Installing the new TPH

- (1) Connect new TPH to the print head wire.
- (2). Put the new TPH on the Shift and pull it up until be locked..



*Figure 96 Print head replacement*

### 4. Setup the print position and the color density.

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

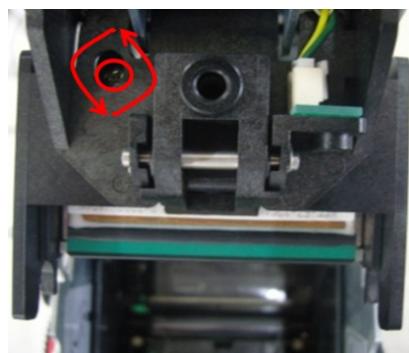
### 5. Calibration of Print Head Angle

To get the best print quality, the TPH should be located vertically with card surface.

If print quality has the problem, it could be caused by print head angle.

Through Adjusting print head angle by screw (red mark in the right picture), you could make good quality of print.

(Use the appropriate screw driver to adjust, and turn the screw by 90 degrees at a time.)



*Figure 97 Print head angle*

## 6.4. Card movement

### 6.4.1. Cards can't enter into the printer from input hopper.

- **Non-standard cards or bad cards.**  
Change the cards. You can use only ISO CR-80 card (54mm x 86mm).
- **Card thickness control lever is set improperly.**  
Regulate the card thickness control lever to fit the current card thickness.
- **Bad card array.**  
Array the cards again and put them on input hopper as section 2.2 in this manual.
- **Cards have static and moisture.**  
Remove the moisture or static.

### 6.4.2. 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 CP55 printer using front LED buttons. If this problem occurred frequently, check the below things.

- **Non-standard cards or bad cards.**  
Change the cards. You can use only ISO CR-80 card (54mm x 86mm).
- **The transfer roller or the printing roller is contaminated with the dust and dirt**  
Remove the dust and dirt with the cleaning kit as section 6.1
- **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.

### 6.4.3. An Error occurs while the card is being transferred.

First of all, check the Error message at LCD display.

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

If this problem occurs frequently, check the followings.

- **Non-standard cards or bad cards.**  
Change the cards. You can use only ISO CR-80 card (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 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.

## 6.5. Printing quality

### 6.5.1. Not printed or wrong colors printed spot.

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

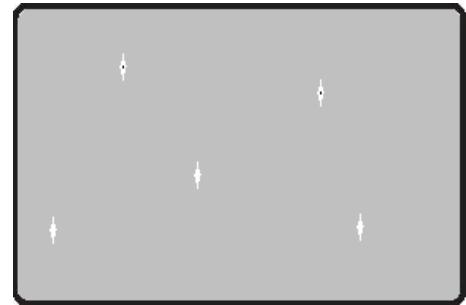


Figure 98 Printing quality trouble 1

### 6.5.2. 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 the 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 99 Printing quality trouble 2

### 6.5.3. Unclear or not 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 the dust and dirt.**  
Clean the printer head with cleaning kit.

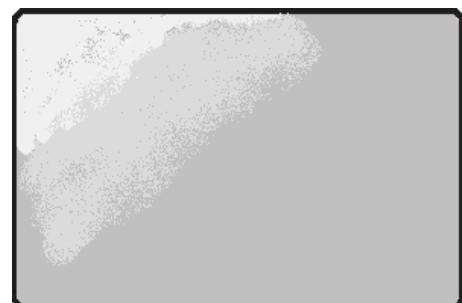


Figure 100 Printing quality trouble 3

### 6.5.4. Not aligned color print.

- **Non-standard cards or bad cards.**  
Change the cards. You can use only ISO CR-80 card (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 section 5.2.
- **Worn-out printer.**  
Please contact the local supplier.

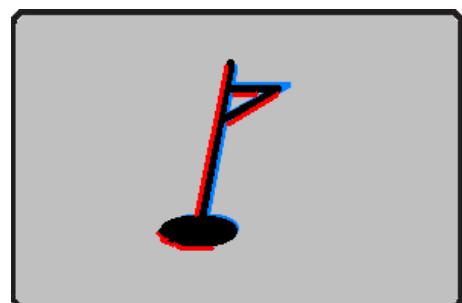


Figure 101 Printing quality trouble 4

### 6.5.5. Unplanned color print.

- **Non-standard cards or bad cards.**  
Change the cards. You can use only ISO CR-80 card (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 section 5.2.
- **Worn-out printer.**  
Please contact the local supplier.



Figure 102 Printing quality trouble 5

## 6.6. Magnetic stripe encoding

### 6.6.1. Magnetic encoding error.

First of all, Please press left LED button to retry.

- **The magnetic head is contaminated with the dust and dirt.**

Clean the magnetic head with the cleaning kit.

- **The magnetic encoding data is not transmitted or the wrong data is transmitted.**

Check the setting of the program and the driver and the magnetic encoding data you transmitted.

- **The card is not magnetic card, or inserting direction is wrong.**

Change the card or the direction.

- **Bad magnetic stripes on the card.**

Change the card.

## 6.7. General operation

### 6.7.1. 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 followings if this kind of problem occur frequently.

- **Non-standard cards or bad cards.**

Change the cards. You can use only ISO CR-80 card (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.

### 6.7.2. LCD display “Ribbon Not Found”

Press the left LED button to retry. If it occurs frequently, check the followings.

- **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.

### **6.7.3. Printer doesn't 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 with 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 not good, make the USB cable connection again.
- **Bad USB cable.**  
Change the USB cable.
- **The printing is operated with another printer driver.**  
Select the correct CP55 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 in 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.

# 7. Specification

Model		CP55-S	CP55-D
Printing	Print Type	Direct to card dye-sublimation/resin thermal transfer	
	Print Area	Edge to Edge	
	Resolution	300dpi	
	Dual Side Printing	Option (with Flipper)	Yes
Card	Card Feeding	Automatic	
	Card Size	ISO CR80	
	Card Thickness	0.38mm (15mil), 1.0mm (40mil)	
	Card Type	PVC, Any cards with dye-receiving layer(PET, Composite PVC, PC)	
Printing Speed	Monochrome	4.5 sec./card (800 cards/hour)	
	YMCKO	21 sec./card (170 cards/hour)	
	YMCKOK	—	27 sec./card (130 cards/hour)
Capacity	Input Hopper	100 Cards / 200 Cards with cover open	
	Output Hopper	Front : 40 Cards / Rear : 100 Cards (Optional Rear-side Stacker)	
System	Memory	64MB RAM	
	Display	2 Line LCD	
	Control Panel	2 LED Buttons	
	Supported Platforms	MS Windows 7/ 8/ 10, Mac OS, Linux	
	Communication	USB, Ethernet (Option)	
	Power Supply	DC 24V, 2A	
	Power Consumption	48	48
	Temp. / Humidity	15~35°C / 35~70%	
Dimensions	Millimeter (WxLxH)	166 x 380 x 208	166 x 486 x 208
	Inch (WxLxH)	6.5 x 15.0 x 8.2	6.5 x 19.1 x 8.2
Weight	Kg / Lbs	5.1 / 11.2	6.0 / 13.2
Encoding Options	Magnetic	ISO 7811 (Track I, II, III Read/ Write, HiCo/ LoCo)	
	Contact	ISO 7816 (ID-1)	
	Contactless	MIFARE, ISO 14443 (Type A/ B), DESFIRE, iCLASS	
Certifications		CB, CE, FCC	

*Specifications and availability may change without notice.*

- **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, the genuine ribbon of IDP should be used to print cards by using SMART printer. SMART printer can recognize the genuine ribbon by reading the encoded information on the RFID Tag of the ribbons. To support user's various requirements for printing cards appropriately, many kinds of ribbons should be provided and SMART printer should distinguish the type of installed ribbon. To distinguish the installed ribbon type correctly, SMART printer reads the encoded information on the RFID Tag of the ribbons. According to the installed ribbon type and the ribbon supplier, the printer driver of SMART 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.**

WARNING & SAFETY INFORMATION