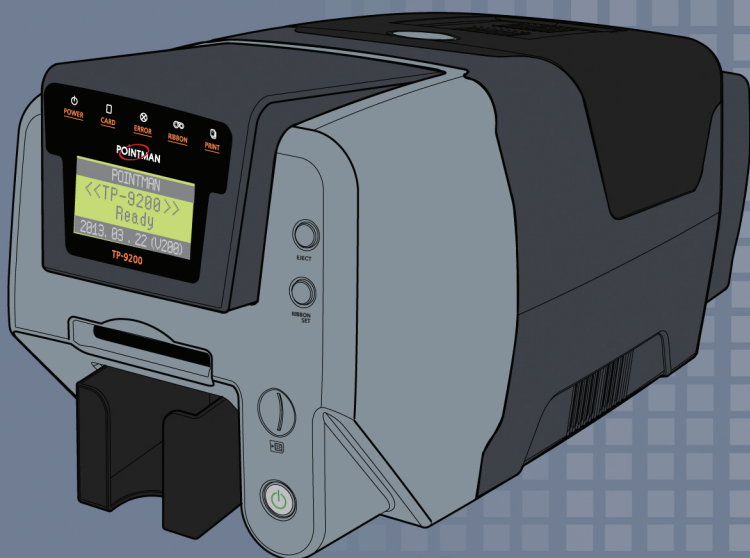




# Card Printer TP-9000 / TP-9200

---

## User Guide



Rev. 2.0

## Contents

Models	Features
TP-9200	<b>Auto Feed Card Printer</b>
TP-9000	<b>Manual Feed Card Printer</b>

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## CAUTION

User should read caution information and keep in mind before use. Different icons remind important information as to safety. **T.I.T. Eng Co., Ltd** is not responsible for physical harm to body or physical damage to the product occurred by user's careless use.

### **DANGER**

#### **DANGER**

*Warns user of risk of losing life or being seriously injured.*



#### **WARNING**

*Warns user of risk of being seriously or slightly injured, or damage to product.*



#### **CAUTION**

*Warns user of slight damage to body.*



#### **NOTE**

*Indicates information that supplements detailed information.*

**The information in this user manual is subject to change without notice.**

**DANGER****DANGER**

*Warns user of risk of losing life or being seriously injured.*

**POWER**

- Do not use damaged power cord, plug or socket.
- Do not pull plug with power cord.
- Do not touch power plug with wet bare hand.
- Do not bend power cord or put heavy things on the power cord.
- Unplug during thunder and lightning or storage

**INSTALLATION**

- Do not place the printer in wet, dirty place.
- Do not put lightings on the printer. Put the printer away from heat source.
- Unplug while moving the printer.
- Put the printer away from flammable source.

**CLEANING**

- Keep the plug dry and clean
- Unplug the printer before cleaning. Do not use water or chemical cleanser.

**MISCELLANEOUS**

- Take care not to spill any liquid on the printer
- In case of abnormal situation in the printer, unplug the printer immediately and contact your dealer.
- Make sure that you use the adequate power adaptor.



**CAUTION**

*Warns user of slight damage to body.*

**INSTALLATION**

- Do not put the printer on unstable place.
- Avoid direct sunlight.

**MISCELLANEOUS**

- Do not disassemble cover or protection parts.
- When you put hand inside the printer, do not operate it.
- Make sure that you perform cleaning and maintaining according to the instructions.
- Do not disassemble, repair, modify.
- Do not put heavy things on the printer.

**CLEANING**

- Do not disassemble cover or protective parts.
- Do not operate printer with your hand inside.
- Make sure that you perform cleaning and maintenance according to the instructions





# 1 Getting Started

## 1.1 Introduction

Thank you for choosing the Pointman TP-9200 and TP-9000 for your valuable card printer. Before you set up the printer, please read this user manual for your secure and enjoyable use of Pointman card printer.

This card printer enables user to create cards easily and shortly in accordance with the card specifications you wish to get.

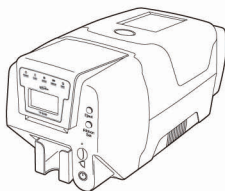
You can get high quality color image with the card printer of dye sublimation printing. In order to meet customers' requirements, it provides options such as magnetic stripe, IC(Contact), RF(Contactless) encoding, automatic duplex as well as bar code, diagram, picture printing.

It is useful for creating bank cards, membership cards, loyalty cards and identification cards on PVC card.

## 1.2 Contents in Package



**TP-9000**



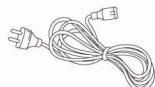
**TP-9200**



**BLUE  
CLEANING ROLLER**



**POWER ADAPTOR**



**POWER CABLE**



**USB  
PRINTER  
CABLE**



**DRIVERS,  
SOFTWARE AND  
DOCUMENTATION CD**



**STACKER  
(TP-9200 only)**

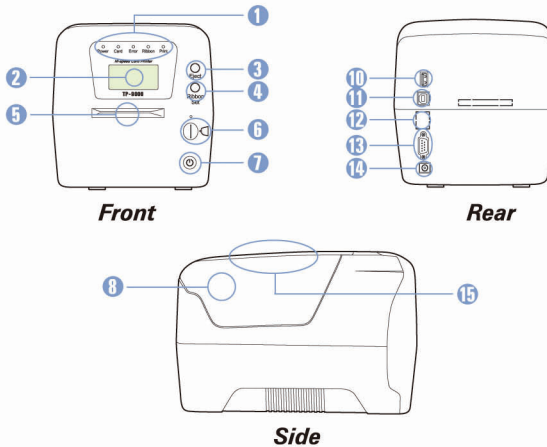


**USER MANUAL**

***Please make sure that printer and all the accessories are in good order.  
If any items are missing, please contact your dealer.***

## 1.3 Printer Features

### ***TP-9000 (Manual Feeding, Single-side Printing)***

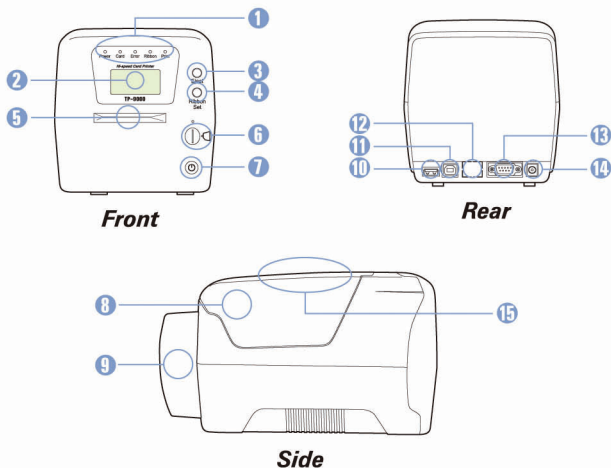


#### ***Features Description***

<b><i>No</i></b>	<b><i>Name</i></b>	<b><i>Description</i></b>
1	LED Display	LED shows the status of printer
2	LCD Display	LCD panel displays the status of printer
3	Card Eject Button	Button for card eject from printer inside
4	Ribbon Set Button	Button for replacing or repositioning ribbon
5	Single Feed Slot	One by one manual feed and Cleaning card slot
6	Mobile Chip Slot	Mobile chip socket (Optional)
7	Power Button	Power on and off
8	Printer Lid	Open the lid to load a cleaning roller and a ribbon
9	Flipper	Automatic Dual Side Printing (Optional)
10	USB Socket	Used for memory stick HUB
11	USB Port	Used for connecting USB cable between a PC and Card Printer
12	Ethernet Port	Used for connecting Network cable between a PC and Card Printer
13	RS232C Port	Used for connecting RS232C cable between a PC and Card Printer
14	Power Socket	Used for supplying power
15	External RF	External RF Card Read/Write Station (Optional)

***Even though we have three different models of TP series, since there is no big difference in operating them, user manual is designed for TP-9200 Dual Sided as main reference.***

TP-9000 (Manual Feeding, Dual-side Printing)

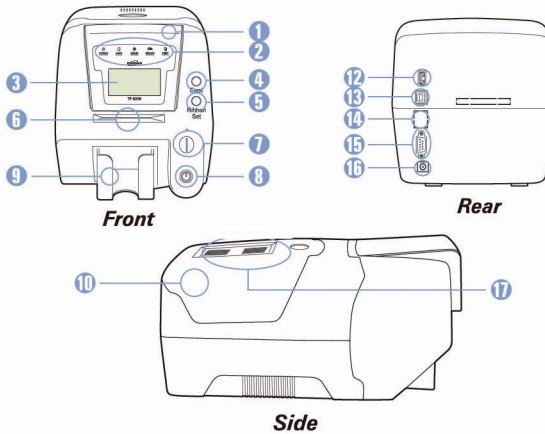


Features Description

No	Name	Description
1	LED Display	LED shows the status of printer
2	LCD Display	LCD panel displays the status of printer
3	Card Eject Button	Button for card eject from printer inside
4	Ribbon Set Button	Button for replacing or repositioning ribbon
5	Single Feed Slot	One by one manual feed and Cleaning card slot
6	Mobile Chip Slot	Mobile chip socket (Optional)
7	Power Button	Power on and off
8	Printer Lid	Open the lid to load a cleaning roller and a ribbon
9	Flipper	Automatic Dual Side Printing (Optional)
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11	USB Port	Used for connecting USB cable between a PC and Card Printer
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13	RS232C Port	Used for connecting RS232C cable between a PC and Card Printer
14	Power Socket	Used for supplying power
15	External RF	External RF Card Read/Write Station (Optional)

Even though we have three different models of TP series, since there is no big difference in operating them, user manual is designed for TP-9200 Dual Sided as main reference.

## TP-9200 (Automatic Feeding, Single-side Printing)



### Features Description

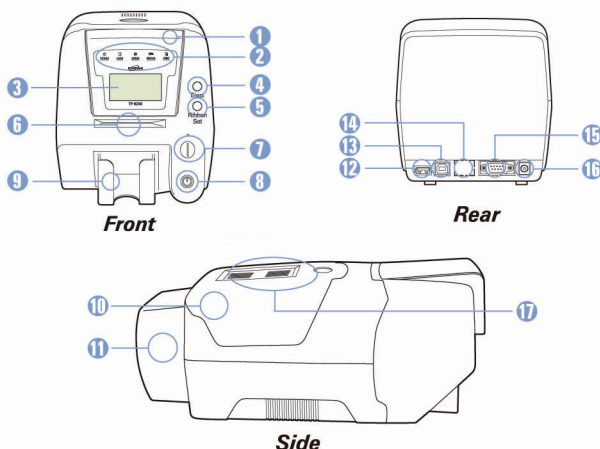
No	Features	Description
1	Input Hopper	Loads card to print up to 100 cards
2	LED Display	LED shows the status of printer
3	LCD Display	LCD panel displays the status of printer
4	Card Eject Button	Button for card eject from printer inside
5	Ribbon Set Button	Button for replacing or repositioning ribbon
6	Single Feed Slot	One by one manual feed and Cleaning card slot
7	Mobile Chip Slot	Mobile chip socket (Optional)
8	Power Button	Power on and off
9	Output Stacker	Printed cards stacker up to 75 cards
10	Printer Lid	Open the lid to load a cleaning roller and a ribbon
11	Flipper	Automatic Dual Side Printing (Optional)
12	USB Socket	Used for memory stick HUB
13	USB Port	Used for connecting USB cable between a PC and Card Printer
14	Ethernet Port	Used for connecting Network cable between a PC and Card Printer
15	RS232C Port	Used for connecting RS232C cable between a PC and Card Printer
16	Power Socket	Used for supplying power
17	External RF	External RF Card Read/Write Station (Optional)

**Even though we have three different models of TP series, since there is no big difference in operating them, user manual is designed for TP-9200Dual Sided as main reference.**





## TP-9200 (Automatic Feeding, Dual-side Printing)

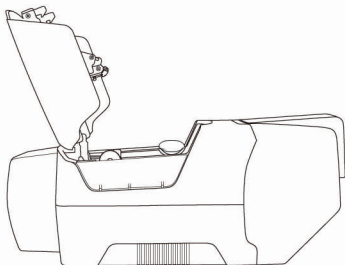


### Features Description

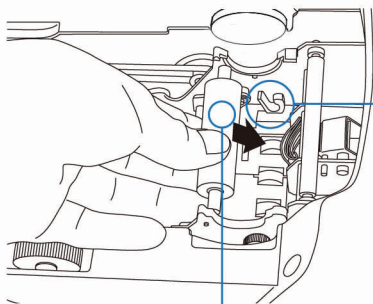
No	Features	Description
1	Input Hopper	Loads card to print up to 100 cards
2	LED Display	LED shows the status of printer
3	LCD Display	LCD panel displays the status of printer
4	Card Eject Button	Button for card eject from printer inside
5	Ribbon Set Button	Button for replacing or repositioning ribbon
6	Single Feed Slot	One by one manual feed and Cleaning card slot
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15	RS232C Port	Used for connecting RS232C cable between a PC and Card Printer
16	Power Socket	Used for supplying power
17	External RF	External RF Card Read/Write Station (Optional)

**Even though we have three different models of TP series, since there is no big difference in operating them, user manual is designed for TP-9200Dual Sided as main reference.**

## 1.4 Loading Cleaning Roller

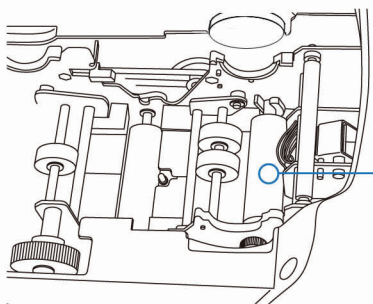


- 1 Open the printer's lid by pressing Cover Open Button and raise it fully.



***U-shaped Slot***

- 2 Slide the cleaning roller into the loading part and insert roller bar into U-shaped slots until it locks in place.

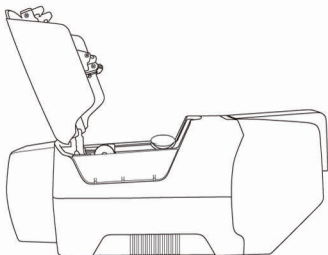


***Blue Cleaning Roller***

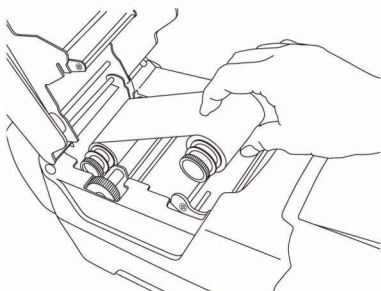
***Load a new cleaning roller or wash a used cleaning roller with each roll of printer ribbon.***



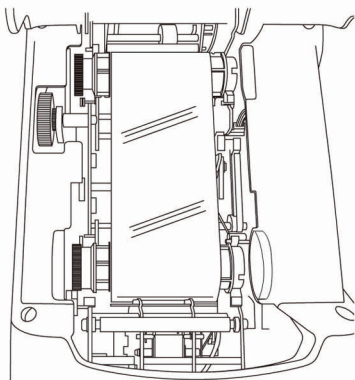
## 1.5 Loading Ribbon



- 1** Open the printer's lid by pressing Cover Open Button and raise it fully.



- 2** Place the supply spool into the front slots and the take-up spool into the rear slot. Firmly close the printer lid.



***Please note that improper closing lock of the printer lid may cause bad printing. (Check out lock of the printer lid)***

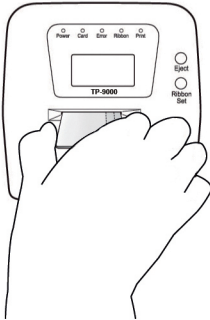
## 1.6 Single Card Feeding

### Inserting Cards

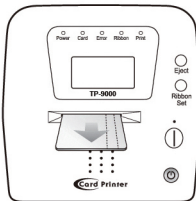
Cards are inserted one at a time into the slot at the front of the printer. The card is printed on the top surface and is ejected through the same slot.

**Note: Handle the cards only by the edges**

This figure shows the encoding orientation for contact smart-cards and cards with a magnetic stripe, on a TP-9000 printer.



- 1 Insert card, one at a time, into slot at front of printer. In the case of magnetic stripe card, the stripe should be on bottom and to the right.



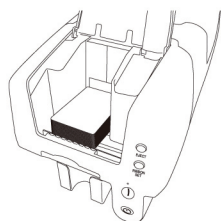
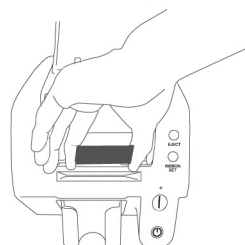
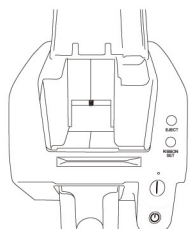
- 2 Card will be ejected through the same slot after printing.

If printing is desired on the side of the magnetic-stripe, the card should be inserted with the stripe on the top surface and to the right. For contactless smart-cards, orientation is not important.



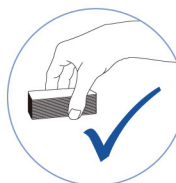


## 1.7 Loading Cards



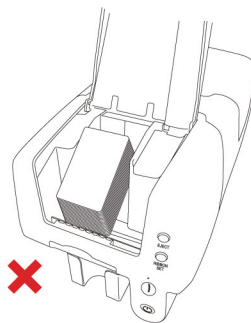
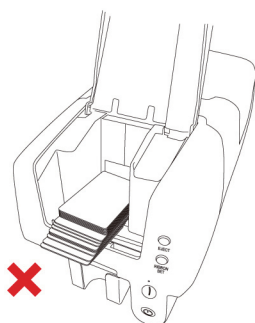
1 Open the card feeding lid.

2 Load new cards to print at the input hopper well as shown in the picture.



3 Please be sure that the cards were stacked well as instructed in the picture

***Wrong Card Stacking could be a cause of card feeding error.***

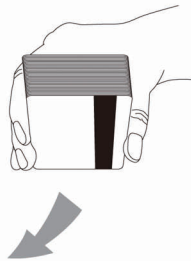
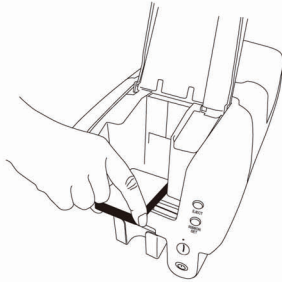


## 1.8 Using Magnetic Stripe Cards.

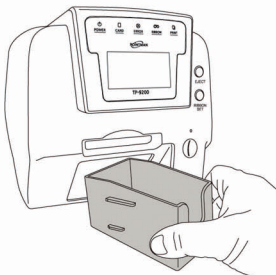
If your printer have the option of magnetic stripe encoding, you can print and encode the magnetic stripe (ISO 7811 track 1,2,3, Hi-Co/Lo-Co)

When you load magnetic stripe cards into card input hopper, please make sure the magnetic stripe should be on the bottom and to the right.

Magnetic Card Standard		: ISO 7811		
ISO 7811	Track	Track 1	Track 2	Track 3
	Recording Density	210 BPI	75 BPI	210 BPI
	Capacity	79 characters	40 characters	107 characters
		(7 bit code)	(5 bit code)	(5 bit code)
	Start/End code	%/?	:/?	:/?



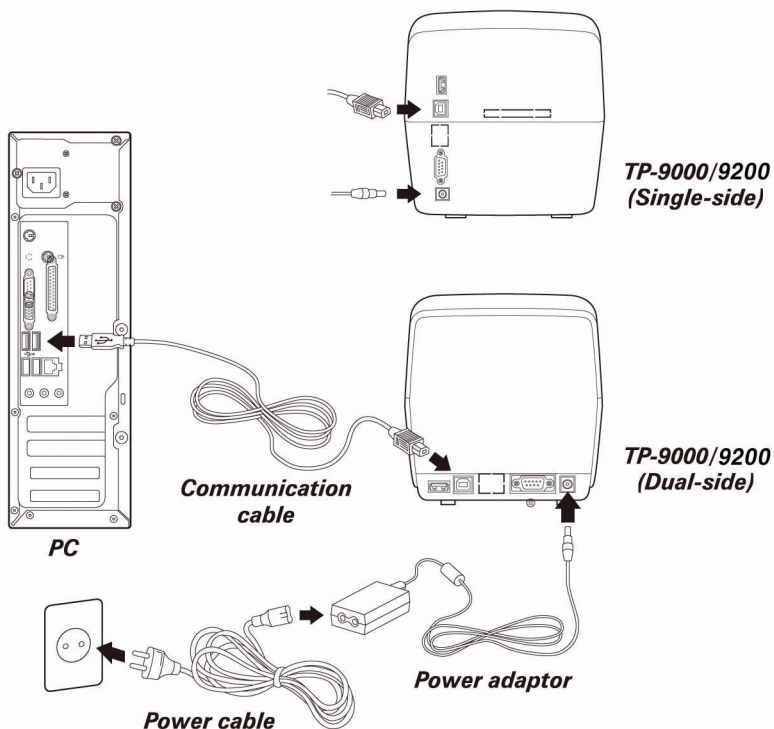
## 1.9 Card Output Stacker for the TP-9200



- 1 Lock the card output stacker into slots of the front side.



## 1.10 Power Device, Power Cable, Communication Cable



*Use only USB cable provided by Pointman and PC having authentic USB 2.0.*

## Driver / Software install

### 2.1 PC Systems requirement

The following operation systems are supported:

- Windows 2000
- Windows XP (32/64bit)
- Windows Vista (32/64bit)
- Windows 7 (32/64bit)
- Windows 8 (32/64bit)

Computer:

- CPU: Pentium III 1Ghz above (Pentium IV 1.5Ghz recommended)
- Memory: 128 MB above (512 MB recommended)
- HDD: 1 GB above (5 GB recommended)
- Internet Explorer 5.5 above (6.0 recommended)

***To install/remove the driver/software on Windows 2000/XP/Vista/7, 8, you must be logged in as the administrator.***

### 2.2 Installing Driver

***Close all windows in operation (Recommended)***

1

Putting the Pointman Driver/Software CD into the CD-ROM Drive of the computer, the installation window will open automatically.  
Or click Install.exe.





- 2 The initial window of Card Printer installation program like the following will automatically open.  
Click **Start** to begin installation process.

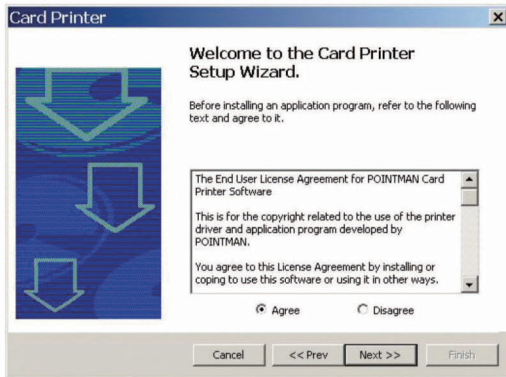


- 3 Select the software you wish to install. Click **Next**.



**Note :** When installing the printer onto a network, connect Ethernet cable to printers Ethernet port. Select Network Software & Card Printer Driver Printer Driver Before clicking Next. Switch Printer on (Ethernet install only) and when ready press Set ribbon prior to printing

- 4 After reading license agreement for the software installation, select **Agree** and then click **Next**.



- 5 Select the port type you wish to install. Click **Next**.





- 6 If Network Software is selected, this window will be shown and it will display an IP address by automatically searching the Network to which the printer is connected.



- [Search] button: This searches Network Board.
- [Config] button: This configures Network architecture.
- [Input by User]: If an IP address is not searched automatically, you can create a port by inputting an IP address directly. You should use this feature in case that you can't search an IP address even though Network Setting is done.
- If an IP address on the right-hand box next to Network Printer is not searched, you may configure it by clicking Config button. Please refer to the Network Configuration Settings section.
- If an IP address is "192.168.0.31", network printer port will be address as "IP\_192.168.0.31".



**Caution:**

***If you stop the document printing, the file in printing can be mixed up with other spooled file.***

**7** When installation is completed, please click **Exit**.



**8** Check out the selected software is installed.

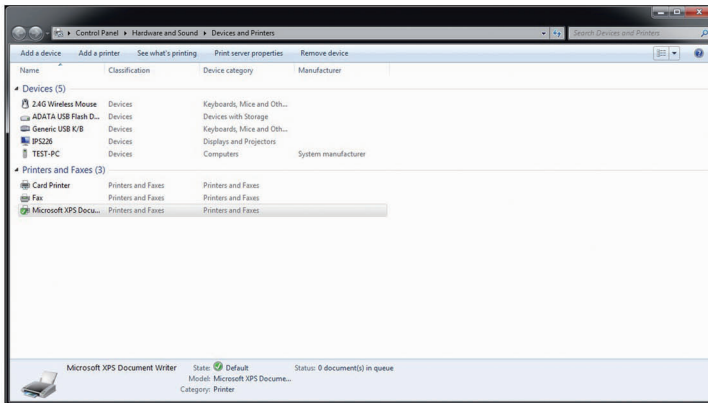
- (1) Check out **Card Designer Software** installation.
  - Go to **Start** ⇒ **All Programs** ⇒ **POINTMAN** ⇒ **Card Designer**
- (2) Check out **Card Printer Driver** installation
  - Go to **Start** ⇒ **All Programs** ⇒ **POINTMAN** ⇒ **Printer**
  - Go to **Card Printer** in Printers folder
- (3) Check out **Network software** installation (**Option**)
  - Go to **Start** ⇒ **All Programs** ⇒ **POINTMAN** ⇒ **Network**



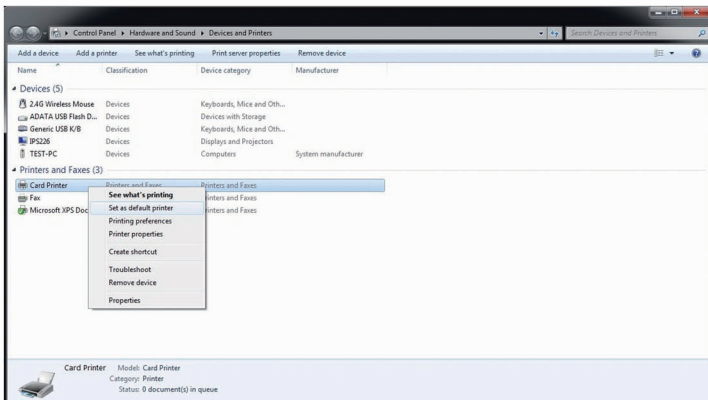
## 3 Printer with Card Printer

### 3.1 Setting up as the default printer

1 Go Start → Devices and Printers

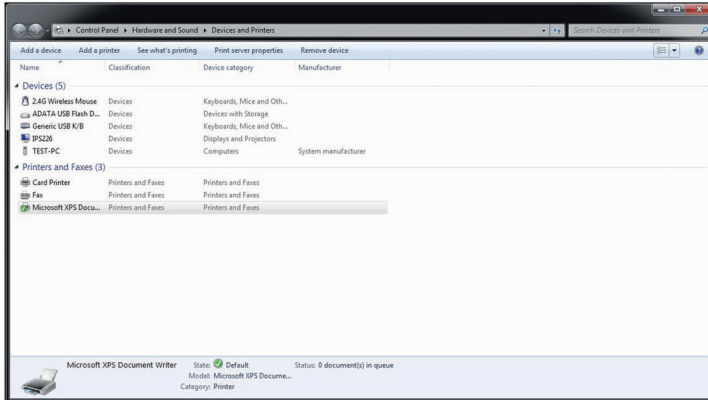


2 Right – Click “Card Printer Driver” and set as default printer

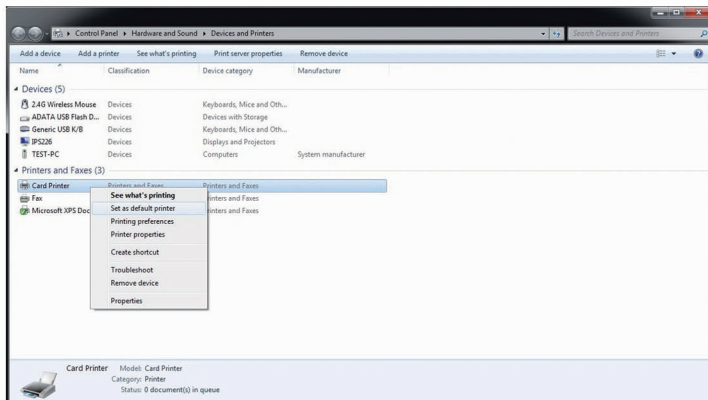


## 3.2 Changing the printer port (for Driver printing)

1 Go Start -> Devices and Printers



2 Right-Click "Card Printer" and select Printing Preferences (or Printer Properties)

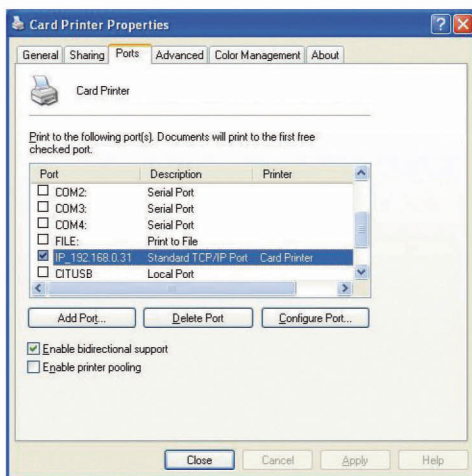


3 Select the Ports (or Detail)Tab.

4 Click the required port in order to print through either USB or Network



–Printing to Network Port: IP\_192.168.0.34 (For example–Refer to Network Configuration Settings section on Page 36 and choose the port(IP address) you want to use



If the driver is installed successfully, “Enable bidirectional support” is selected automatically. If you meet a problem when you print through the network port, please unselect “Enable bidirectional support” and proceed with printing

### 3.3 Printing a Card

Open file of the Window application software you wish to print

Select the Print in the File menu.

–Make sure that you choose Card Printer.

Select the printer settings you wish to print. Click Print or OK

–Ensure that the printing image is oriented in same direction (Landscape or Portrait) as that of the card. The preview function of the software will help you check it out.

### 3.4 Canceling Print

***There are two ways to cancel printing***

***1)Canceling in an application software***

***2)Canceling the printing jobs at printing job window.***

***If a card jams whilst being printed, press the EJECT button at the front of the printer.***

***Please do not open the printer cover by pressing “Open” button during the operation, If the printer cover is opened during the operation the printer would be stopped automatically.***

***Keeping your printer operating with printer cover open, you can have the risk of injuries.If you have any trouble, Please contact your dealer or the manufacturer.***



## 4 Printer Driver Settings

*User can set up own printing environment with various functions the printer provides.*

### 4.1 Opening in printer folder

You can modify the printer settings for all applications.

- 1 Click **Start**, point to **Settings**, and click **Printers and Faxes**.
- 2 Right-click **Card Printer**, select **Properties** (or **Printing Preferences**) and make the desired modifications.
- 3 Click each tab and window will open.
- 4 Upon completing settings, click **OK**.

### 4.2 Opening Printing Preferences on application software

The values input in printing program will get back to previous one when current operating program terminates.

- 1 Execute printing order in application program.
- 2 Click **Printing Preferences**.
- 3 Click each tab and windows will open.
- 4 Upon completing settings, click **OK**.



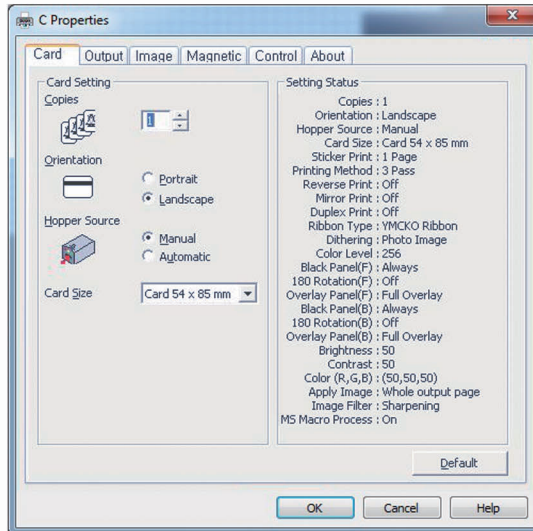
**NOTE:**

*You can find out the detail description for the printing preference at the next page.*

## Card Tab

### Opening Printing Preferences in Driver

The values input into the printing preferences in the driver will be saved.



### Items Description

Copies Sets the number of copies: 1 to 999.

Orientation Sets the card orientation.

Hopper Source Sets the source of the card supply in printer.

Card Size Sets the size of card.

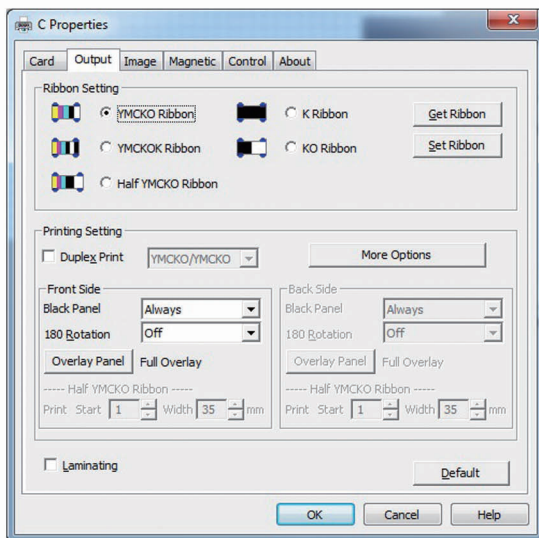


#### **NOTE:**

**Please refer to card specification of page 57 if unsure.**



## Output Tab



### Items Description

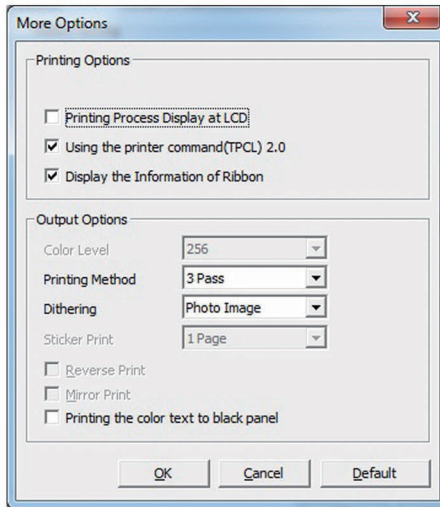
- Ribbon Type Sets the type of ribbon to be used
- Duplex Print prints the contents of a document on both sides of the card
- Black Panel, Select the K panel for printing black text and black images included in the design
- 180 Rotation will print the contents of the output data upside down on the card
- Overlay Panel option sets up the overlay panel for protecting the printed card. Options include : Full Overlay/No Overlay/Selected Area/Use Image File/Smart card ISO/Smart card AFNOR/Magnetic card



#### **NOTE:**

**For all Monochrome and Black/Overlay (KO) ribbons, you will need to set the ribbon manually.**

## More Options



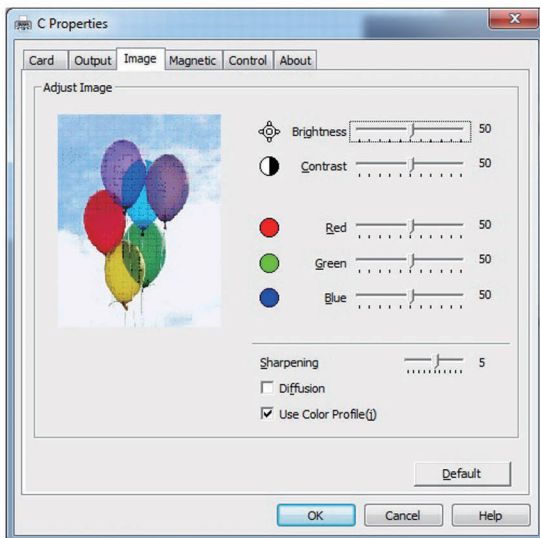
### Items Description

- Using the Spooler, Sets the method of transmitting data to the printer
- Printing Process Display on LCD, Displays printing process on LCD
- Display the information of the ribbon, Displays residual counts of ribbons.  
The information can be displayed if the ribbon has an RFID tag and the count is below 40
- Color Level, when printing this sets the number of colors
- Printing method, During Printing, the print mode for color ribbon movement can be set.  
1 Pass, Transfer all data for YMCKO then prints  
3 Pass, Transfer data for each panel then prints
- Dithering, this is applied to the data transmitted to the black panel of the ribbon (YMCKO)
- Reverse print, Reverses RGB and prints
- Mirror print, Mirrors the printing data and print.
- Printing the color text to the black panel, if color text is required in black





## Image Tab

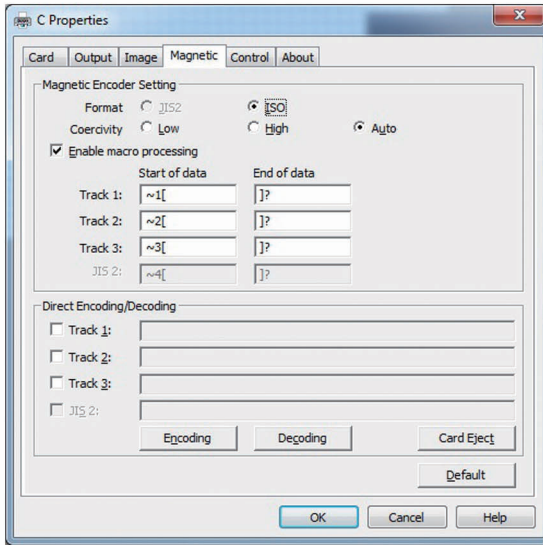


### Items Description

- Brightness – Sets the whole brightness of the printed card.
- Contrast – Sets dark areas as darker and bright areas as brighter
- RGB control  
The default RGB setting value is 50 and the controllable value step is 1~100  
Because the actual value steps of RGB (RED/GREEN/BLUE) is 0~255,  
1 step on this control section means 2~3 level  
  
You can see how the printing color will be changed with the control of RGB on the pictures left, balloons, but you can't see any change on the application S/W.
- Sharpening – The adjustable value steps of Sharpening is 1~10, and  
1 step on this control section means 1.5 level.
- Diffusion – Mixes the pixels of an image and makes it blurred
- Use Color Profile – Sets the color adjustment

## Magnetic Tab

You write or read track information in the magnetic strip.



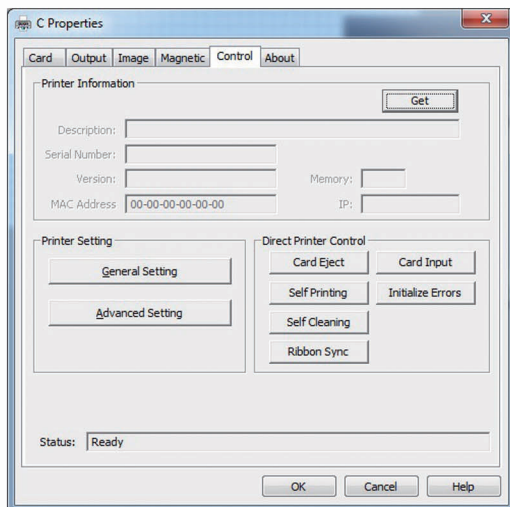
### Items Description

- Format, Sets the encoder format of the magnetic stripe
- Coercivity, Sets the coercivity type of magnetic stripe
- Enable macro processing, Send data to the magnetic stripe, when this option is set it detects the start and end of the encoding data from text format and processes it with Magnetic Stripe Encoding data.
- Encoding, Writes the data of selected track to the magnetic stripe
- Decoding, Reads the data of selected track from the magnetic stripe
- Card Eject, Ejects a card when the card remains inside the printer



## Control Tab

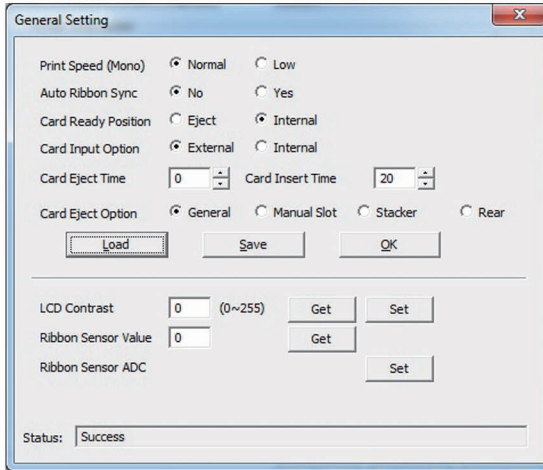
You write or read track information in the magnetic stripe.



### Items Description

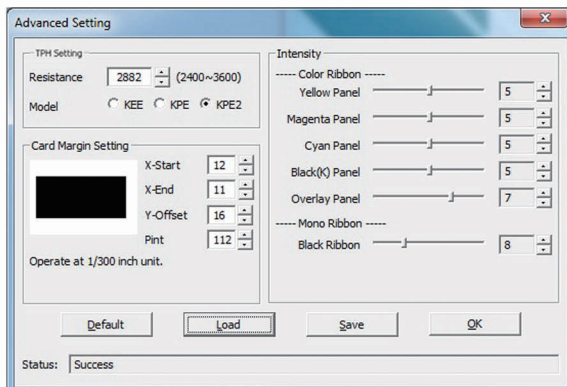
- Get, Retrieves the information from the printer and displays
- Card Eject, Ejects card from printer
- Card Input, Inserts a card that is ready at feeder
- Self-printing, Prints a self-test card
- Self-Cleaning, Initializes the clean cycle.
- Ribbon Sync, Synchronizes the ribbon.
- Initialize Errors, Removes the error state of the printer.

## General Setting Tab



- Printing Speed – Mono
- Auto ribbon Sync – Color ribbon will be synchronized whenever lid is closed
- Card Ready Position – On initializing card can be situated inside printer or in feed hopper
- Card input option – For TP-9000 only, On initializing card can be situated inside printer or in feed slot.
- Card Eject time – For the TP-9000, Card eject time for batch printing.
- Card Insert time – For the TP-9000, Card insert time for batch printing.
- Card Ejection Option
  - 1) General : from hopper to stacker (TP-9200) form manual slot to manual slot (TP-9200 and TP-9000)
  - 2) Manual Slot : Always out to manual slot (TP-9200)
  - 3) Stacker : Always out to Stacker (TP-9200)
  - 4) Rear : Always out to Rear (TP-9200 and TP-9000)

## Advanced Setting Tab



- TPH Resistance, Change the printhead resistance here
- Card Margin Setting, Offsets, default as above.  
(Note: Do not adjust these settings, they are critical to the printer operation)
- Intensity, Adjusts the darkness of the printed card.



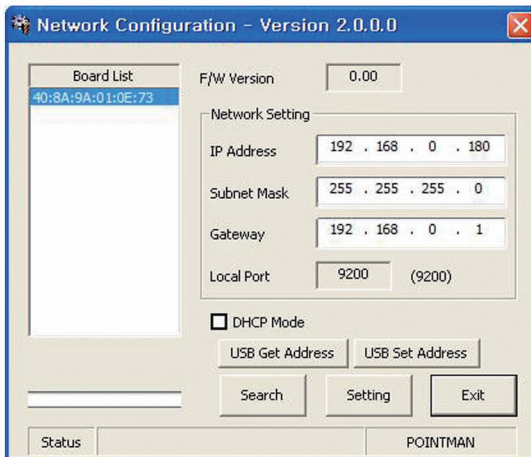
- The "About" tab shows information about the driver, If you click on the picture, Card Printer website will open via your internet browser.

## 4.3 Network Configuration Settings (Option)

*This function is supported on the specific models.*

### Network Configuration (Configure.exe)

- 1 Go to **Start** ⇒ **All Program** ⇒ **POINTMAN** ⇒ **Network** ⇒ **Network Setting**.



### What is DHCP(Dynamic Host Configuration Protocol)

- Dynamic Host Configuration Protocol (DHCP) is a computer networking protocol being used by the client computer to assign TCP/IP information automatically.
- The DHCP server automatically sends the Client's network configuration such as IP address, Subnet mask, Gateway and DNS server.
- If TCP/IP setting on a PC is set as "obtain an IP address automatically", it means DHCP is supported.



## **Network Setting - Auto Setting (DHCP supported)**

Info) TP-9200 and TP-9000 which has a TCP/IP network connection come configured in DHCP mode that means IP Address is supplied by the network.

- 1 Search the connected Network Board by clicking Search button.
- 2 Select MAC address on Board List.
- 3 Because IP Address, Subnet Mask, Gateway are automatically assigned from DHCP server, you do not need to input the data. However, you may input Subnet Mask and Gateway when they should be set separately.
- 4 Set Local Port for **9200** (You can't change this value)
- 5 Select DHCP Mode.
- 6 Click **Setting** button. It takes about 30 seconds for this setting. If it is set, please reboot the printer in order to get a new IP address from the server.
- 7 If you click **Search** button, you can check the new setting.

## **Network Setting - Manual Setting**

IP Address, Subnet Mask, Gateway should be assigned by Network administrator.

- 1 Search the connected Network Board by clicking Search button.
- 2 Select MAC address on Board List.
- 3 Input IP Address, Subnet Mask.
- 4 Set Local Port for **9200** (You can't change this value)
- 5 DHCP Mode should not be selected. You should un-select this option in the manual setting.
- 6 Click **Setting** button. It takes about 30 seconds for this setting. If this setting is done, please reboot the printer.
- 7 If you click **Search** button, you can check the new setting.

### *Items Description*

Board List – lists the searched network printers

F/W Version – show F/W version of the selected network board.

IP Address – shows IP address of the selected network board

Gateway – shows gateway address of the selected network board

Local Port – sets a printing port through network printer. Please select 9200

DHCP Mode                      If the network system supports DHCP, IP is automatically set. If not, you should directly change IP address after being assigned. And then you set it in order to use network printer

Search button                  Search network of a card printer

Setting button                  It saves the changed network information.  
After change, the card printer will be reset.  
You can use after 10 seconds

Exit button                      Exit the program

## **5 Printer Operation**

### **5.1 Printing a Card**

Printing with the TP-9XXX printer is similar with any other printer in windows environment.

The printer driver software is installed on your computer (see Page 20–23)

The printer is connected to the power source and the computer (see Page 18)

The printer is selected by either the operating system or the appropriate application software program.

Printer properties are set (the factory default values will be appropriate for many applications).

Card printing is directed by the appropriate application software program

### **5.2 Setting printer properties**

Printer properties can be set either at the operating system level or within the application software program used for printing cards.

Note: In the following description of setting printer properties, only those properties and options that are suitable for being set by the user are described. The user should not make selections or set parameters unless they are specifically described in this section.

Preference settings can configure the printer for landscape (wide) or portrait (tall) printing orientation, and allow the user to verify that the desired ribbon is installed in the printer.

Ribbon are selected via the output tab.

If the printer includes the optional magnetic card stripe encoder, encoding parameters and coercivity can be set.

## 5.3 Printing a sample Card

Sample card designs are installed with the printer driver. Sample cards require Microsoft Word or Microsoft Paint application software. The cards are accessed via the start menu.

First set the CARD PRINTER TP-9XXX as the default printer and then follow these steps to design and print your first card:

- 1 Launch Microsoft Word, Depending on your computer configuration this may be done by Double-clicking the windows start icon, selecting programs, and navigating to Microsoft Word.
- 2 Go to the file menu and choose page setup.
- 3 Select the paper size tab, choose card, under orientation, select landscape
- 4 Select the margins tab, and set the top, bottom, left, and right margins to 0 (Zero)
- 5 Click OK to close the page setup window
- 6 The card appears on the screen
- 7 Design a card with both and coloured text and with coloured pictures.
- 8 Once you are ready to print, go to the file menu and select print
- 9 The printer will feed in a card and start printing (the data download time will vary depending on the complexity of the card design and the processing speed of your computer)
- 10 Once the printing job is complete, the card is ejected from the printer.



## 5.4 Printing a self-test card

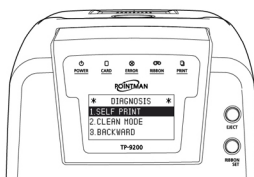
- 1 Power on the printer (No PC connection necessary)
- 2 Make sure a ribbon is loaded and a card is in the hopper or ready in single feed slot.
- 3 Push the EJECT and RIBBON SET button together at the same time until the LCD displays "User Mode"  
Please Push RIBBON SET button till the user mode menu comes up then push RIBBON SET button longer on 1.DIAGNOSIS to go into Self Print menu.  
If you want to select different part, please push RIBBON SET button shorter.



User Mode



Diagnosis

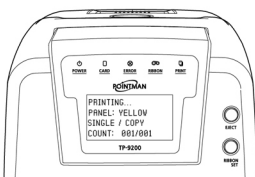


Self Printing Mode

- 4 Push RIBBON SET button when Self-Printing menu is selected.



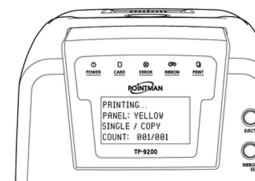
Self Printing



- 5 A self printing card is then printed, see below for samples of YMCKO and Mono ribbon Self-Printing cards. "Self Printing Done" will be displayed at LCD.



Self Printing



Self Printing Done



- 6 Push the Eject button and Ribbon Set button together when Self-Printing is done. LCD display would be backward.



## 5.5 Printing via a PC Connection

- 1 Connect the USB to the PC and power on the printer.  
Ensure ribbon and cards are installed
- 2 Go to the driver and printing preferences -> control tab -> Direct printer control -> Click self printing
- 3 Printer will display Self Printing  
The printed test card will print and eject





## 5.6 Printing One Card at a Time

**NOTE:**

*The card feeder must be empty for printing single card using TP-9200 printer.*

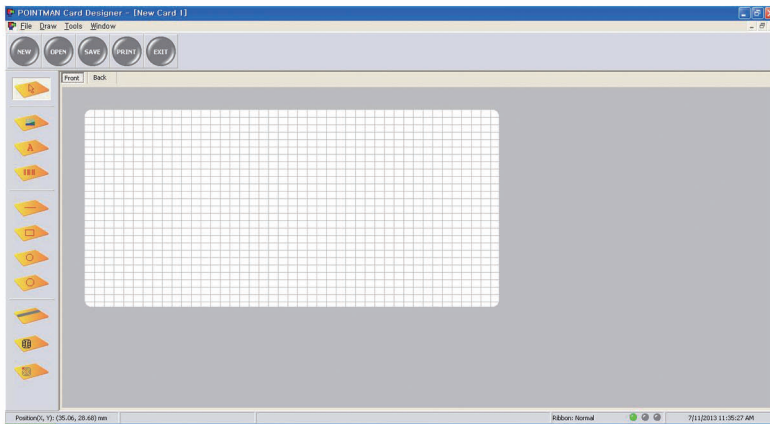
- 1 Insert a card into the single card entry slot
- 2 Go to your ID software package and print a card
- 3 Wait until the printer has printed the card

## Software Operation

### 6.1 Getting Started

CardDesigner 1.0 is software that allows user to design and issue cards. Follow the steps below to create cards.

Go to **Start** ⇒ **All Programs** ⇒ **POINTMAN** ⇒ **Card Designer**  
⇒ **Card Designer**



### 6.2 Description on Features


- NEW : Design new card. Up to 10 windows can be created at the same time.
- OPEN : Read a saved card design.
- SAVE : Save a card design.
- ISSUE : Print a card.
- EXIT : Terminate the window.

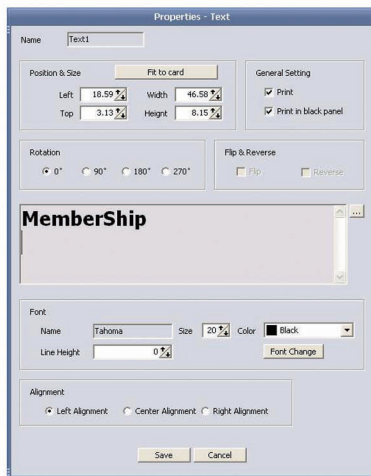
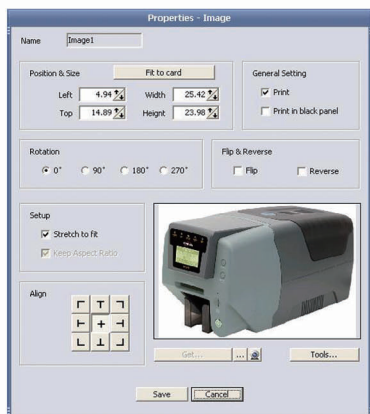
### 6.3 Designing Card

CardDesigner 1.0 is software that allows user to design and issue cards. Follow the steps below to create cards.




## IMAGE designing


- 1) Select  icon to start image designing in The Designer.
- 2) Drag mouse on the range where image is positioned on card.
- 3) When window of "Properties-Image" opens, Click "Select Image" button or "Cam" button. Select image you wish to insert.
- 4) Click "Save", then the selected image is inserted.
- 5) You can change properties of the inserted image.



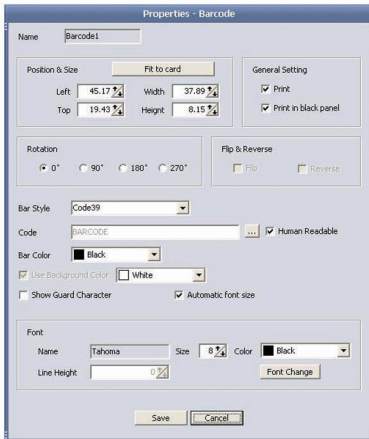
## TEXT designing

- 1) Select  icon to start bar code designing in The Designer.
- 2) Drag mouse on the range where barcode is positioned on card.
- 3) When window of "Properties-barcode" opens, insert "Code" you wish to insert.
- 4) Click "Save", then the bar code is inserted.
- 5) If you wish to change properties of the inserted text, double click on the bar code.

## BARCODE designing

- 1) Select  icon to start bar code designing in The Designer.
- 2) Drag mouse on the range where barcode is positioned on card.
- 3) When window of "Properties-barcode" opens, insert "Code" you wish to insert.


- 4) Click "Save", then the bar code is inserted.
- 5) If you wish to change properties of the inserted text, double click on the bar code.

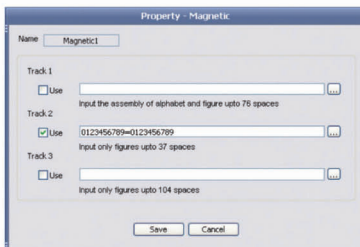


## DIAGRAM designing

- 1) Select  icon to start diagram designing in The Designer.
- 2) You can draw Diagram; Circle, Rectangle, Oval.
- 3) If you wish to change properties of the diagram, double click on the diagram.


## MAGNETIC designing

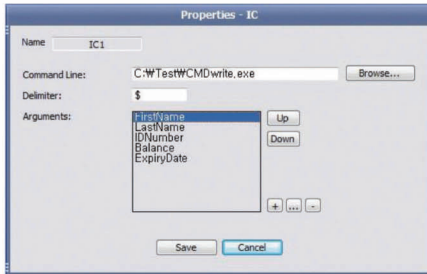
- 1) Select  icon to start diagram designing in The Designer.
- 2) Magnetic stripe is displayed within the range of card.
- 3) If you wish to input data into magnetic stripe, double click the magnetic stripe and input data in the relevant track.



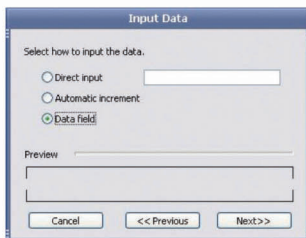


## IC CARD

- 1) Select  icon to start diagram designing in CardDesigner.
- 2) IC chip is displayed within the range of card. Set each item you want to write in the IC properties.



- 3) Select the IC encoding program file which will be used for IC encoding by clicking [Browse...] button.
- 4) Input Delimiter for each Argument at Delimiter box. (1 byte).
- 5) You can add or delete the arguments with "+" and "-" button.
  - You can add the arguments with ([+]) button or change the property of the argument with ([...]) button
  - You can delete the arguments with ([ - ]) button.

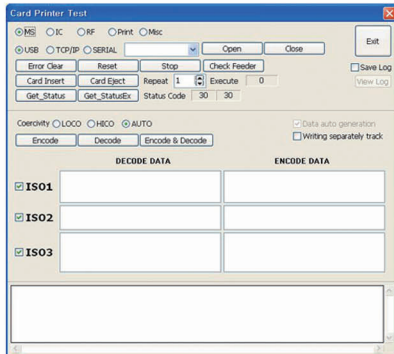


- 6) When you print and encode a IC chip with calling the IC encoding program on TheDesigner , the arguments will be sent in the format as the example below.

[Calling example] C:\Test\CMDWrite.exe FirstName\$LastName\$IDNumber  
\$Balance\$ExpiryDate

## 6.4 Tools

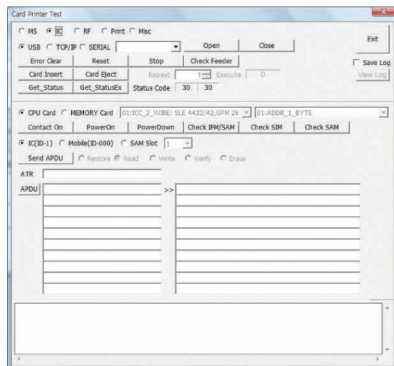
### MAGNETIC CARD



After input of data to be written on magnetic track, click "Write".

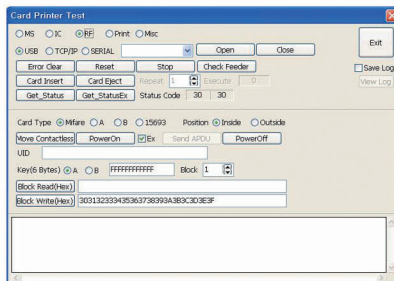
Click "Read" to read the saved data on each track.

### IC CARD



Select "IC" and click "Read" button. Progress bar will show communication status with IC chip.

### RF CARD

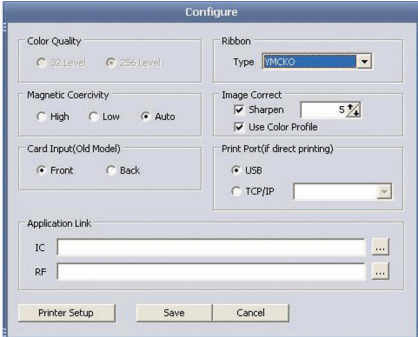


Click "Card Read". The progress will show communication status with RF card.

## 6.5 Configuration

### Configure

When issuing card, user can set the type of ribbons, the card orientation and dithering for black ribbon. When issuing IC card or RF card, user can set the external program necessary.

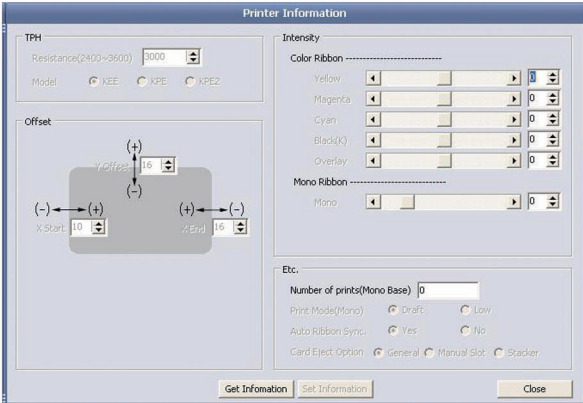


The **Configure** dialog box contains the following sections:

- Color Quality:** Radio buttons for 32 Level, 256 Level, and 128 Level.
- Magnetic Coercivity:** Radio buttons for High, Low, and Auto.
- Card Input (Old Model):** Radio buttons for Front and Back.
- Application Link:** Input fields for IC and RF with browse buttons.
- Ribbon:** A dropdown menu for ribbon type.
- Image Correct:** Checkboxes for Sharpen and Use Color Profile.
- Print Port (if direct printing):** Radio buttons for USB and TCP/IP with a port selection dropdown.
- Buttons:** Printer Setup, Save, and Cancel.

### Printer Information

You can change set-up of a printer at configure by clicking Printer Setup.



The **Printer Information** dialog box contains the following sections:

- TPH:** Resistance (2400~3500) dropdown and Model radio buttons (KEE, KPE, KPE2).
- Offset:** A diagram showing X Start, X End, Y Offset, and Y End with adjustment arrows.
- Intensity:**
  - Color Ribbon:** Sliders for Yellow, Magenta, Cyan, Black(K), and Overlay.
  - Mono Ribbon:** A slider for Mono.
- Etc.:**
  - Number of prints(Mono Base) input field.
  - Print Mode(Mono) radio buttons: Draft, Low, and High.
  - Auto Ribbon Sync radio buttons: Yes and No.
  - Card Eject Option radio buttons: General, Manual Slot, and Stacker.
- Buttons:** Get Information, Set Information, and Close.

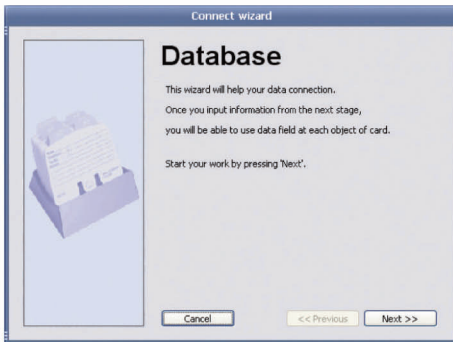


## 6.6 Data Synchronizing

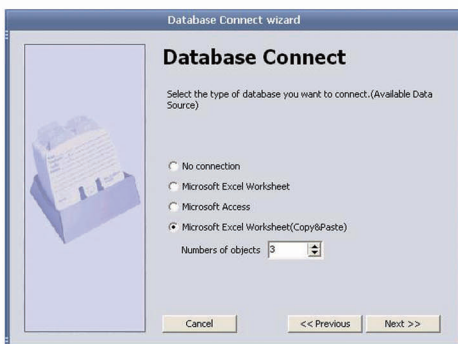
***Data Synchronizing will help user to synchronize data created in Microsoft Excel or Microsoft Access with what will be used in card issuing software for card creation. User can make card effectively in shorter time.***

### Data Connect Wizard

- 1 The Designer "Tool" ⇒ "Data Connect" ⇒ "Data Connect wizard"

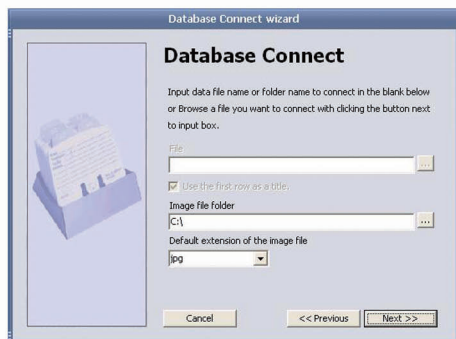


- 2 Select target database to synchronize.  
(Select Excel Worksheet if target DB is in Excel Copy & Paste method.)  
If you select "Microsoft Excel worksheet (Copy & Paste)", you should input the numbers of column you will use.



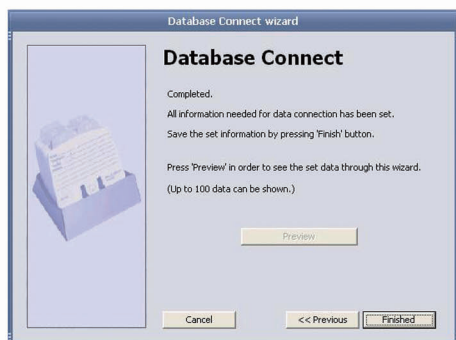


- 3 Please select the Database file or/and Image file folder being used for database connection. The searching window will be executed with clicking "... " button.

**NOTE:**

***When you set the image file folder for database connection, all image files in the folder should have the same format. The file in different format would not be printed.***

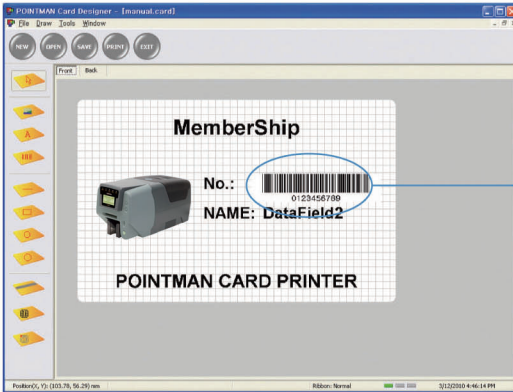
- 4 Choose Sheet to be used in database.



<Completing synchronizing>

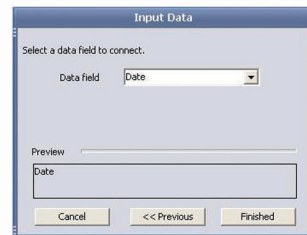
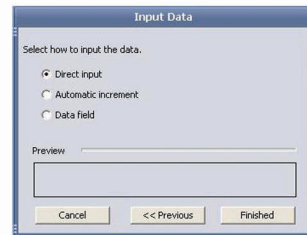
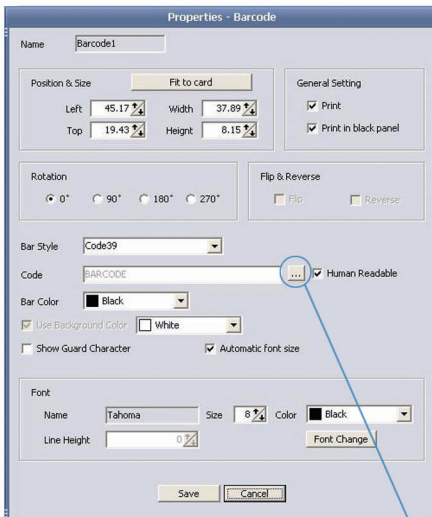
## Synchronizing data on the card with database (ex.staff number)

- 1 Double click Barcode on database to synchronize.



*Article for DataField 1:  
Double click*

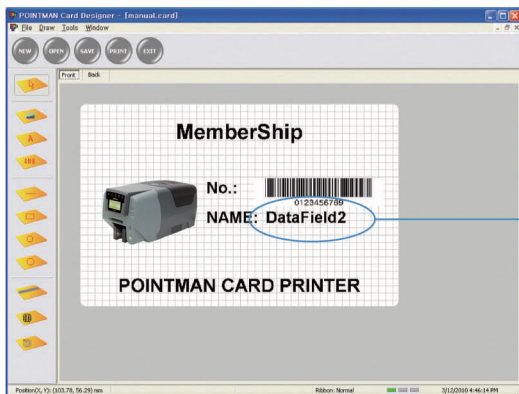
- 2 Click "Data Field Connection" button(...). "Data field" for data input. Select "Staff number" for data field. Click "+" to add data for staff number. Click "Finish".



*Data Field Connection Button*

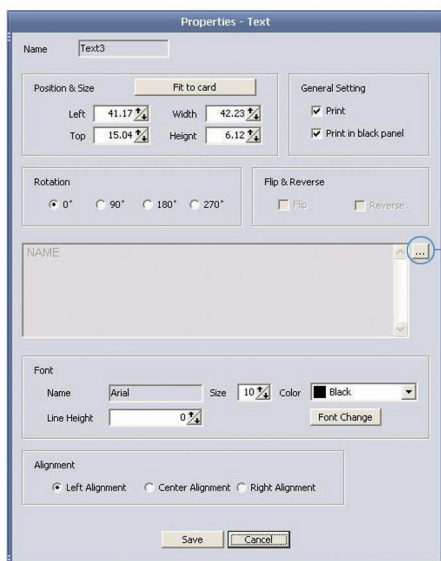
## Synchronizing data on the card with database (ex.staff name)

- 1 Double click Name on database to synchronize.



*Article for DataField 2:  
Double click*

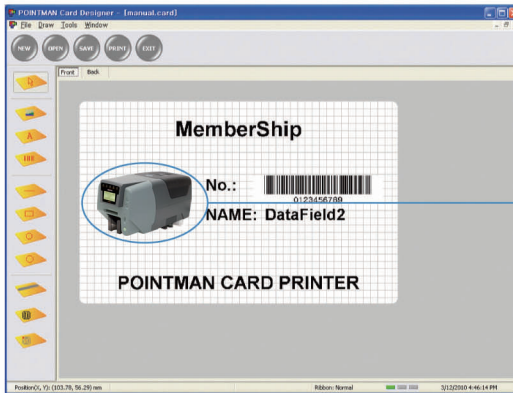
- 2 Click "Data Field Connection" button(...). Select "Data field" for data input. Select "Staff Name" for data field. Click "+" to add data for staff number. Click "Finish". And Click "Save".



*Data Field Connection Button*

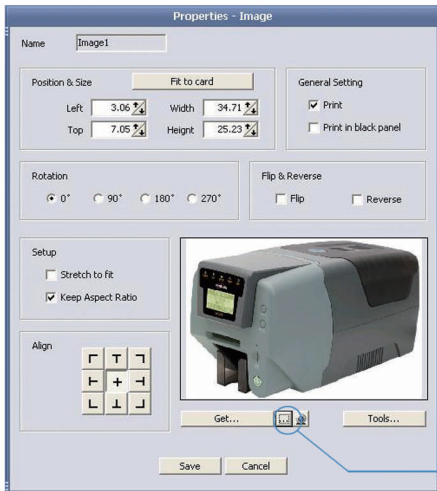
## Synchronizing data on the card with database (ex.staff picture)

- 1 Double click Picture on database to synchronize.



*Article for DataField 3:  
Double click*

- 2 Click "Data Field Connection" button(...). Select "Data Field" for data input. Select "Staff Picture" for data field. Click "+" to add data for staff number. Click "Finish". And Click "Save".

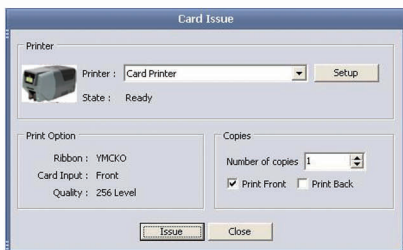


*Data Field Connection Button*

## 6.7 Card Printing

### ***Card Issue(Normal)***

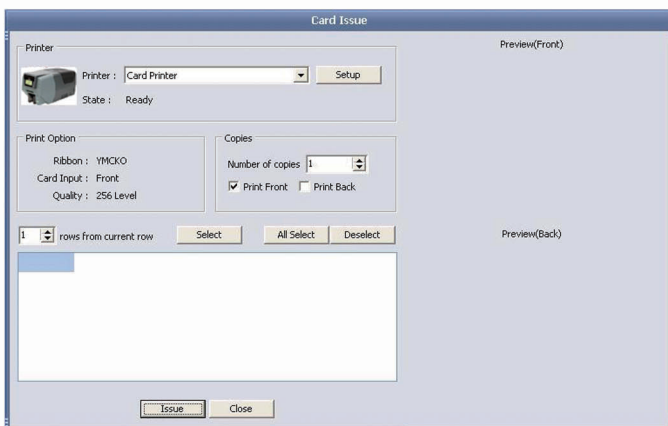
- 1 If you click "Issue" on TheDesigner, window below will open.



- 2 Select the type of printer (Driver or Direct).
- 3 Make a print with "Issue" button after finishing the setup of ribbon and other details

### ***Card Issue(Data Field Connection)***

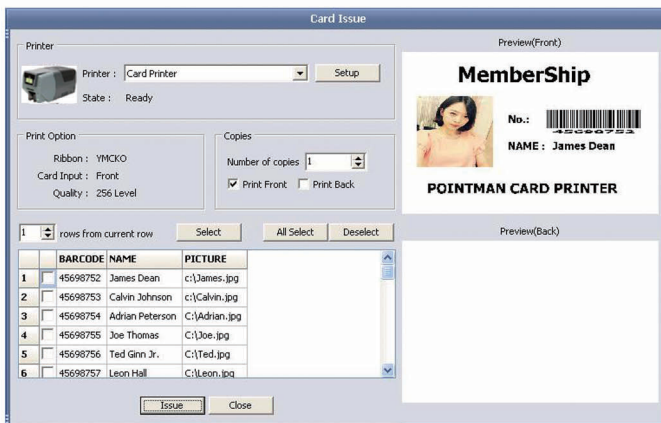
- 1 If you click "Issue" on TheDesigner, window below will open.



- 2 Execute Microsoft excel => Select the data area and copy them.

	A	B	C	D	E
1	BARCODE	NAME	PICTURE		
2	45698752	James Dean	C:\James.jpg		
3	45698753	Calvin Johnson	C:\Calvin.jpg		
4	45698754	Adrian Peterson	C:\Adrian.jpg		
5	45698755	Joe Thomas	C:\Joe.jpg		
6	45698756	Ted Ginn Jr.	C:\Ted.jpg		
7	45698757	Leon Hall	C:\Leon.jpg		
8	45698758	Jake Long	C:\Jake.jpg		
9	45698759	Justin Blalock	C:\Justin.jpg		
10	45698760	Glenn Dorsey	C:\Glenn.jpg		
11	45698761	Alan Branch	C:\Alan.jpg		
12					
13					
14					
15					
16					
17					
18					
19					

- 3 When you use Microsoft Excel worksheet (Copy&Paste) mode, click "Paste" button or click the marked area with mouse right button and click Paste at pop-up menu, then data will show up.



- 4 Check at the left of data which you will print and Click "issue" to make a print.





# Instructions on Maintenance

## 7.1 Maintenance of Product

### *Choosing the right Cards*

You can't use all white plastic cards in Pointman card printer. In order to get the best image quality and avoid Card Jam Error, please use the high quality grade PVC cards.

#### **Card Size**

- Standard (ISO CR80-ISO 7810)
- = 53.98mm W x 85.60 mm L / 3.375" x 2.125"

#### **Card Thickness**

- Minimum - 0.40mm.
- Standard - 0.76mm
- Maximum - 1.2mm

#### **Card should be:**

- Glossy white.
- Free from the dirt and grease.
- Free from surface contamination.
- Free from pits and bumps in the surface .
- Free from burrs at the edge of the card
- Completely Flat

#### **Card should not be**

- Heavy damaged card
- Card with heavy dirt
- Card with scratch
- Bended or deformed card

## 7.2 How to Clean the Printer

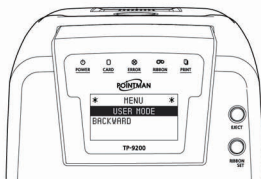
*Dirt or embedded contamination on rollers may cause printer problems. Follow the recommended maintenance procedures below*

### ***Cleaning the Inside Transport Rollers Using the Small Cleaning Card***

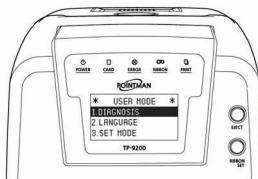
Intermediate clean when changing the ribbon (1,000 passes) or each month, whichever occurs first

#### ***Clean cycle standalone (no PC connection) : User Mode***

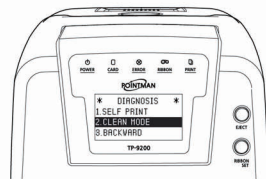
- 1** Turn off the printer, remove the cards and ribbon inside the printer and shut the printer lid.
- 2** With TP-9200, insert the small cleaning card into the card feeder. For TP-9000 card printer, insert the cleaning card into the front feed slot.
- 3** Turn on the printer. After initializing, push the EJECT and RIBBON SET button together at the same time until the LCD displays "User Mode"
- 4** Go to Self-Print menu :  
USER MODE → 1. DIAGNOSIS → 2. CLEAN MODE



User Mode



Diagnosis



Clean Mode



5 Push the Ribbon Set button till the cleaning is started.

6 The card will move backwards and forwards inside the printer 10 times and then ejected.



Cleaning

7 Push the eject button and Ribbon Set button together when Cleaning Completed. LCD display would be backward.



Cleaning Completed

8 Leave the printer for 2–3 minutes, until the alcohol cleaner evaporates.

### ***Clean cycle via driver (PC connection)***

- 1 Turn off the power and remove the cards and ribbon, close the lid. Turn on the power
- 2 Go to the driver → printing preferences → control tab → direct printer control → click self-cleaning
- 3 When front LED lights flashes, insert small alcohol soaked card.
- 4 Leave for 2–3 minutes after card is ejected to allow alcohol to evaporate

## Using the Small Cleaning Card and Long T-Shape Card

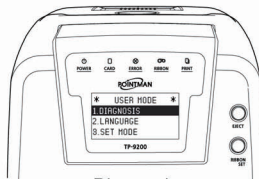
Using Long T-Shape Card

Thorough clean every 3 ribbons or every 3 months, whichever occurs first.

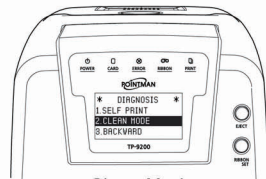
- 1 Turn off the printer, remove the cards and ribbon inside the printer and shut the printer lid.
- 2 With TP-9200, insert the small cleaning card into the card feeder. For TP-9000 card printer, insert the T-shape cleaning card into the front feed slot.
- 3 Turn on the printer. After initializing, push the EJECT and RIBBON SET button together at the same time until the LCD displays "User Mode"
- 4 Go to Self-Print menu: USER MODE → 1.DIAGNOSIS →2.CLEAN MODE



User Mode



Diagnosis



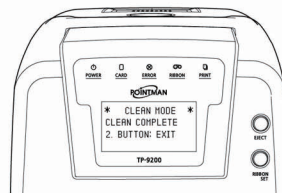
Clean Mode

- 5 Push the Ribbon Set button. The T-Shape card will be taken into the printer for the cleaning.



Cleaning

- 6 Push the Eject button and Ribbon Set button together when Cleaning Completed. LCD display would be backward.



Cleaning Completed



7 Leave the printer for 2–3 minutes, until the alcohol cleaner evaporates.

8 Leave the printer for 2–3 minutes before using, to give the alcohol time to evaporate.

***If you are using a TP-9200 card printer, it is necessary to cut the long T-shape card where indicated on the diagram before inserting it into the printer.***



## ***Washing the Blue Cleaning Roller***

Wash the roller when changing the ribbon (1,000 passes) or each week, whichever comes first.

- 1 Remove the Blue cleaning roller from the printer
- 2 Wash the cleaning roller under running water
- 3 When dry, replace the blue cleaning roller in the printer.

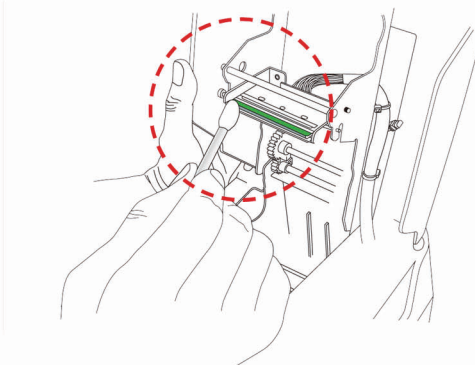
## ***Cleaning the thermal print head (TPH)***

- 1 Clean the TPH when changing the ribbon (1,000 passes) or each month, whichever occurs first
- 2 Turn off the printer and open top cover
- 3 Tilt the TPH cleaner swab, so that the bubble is at the opposite end to the foam head
- 4 Press the tube to force the alcohol to impregnate the foam head



**CAUTION:** Ensure that the head of the swab is pointed away from your face

- 1 Use alcohol impregnated foam head to clean the TPH. Clean only the part below the two green lines, Do not touch with your fingers.
- 2 Make sure the alcohol has evaporated before turning on the power, The TPH may be damaged if you used when wet.







## 8 Troubleshooting

### 8.1 In case front LED keeps on flashing or always on all the time.

#### Description of Error code

##### a) Fatal Error

Code	Code name	Description	Proper measures
10	TPH OPEN	- TPH Module Open in process of printing.	- Check the status of TPH Module Open or Change TPH Open Checking Sensor.
11	TPH Up/Down Fail	- Fail in TPH Up or Down	- Check TPH Up / Down Module
12	Path Jam	- Card Jam on the Path	- Check the status of the Path or Jam on the path.
13	TPH Temp Error	- Disorder in TPH temperature	- Check the temperature of working condition. Operating temp. : 0°C ~ 70°C
14	Ribbon Encoder Error	- Ribbon Broken or Ribbon End or Encoder Error	- Check the status of Ribbon and Ribbon Encoder.
15	Media Error	- Error in Media	- Check the status of card (media) and Path Sensor.
16	EEPROM Fail	- Error in EEPROM Read / Write	- Reboot or Change EEPROM.
17	IC Contact Module Error	- Error in the location of IC Contact Module	
50	Card Flipper Timer Out	- Error in Card Flipper Communication	- Power off -> Remove Cards (media) -> Reboot
51	Card Flipper Ack Timeout	- Error in Card Flipper Communication	- Power off -> Remove Cards (media) -> Reboot
52	Card Flipper Home Position Error	- Error occurred in the Card Flipper Home Position	- Power off -> Remove Cards (media) -> Reboot
53	Card Flipper Turn Up Error	- Error in Card Flipper Turn Up	- Power off -> Remove Cards (media) -> Reboot
54	Card Flipper Card Input Time out	- Time out during entering the card into Card Flipper	- Power off -> Remove Cards (media) -> Reboot
55	Card Flipper Card Input Jam	- Jam occurred at the time of entering the card into Card Flipper	- Power off -> Remove Cards (media) -> Reboot
56	Card Flipper Card Jam	- Card Jam in the Card Flipper	- Power off -> Remove Cards (media) -> Reboot
57	Changer Card Exist	- Abnormal card is detected in the Changer.	- Power off -> Remove Cards (media) -> Reboot



## b) Warning

Code	Code name	Description	Proper measures
20	Command Error	- Receiving command out of Format	- Send command corresponding to Format
21	Invalid Parameter	- Receiving Parameter out of Format	- Set Parameter corresponding to Format.
22	Time Out	- Command Timeout	- Send Command.
23	IC Contact Error	- IC Contact is not working.	- Check IC Contact Module.
24	Ms Encode Error	- Error in Ms Encoding.	- Check MS Feeding.
25	Ms Read Error	- Failure in reading 3 tracks all in Ms All Track Reading.	- Check MS Feeding.
26	Ms Read STX Error	- STX not found in Ms Reading.	- Check MS Feeding.
27	Ms Read PARITY Error	- Parity Error in Ms Reading.	- Check MS Feeding.
28	Ms Read ETX Error	- ETX not found in Ms Reading.	- Check MS Feeding.
29	Ms Read LRC Error	- Discordant LRCM in MS Reading.	- Check MS Feeding.
30	IC Module Timeout	- Failure in IC Module communication.	- Check IFM B/D Interface. Check IFM B/D.
31	RF Module Timeout	- Failure in RF Module communication.	- Check RF B/D Interface. Check RF B/D.
32	SAM Module Timeout	- Failure in SAM Module communication.	- Check SAM B/D Interface. Check SAM B/D.
33	Card Flipper Module Timeout	- Failure in Card Flipper Module communication.	- Check Card Flipper B/D Interface. Check SAM B/D.
34	Card Input Timeout	- Card Input Time Out	- Check Hopper. Insert Card within pertinent timing.
35	Near end of ribbon	- Near end of ribbon	- Considering exchanging Ribbon
36	Ribbon End	- Perceiving End Mark of YMCKO Ribbon.	- Exchange Ribbon
38	Ribbon Error	- Abnormal Ribbon installed.	- Check Ribbon and Install certificated Ribbon.

**\* If you still have the troubles after you first action, you should contact your dealer for the maintenance**



### **Caution:**

**After the trouble above is resolved, perform one of three below to get printer into normal operation.**

- 1) Press reset button with ribbon cartridge correctly loaded.**
- 2) Press "EJECT" button**
- 3) Place power switch in OFF position, and ON position.**



## 8.2 Other Troubles

<i>Trouble</i>	<i>Solution</i>
Found frequently ribbons cut in the front edge of card when printing	<ul style="list-style-type: none"> <li>- Check if X-start coordinate value on the printer driver is set correctly.</li> <li>The recommendation of X-start coordination value is <math>14 \pm 2</math></li> </ul>
Found frequently ribbons cut in the rear edge of card when printing	<ul style="list-style-type: none"> <li>- Check if X-end coordinate value on the printer driver is set correctly.</li> <li>The recommendation of X-end coordination value is <math>14 \pm 2</math></li> </ul>
Printer not found in The Designer or application software	<ul style="list-style-type: none"> <li>- Check that printer driver is correctly installed.</li> <li>- Check that communication cable is properly connected</li> <li>- Reboot your PC.</li> </ul>
Other than power LED, 4 Front LEDs continuously flash in sequence	<ul style="list-style-type: none"> <li>- Check out <a href="http://www.titeng.co.kr">www.titeng.co.kr</a> for firmware download.</li> <li>- Download t latest version of firmware for the printer.</li> <li>- Perform install using firmware install program.</li> </ul>

## 9 Ribbons

### 9.1 Color Ribbons

Ribbon Type	Specifications	TP-9000	TP-9200
YMCKO	200 Prints/Roll	O	O
1/2YMCKO	300 Prints/Roll	O	O
YMCKO-K	167 Prints/Roll	O	O

### 9.2 Monochrome Ribbons

Ribbon Type	Specifications	TP-9000	TP-9200
Blue	1000 Prints/Roll	O	O
Black	1000 Prints/Roll	O	O
Red	1000 Prints/Roll	O	O
Green	1000 Prints/Roll	O	O
White	1000 Prints/Roll	O	O
Metallic Gold	1000 Prints/Roll	O	O
Metallic Silver	1000 Prints/Roll	O	O
KO (black and overlay)	500 Prints/Roll	O	O



# **10 POINTMAN Card Printer Specifications**

## **10.1 Main Features**

- Color & Monochrome printing
- Single Side or Dual Side printing
- Individual card slot for reprinting
- Easy to exchange ribbon & TPH
- Design software ‘TheDesigner’

## **10.2 Specifications**

### ***Printer Standard Features***

- **Print Technology**  
Direct-to-card Dye-sublimation / Resin thermal transfer
- **Print Capabilities**  
One or Two Sided, edge-to-edge printing  
Full-color and monochrome printing capability  
Alphanumeric text, logos and digitized signatures
- **Print Resolution**  
300 dpi (11.8 dpm), 16.7 Million Color
- **Print Speed** \*under specific condition  
**Full-color Printing**  
Single Side (YMCO) – up to 200 cards /hr  
Single Side (YMCKO) – up to 170 cards/hr  
Dual side (YMCKO-K) – up to 155 cards /hr  
**Monochrome**  
up to 550 cards /hr.
- **Card Capacity**  
Automatic Feed 100-card input for 0.4mm ~1.2mm cards  
70-card output standard  
Manual Single Feed : 1-card input

## ***Printer Option***

- Magnetic Stripe Encoding : ISO7811 (Track 1,2,3), Coercivity : HiCo/LoCo
- Smart Card Personalization : ISO, EMV – Contact Landing Type
- RF ID Card : Mifare, ISO 14443 A / B, ISO15693
- SAM : PLCC 1 (Extra-2 Sockets), SIM 4 sockets
- Mobile Chip Card : ISO 7816

## ***Printer Specifications***

- Dimensions  
TP-9200 Single : 403(L) × 192 (W) × 202 (H)mm  
Dual : 471(L) × 192 (W) × 202 (H)mm  
  
TP-9000 Single : 292(L) × 192 (W) × 196 (H)mm  
Dual : 395(L) × 192 (W) × 196 (H)mm
- Weight  
TP-9200 Single : 5.5kg / Dual : 6.5kg  
  
TP-9000 Single : 4.5kg / Dual : 5.0kg
- Power Input : 100V~250V, 50/60Hz, Output: DC 24V
- Font : True Type Fonts via Window Drivers
- Memory : 128MB RAM
- Interface : USB2.0 (High-Speed), RS-232, Built in 10/100 Ethernet
- Operating System for Printer Driver  
All 32-bit and 64-bit compatible: Window ®8, Windows® 7,  
Windows Vista®, XP, indows 2008 Server, Windows 2003 Server
- Software: TheDesigner™



## 11 Regulatory

### FCC



FCC IDENTIFIER: XTNP9200

Name of Grantee: TIT ENG Co.,Ltd.

Equipment Class: Part 15 Low Power Communication Device Transmitter

Notes: ID CARD PRINTER

#### FCC STATEMENT

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

NOTE: 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 in a residential installation. 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 to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. — Consult the dealer or an experienced radio/TV technician for help.

### CE

Registration No. G109567D

Certificate Holder T.I.T. ENG Co., Ltd.

Product Designation ID CARD PRINTER, Model TP-9200,

Brand: POINTMAN, Javelin

Frequency Range: 13.56 MHz

Transmit Power: -12.69 dBμA/m at 10 m

Product Description Inductive application

Manufacturer T.I.T. ENG Co., Ltd.

Essential Requirement Applied Specifications / Standards Documentary Evidence Result

Art. 3.1(a) Health EN 50364 EMF Human Exposure Statement conform

Art. 3.1(a) Safety EN 60950-1+A11+A1+A12 Test Report SKTSCE-130325-011 conform

Art. 3.1(b) EMC EN 301 489-1/-3

EN 55022, EN 55024

Test Report SKTECE-130326-043

Test Report SKTECE-130326-042 conform

Art. 3.2 Radio EN 300 330-1/-2 Test Report SKTRCE-130326-004 conform

The product shall be marked with the CE conformity marking and our Notified Body number as shown on the below

**CE 0678**

This Statement of Opinion is issued in accordance with Annex IV of the R&TTE Directive 1999/5/EC of 9th March, 1999 and is only valid in conjunction with the attached Annex.

## **RoHS**



We hereby guarantee that all products that Pointman will deliver directly or through any third party to you, do not contain Pb, Cd, Hg, Cr+6, PBB, PBDE to the best of our knowledge. Thereby our Products are in accordance with RoHS2 Directive

-Directive 2002/95/EC

-Directive 2005/717/EC

-Directive 2005/747/EC

-Directive 2011/65/EU