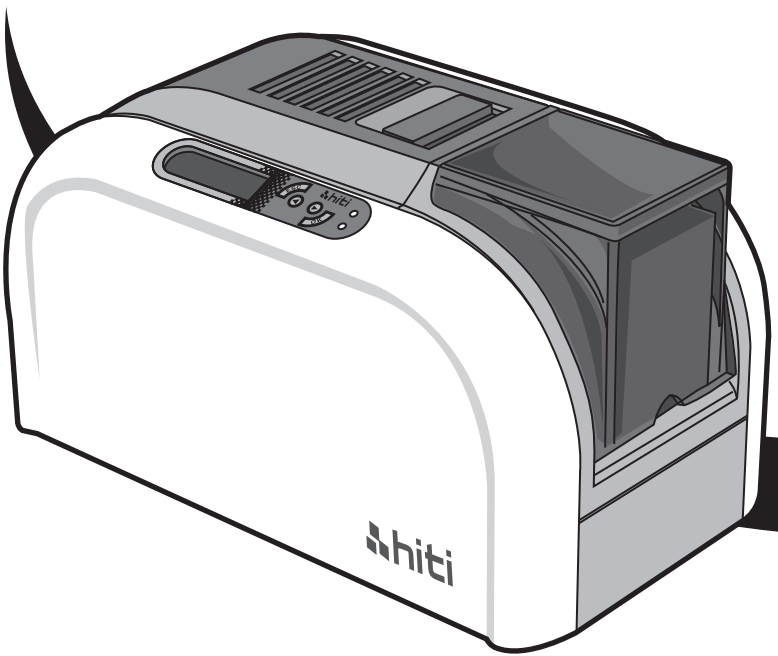
HiTi CS-200e & CS-220e

user manual



HiTi Digital, Inc.
www.hiti.com

English

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HiTi Digital, Inc. cannot be held liable for any errors that may be found in this manual, or for any loss or damage arising accidentally or as a result of dissemination or use of this manual.

All product information and photos herein are for illustrative and tutoring purposes only, with final specifications to be confirmed by purchase orders. For any questions, please kindly contact HiTi Digital, Inc. sites in the guide book

Trademarks acknowledgement

HiTi CS Card Printer is a trademark of HiTi Digital, Inc. product. All other trademarks belong to their respective holders.

Warranty

Refer to the warranty card supplied with your card printer package box for warranty terms, conditions and limitations.

Knowing your new printer

We thank you for choosing HiTi CS card printer, the beginning of our long term successful association with you together. With HiTi CS card printer, you will be able to enjoy easy operating, high quality plastic cards printing conveniently for personalized ID card, credit cards, membership cards and badges from various level of thickness and color style. Please ensure HiTi CS card printer to use the original consumables from HiTi Digital, Inc. For more details, visit our website at ***www.hiti.com*** .

Warranty Registration

Please do take time to register online at www.hiti.com and you will be rewarded with a special offer after registration is completed.

Getting ready to start

The main purpose of this user guide is to guide you to set up your printer step by step. Please take time to read through this carefully and complete the installation before start operating. This will save you time during installation and use, help you to understand more about this printer and its features. Should you discover any errors in this guide, please do help us by emailing us at info@hiti.com.

Assistant Icons

The following assistant icons will show up in this guide to indicate important information to be noticed.

Special warning notice

More in-depth information notice

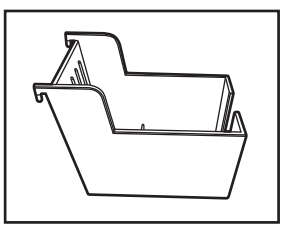
Chapter1. Getting ready

1.1 Checking box contents

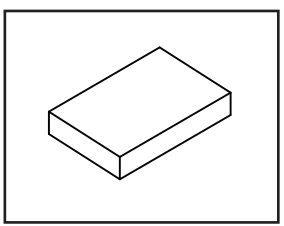
HiTi CS card printer is supplied with several accessories and please do take time to check it closely. The accessories contents list may vary depending from your region/location.

If any of below item is missing, please contact your nearest HiTi customer support facility of your local HiTi CS card printer distributor.

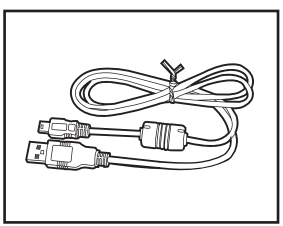
Accessories provide with your HiTi CS card printer:



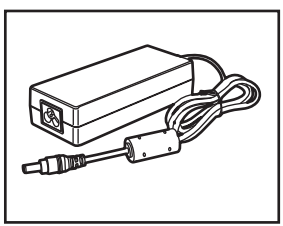
Card output hopper



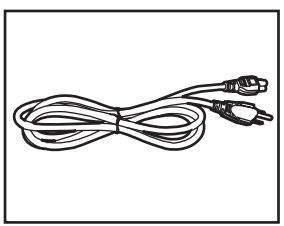
Weight module



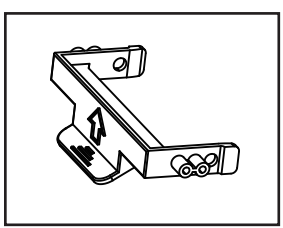
USB cable



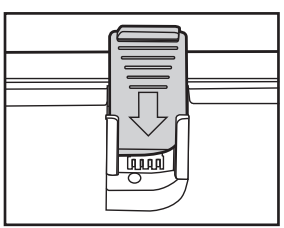
Power adaptor



Power cord



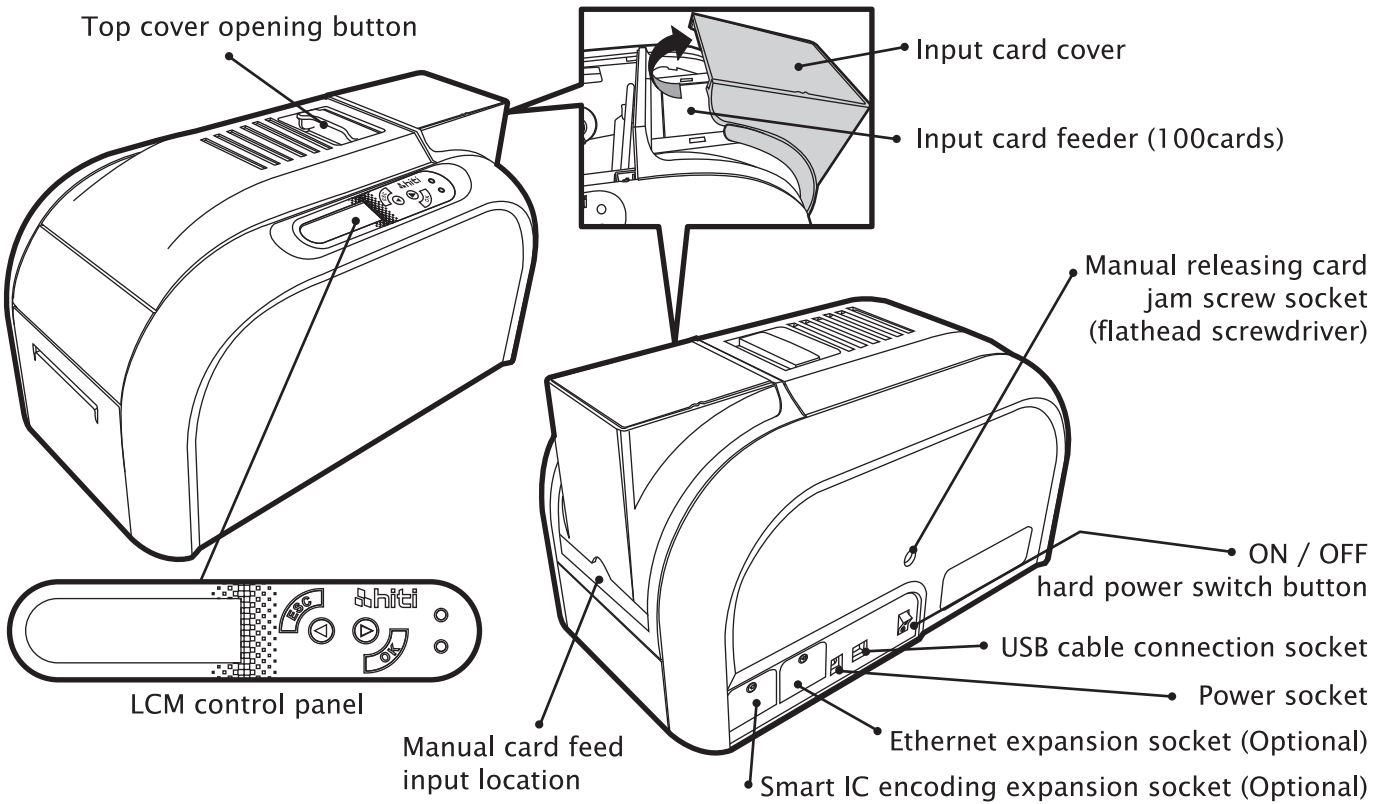
Cleaning roller holder

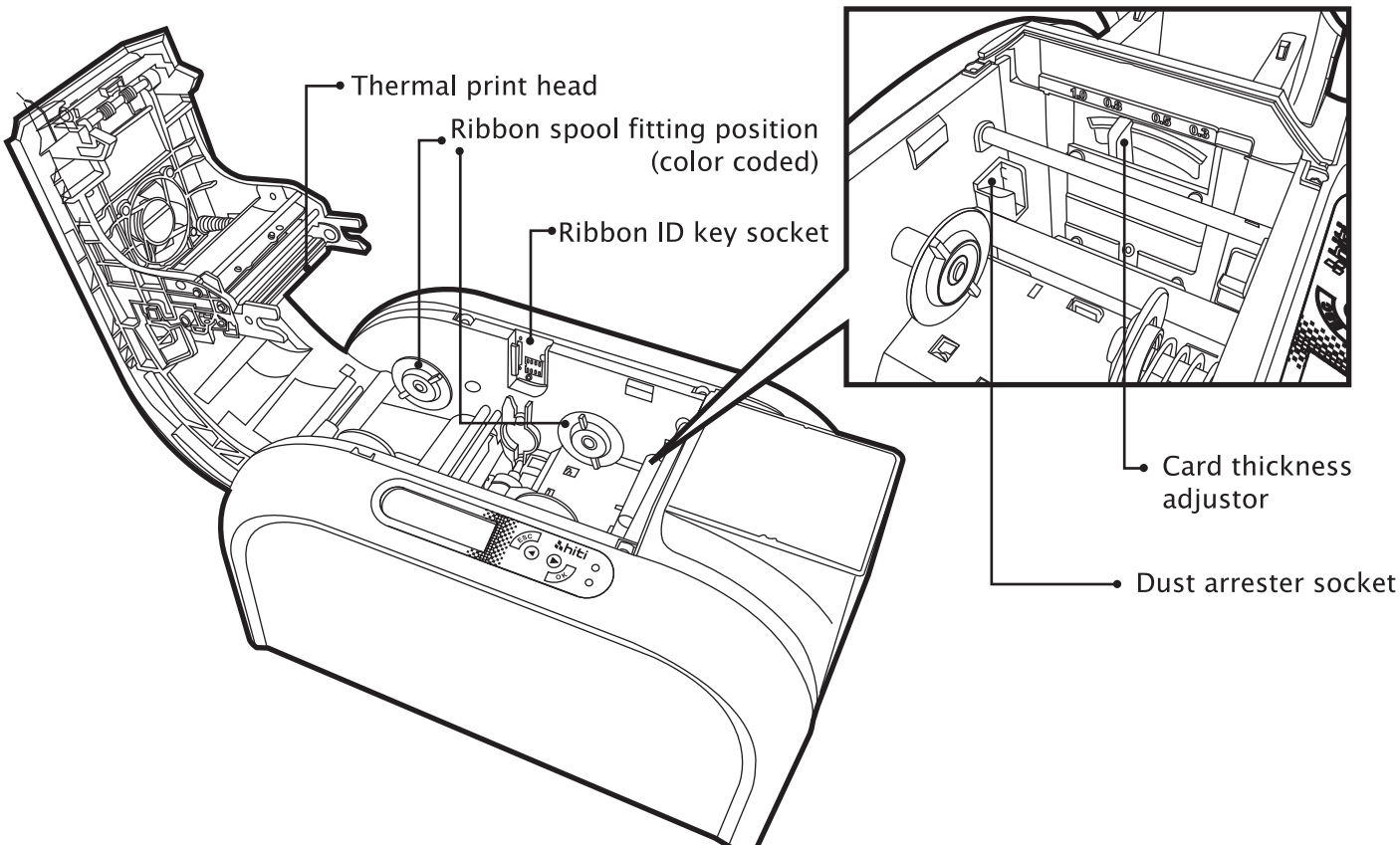


Monochrome Ribbon Chip

English

1.2 Appearance of the printer and key functions




Thermal print head
Ribbon spool fitting position
(color coded)
Ribbon ID key socket
Card thickness
adjustor
Dust arrester socket

English

1.3 Installation

1.3.1 Ribbon Installing

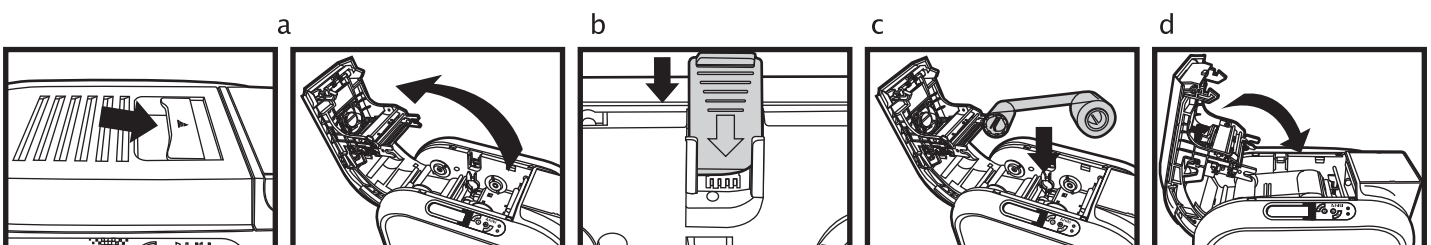
Using the original HiTi CS Card Printer Ribbon consumables will optimize your printer's performance and avoid causing damages to it. Use of non HiTi original consumables will void the manufacturer's warranty policy for the printer.

To optimize printing quality, please engage in printer cleaning every time when the ribbon is changed.

a. Open the top cover.
b. Place the ribbon ID key into ID key socket.
c. Insert the ribbon as shown.

Please ensure your ribbon format is corresponded to installed ribbon ID key's label.
Please make sure your ribbon film is facing top side during installation and also ensure the color of ribbon spool/core is matching to the ribbon adapter/holder.

d. Close the top cover slowly and press until a click sound is heard.



1.3.2 Printer Connecting (Power / USB / Modules)

Power

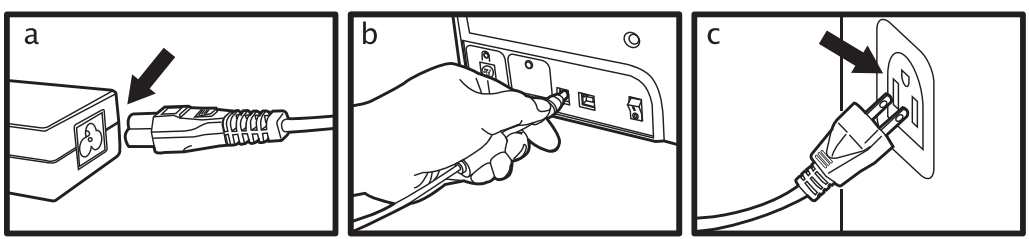
a. Connect power cable to power adaptor, then plug the power connector to printer's power socket
b. Plug the power plug to an earthed power socket

> ⚠ Please make sure the power plug is connected into a properly protected and earthed electrical source.

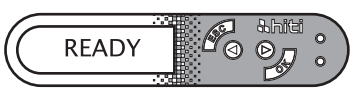
c. Switch ON from the ON/OFF button to power up the printer, then the LCM control panel should light up and display "ready" message which indicates the printer is under working condition.

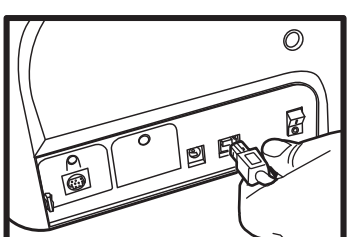
> ⚠ For your own safety, please make sure the power cable is always unplugged before attempting any service maintenance work.

d. Please power off the printer and unplug power cord before installing any of modules so that printer won't get damaged.



d





USB

> ⚠ Please make sure the print driver software is fully installed before connecting the USB cable to your printer device.

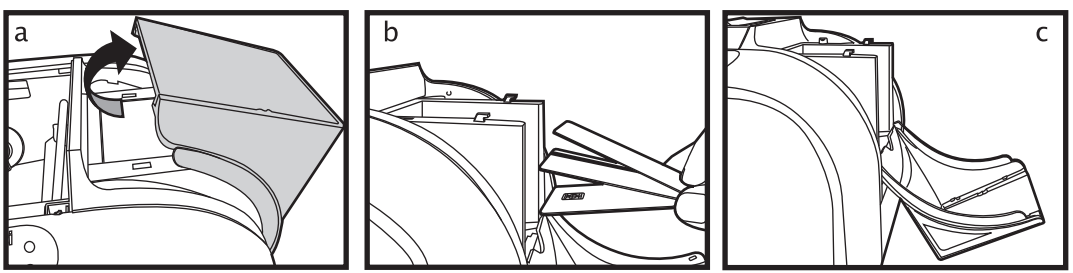
Refer to the print driver installation section of this user guide for more details, and follow the instruction carefully.

1.3.3 Card Placing

Loading (Automatic)

For optimum printing quality, please ensure all cards are CR-80 standard with ISO 7810 certified. Please do not touch the printable surface and not to use any dusty, damaged, folded or embossed cards in your printer.

a. Open input card cover.
b. Place the cards into input card feeder with positioned shown in the diagram.
c. Close the input card feed cover.



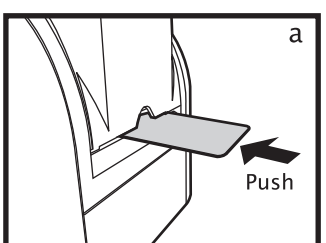
Card thickness adjustor



Loading (Manual queue jump)

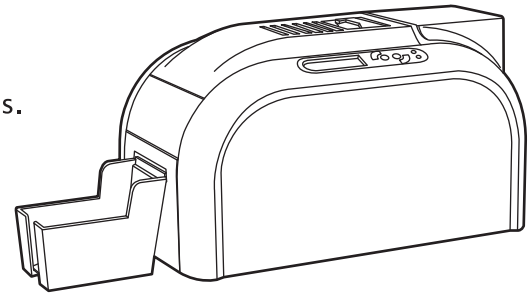
This feature is designed when a single manually queue jump in printing or encoding job is required during fully loaded cards are positioned in input card feeder.
Weight module is required for manual loading.

a. Insert card manually with location and positioned shown in the diagram.
b. Start printing or encoding command from PC.



Collecting

When the printing and/or encoding cycle is completed, the printed and/or encoded card will be returned into output hopper which is designed with a capacity of 50 x 0.8mm cards.



Adjusting

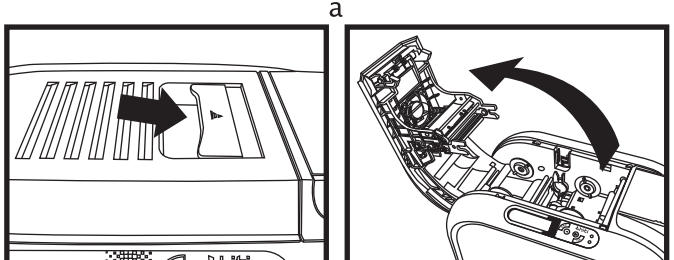
The printer has a manual adjustable card thickness mechanism which can be located inside the printer unit when the top cover is open. The thickness level accepts from 0.3mm to 1.0mm, and the factory setting is at 0.8mm.

Card thickness adjustor

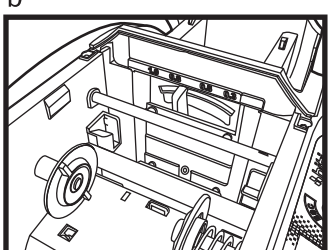


a. Open the top cover.
b. Adjust the thickness level by moving the lever from left to right to the preferred thickness setting.
c. Close the top cover.

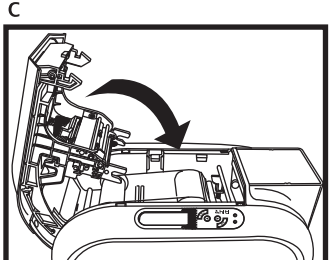
a



b



c



English

Chapter2. Start printing

2.1 Print driver installation

For your own safety, please make sure the power cable is always unplugged before attempting any service maintenance work.

This is an important step and requires special attention to configure the printer and driver correctly before start using it. Improper settings may result in substandard quality. It is essential to proceed installation process step by step, and changing any default settings only if when you are completely sure. We do offer an option to revert settings back to original factory settings at any time if any adjustment which you have made that does not correspond to the expected outcome results.

Please download the driver from HiTi website, www.hiti.com.
The file is in “Need Help?’ and select “Download Service” and then select “Driver“,
system and then model. Please follow the instruction step by step after executing the file.
If there is any problem, please contact technical service.

Please refer to printer connecting section for USB connecting procedure in this user guide for more details.
Some version of Microsoft Windows may require the user to have administration rights to install the driver.

English

2.2 Print settings

Before start using your HiTi card printer, it is very important to double check and/or change the default print driver settings. Those settings includes in the following list:

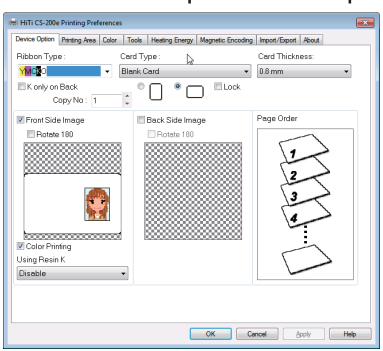
◆ Ribbon types ◆ Card types ◆ Card thickness ◆ Others

Please pay attention to the settings in printer driver and contact your local HiTi distributor or dealer for any advice and assistance needed before attempting any changes.

Those settings of driver can be accessed from the following instructions:

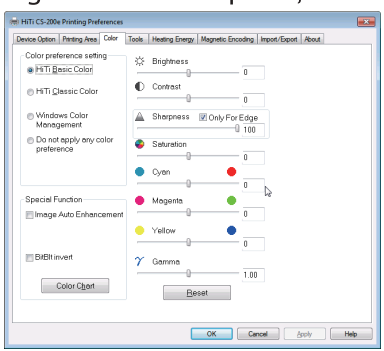
◆ From the Start button (located bottom-left on the Windows task bar), select “Printers and Faxes”
◆ Select your HiTi card printer and then follow by a click on right button of the mouse
◆ From the Printer menu, select “Printing Preference”
◆ A pop up configuration screen for HiTi card printer appears
◆ The main menu tabs include Device Option, Printing Area, Color, Tools, Heating Energy, Magnetic Encoding, Import/Export & About

The most frequent use in print settings are Device Option, Color and Tools.



Device Option Tab

- Ribbon type
- Card type
- Card thickness
- Front & back image
- Page order
- Using Resin K



Color Tab

- Color preference setting
- Special function
- Color adjustment



Tools Tab

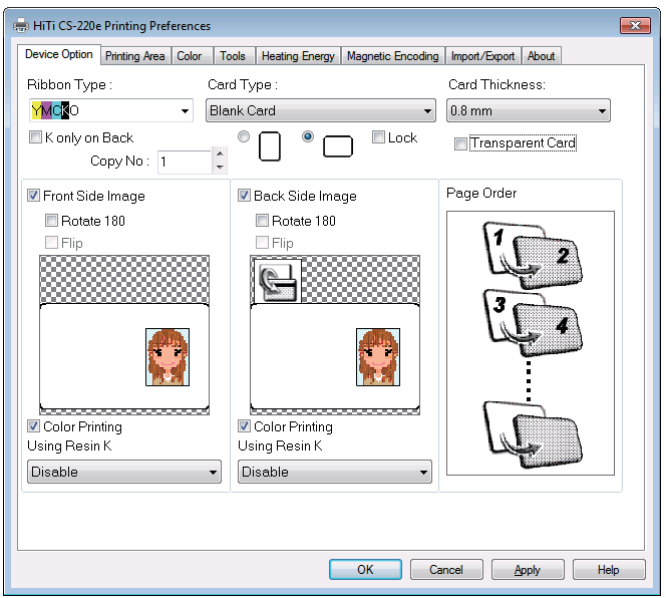
- Printer position adjuster
- Cleaning tool option
- Maintenance info
- Advance option
- Heating energy option

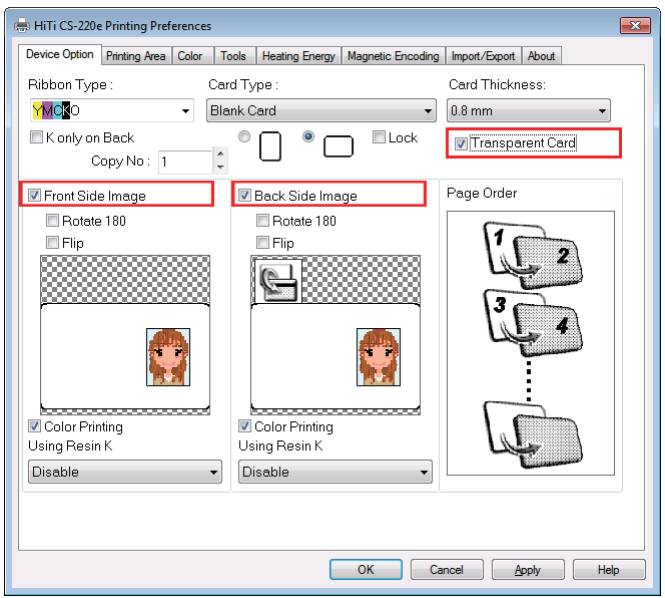
2.3 Transparent card settings (new feature for CS-220e only)

CS-220e has a new feature to print transparent card.

To enable this feature, you have to check on "Transparent Card".

When the "Transparent card" is checked, the "Flip" checkbox will be enabled to be available.





Chapter3. Printer maintenance

3.1 General warranty information notice announcement

HiTi CS card printer is professional designed to provide you a long term service duty with minimum regular maintenance required. Therefore please do comply with the instructions given in below to ensure your printer unit is covered by warranty condition.

*** IT'S IMPORTANT TO STAY COVERED BY YOUR WARRANTY!! ***

All the manufacturer's warranty conditions are subject to strict adherence to the regular routine servicing and maintenance instructions, and also printer cleaning cycles.

Any failure of the following required servicing and maintenance job duties mentioned in this chapter may void the print head warranty.

HiTi CS card printer accepts no any other liability what so ever where it has been any single failure to perform required servicing and maintenance job duties on the printer. It is common to know that the print head is an extremely sensitive as well as a wearing and tearing component. Therefore the life expectancy is heavily depending on the presence of solids, dust or liquids in the environment, either on the print head or cards. Every operating user must take all necessary precautions to use clean cards in the printer unit. The frequency and quality of the servicing and maintenance job duties will not only extend the print head's life expectancy, but also maintain the output printed quality. It is very important to all users must comply with the servicing and maintenance instructions which described within this chapter.

Use of non HiTi original consumables/ribbons may affect the quality and reliability of print job, low quality printed output and may also affect the printer's physical functions. The manufacturer's warranty does not cover any physical damages, quality problems and print head warranty by using non HiTi original consumables/ribbons.

3.2 Routine / Regular printer cleaning

Proactive reminder of cleaning is given by the driver, and it is required to go with the instruction, or else the warranty on TPH may be invalid.

Item Description	Cleaning required after
Color / Mono Ribbon	400 cards
Magnetic Encoding	400 cards

3.2.1 Using cleaning card

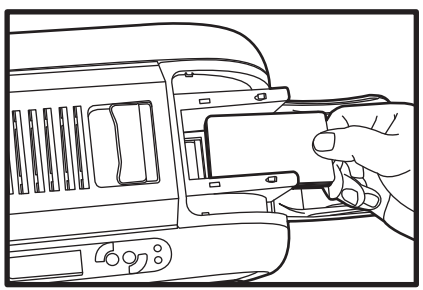
Each pack/box of HiTi original consumables should contain one single piece of cleaning card.

a. Remove any remaining cards from input card feeder.

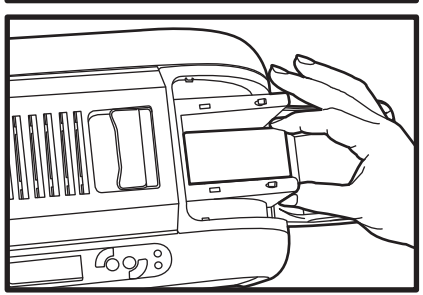
b. Remove pilled protection film from the cleaning card and then place it in the feeder.

c. Go to print settings in the driver, and access ***Printing Preference***. Choose tab ***Tools***, then apply ***Cleaning Tool***.

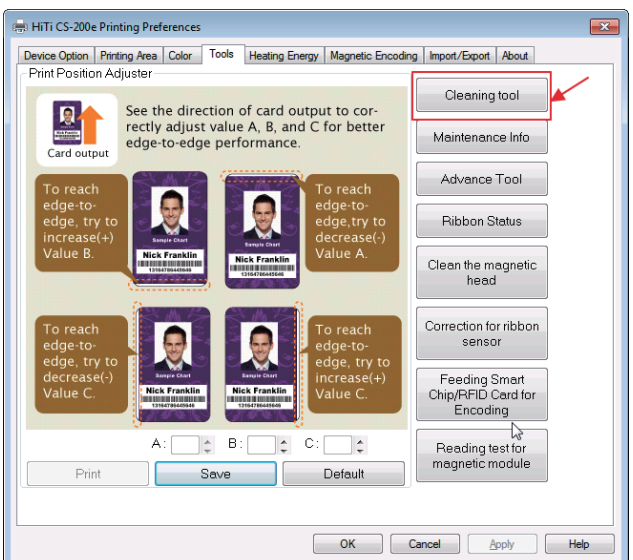
a



b

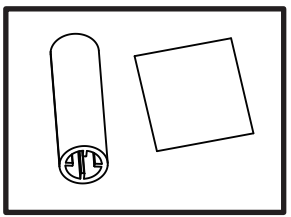


c

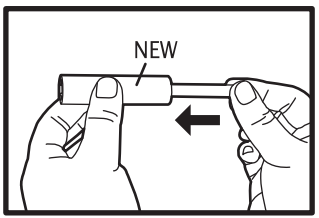


3.2.2 Using cleaning roller

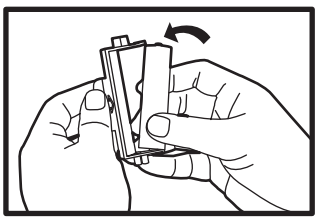
HiTi ribbon box should contain a roller and a adhesive cleaning paper



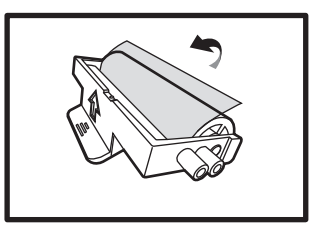
Take out the roller and adhesive cleaning paper from the ribbon pack and assemble the cleaning paper onto the roller.
The instruction of assemble the cleaning sticker on the cleaning roll is presented in our website under:



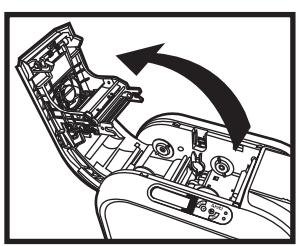
Take out metal shaft from printer accessory bag and put it into the cleaning roller.



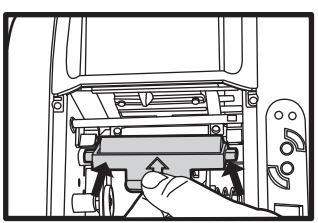
Assemble the cleaning roller to the holder (from the accessory bag).



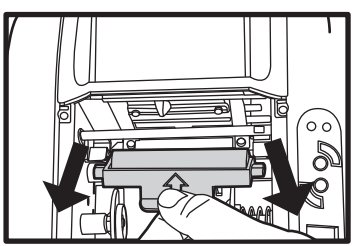
Remove adhesive film on the cleaning roller prior to clean.



Open printer cover gently.



Place assemble cleaning roller into the printer and execute printer cleaning by following the instruction on driver.



Take out the used cleaning roller from the printer once done the cleaning.

English

Chapter4. Help Diagnosis

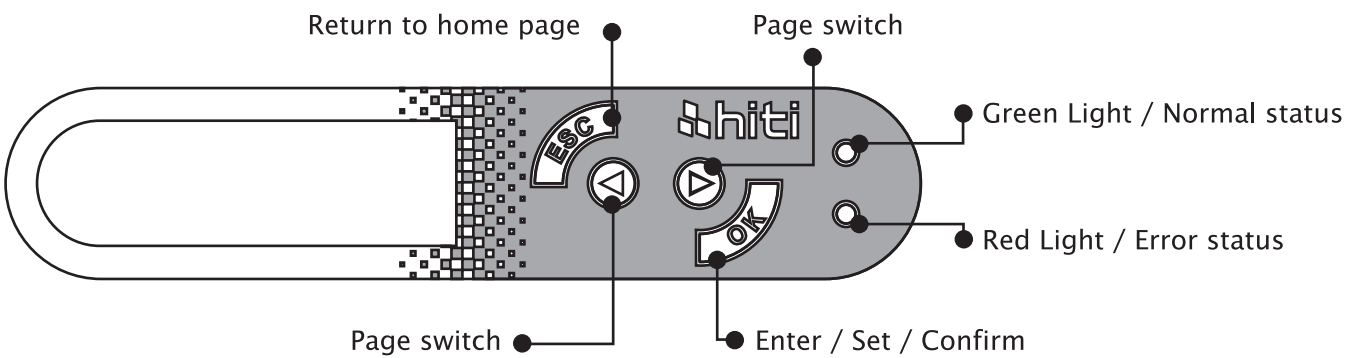
4.1 Warnings / Error messages and diagnosis

HiTi CS card printer is designed to get user involvement down to a minimum level. It is advised to gain some familiarity with basic warning messages knowledge during the operation.

4.1.1 LCM control panel

Basic descriptions

The printer is equipped with a LCD display with four buttons to give the access to printer menu and two LED lights to show conditional status. All printing status and warning/error messages will be displayed in this LCD screen.



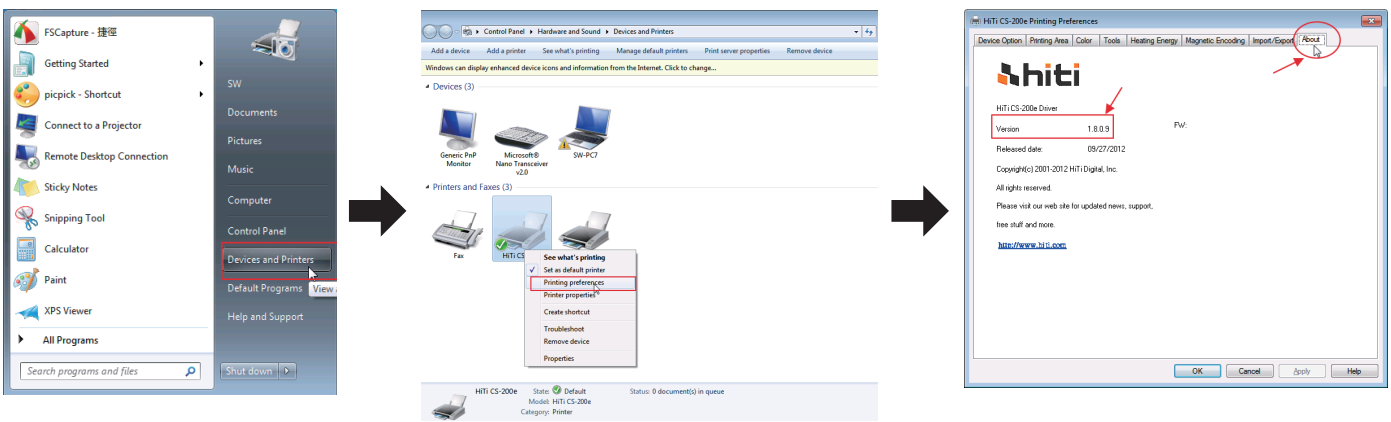
4.1.2 Control panel warning messages

PMessages Displayed	Description	Solutions
Cover Open	Top cover door is opened	Close the top cover door.
Flipper Cover Open	Flipper cover door is opened	Close the flipper cover door.
Ribbon Missing	Ribbon is not installed	Install ribbon into printer.
Ribbon Mismatch	Installed ribbon does not match with ribbon IC chip ID	Check ribbon type and install the corresponded IC ribbon.
Ribbon Type Error	Unsupported ribbon type	Check ribbon's region code with matching printer's region code.
Ribbon Out	Failing to searching ribbon	Reinstall the ribbon again with correct installation procedure.
	End of ribbon usage	Reinstall a new ribbon.
Print Fail	Fail to start printing process	Check the ribbon to see if it's snapped.
Card Out	Card runs out	Place more cards with card's weight module.
	Inconsistency between card thickness adjustor and card used	Get the setting of adjustor and card used consistent
	Adsorption force among cards	Move cards apart and then arrange them to input hopper for retry
Card Jam	Jammed during operation	Follow the LCM screen for releasing card jam instructions.
Cam Error	Internal mechanical cam platen error	Contact your local service center for professional advice.
Flipper Error	Flipper unable to perform its duty	Contact your local service center for professional advice.

4.2 Identify installed driver software version

You can easily indentify your driver version by accessing from your printer properties menu. It is essential to keep your printer driver to be the latest version which always published from official HiTi web site.

Checking your driver version can be accessed from the following instructions:



4.3 Troubleshooting

4.3.1 Printing problems

Nothing in action	◆ Check the printer driver to see if it is truly, well installed. ◆ Check the printer power supply and USB cable ◆ Check the ribbon and card ◆ Print a demo chart
Printed a blank card	◆ Check the ribbon ◆ Check value A setting of “Printing Area” in the driver. To define value A as default to retry. ◆ Check the card to see if it carters to CR-80 specification
Partial or incorrect printing	◆ Check the printer settings ◆ Check the interface cable and ribbon ◆ Make sue the printer’s cleaning roller is clean ◆ Check the printing card is clean ◆ Check the print head
Printed some small blemishes	◆ The card surface may be dirty or work on cleaning via dust arrestor ◆ Print head clogged ◆ Check the roller of dust arrester to see if there’s need to change a new one
Printed horizontal white lines	◆ Check the ribbon is fitted correctly ◆ Check the print head is dirty or damaged
Printed vertical white lines	◆ TPH may be impaired. Contact the distributor or dealer nearest to you for help.
Printed blurred images	◆ Check the ribbon to see if is fitted correctly ◆ Check the print head to see if there’s need to do the cleaning ◆ Check the cleaning roller of dust arrester to see if there’s need to change a new one. Check the card is compatible or not

4.3.2 Releasing from card jams

Please remove the jammed card by the following instruction displayed on LCM control panel of the printer before continuing the printing job.

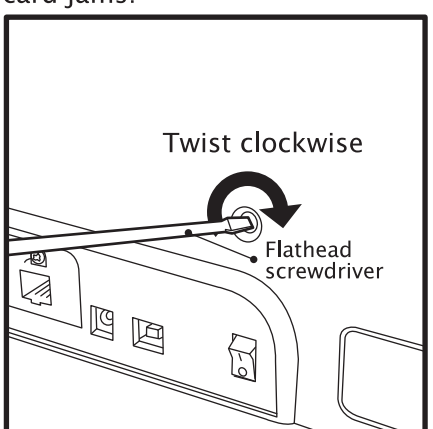
- Open the printer cover door
- Remove the ribbon
- Follow the instruction on the LCM control panel with three options: Auto removal, Semi-auto removal and Manual removal

> During semi-auto removal and manual removal process, please do not put your hands into the card printer.

You can also perform the following steps to prevent card jams:

- Check the card thickness settings is correctly adjusted from the printer driver option and thickness gauge
- Check the card thickness is fitted under specified specification in this manual
- Check the cards are flat in horizontal position
- Check the cards are not stuck together, and shuffle cards is required before loading
- There is a paper weight module in the accessory bag that the user will need to use it when there are less than 10 cards in the card holder.
  Place the paper weight module on the top of 10 or less cards, it will help card feeding when increasing the weight on top.

Illustration for manual removal card jams:



4.4 Technical support

If you have come across any difficulties in configuring and/or operating your HiTi card printer, please read this manual carefully.

If you are unable to manage solving your problems, you can obtain further information or help from your local authorized distributor or reseller.

For any unresolved technical problems, if you don't know your local distributor or reseller. You can visit our website www.hiti.com for contacting information and send us your questions.

We will be more than happy to assist you at anytime. It is important for you to provide those following information at anytime during your contact for servicing help:

- Your printer model and serial number
- The configuration and operating system which you are using
- A detail descriptions of the incidents/problems which has occurred
- A detail descriptions of the steps which you have already taken to solve the incidents/problems

If you need any additional information or technical help, you can obtain those information from our website www.hiti.com which offers you the ability to download the latest printer driver, firmware, user manual, and FAQ (Frequent Ask Questions) to maintaining your HiTi card printer.

English

Appendix A: Technical Specifications

HiTi CS-200e Card Printer	
General Technical Features	◆ Color printing module ◆ 300dpi print head ◆ USB connection ◆ Ethernet TCP/IP connection as an optional module (Availability to be updated) ◆ 64MB RAM / 1MB Flash ◆ 50 cards output hopper (0.8mm/30mil) ◆ 4 buttons and 2 LED control panel
Printing Modes	◆ Color sublimation and monochrome thermal transfer ◆ HiTi color technology enhanced ◆ Edge to edge printing ◆ A.I smart ribbon saving for monochrome printing
Performance (various from card design & settings)	◆ Color: 1 side (YMCKO) = around 21 sec (under lab testing environment) ◆ Monochrome: 1 side = 4.5 sec
System Request	◆ IBM-PC or compatible, Windows XP/Vista, Pentium R class 133MHz above ◆ Computer with 128MB RAM or higher, 100MB free hard disk space or higher
Supported Platforms	◆ Windows XP/Vista/Windows 7/8/10 (32 & 64 bits) ◆ For Mac and Linux support, please contact Hiti Customer Service for detail.
Supplied Software	◆ HiTi CardDésirée CS for designing and printing cards, compatible with Windows XP/Vista/7/8/10 and connects to MS Excel databases

Ribbon Types	◆ Full panel YMCKO color ribbon: 400prints/roll ◆ 1/2 panel YMCKO color ribbon: 560prints/roll ◆ Monochrome Resin Black :1000prints/roll
Options (Easy Add Modules)	◆ 400 cards high capacity input hopper ◆ Flipper module ◆ Magnetic encoding module (ISO 7811 HiCo/LoCo or JIS2 magnetic strip encoder) ◆ Smart IC encoding module (ISO 7816-2 / PC/SC, EMV 2000-1) ◆ Contactless/RFID encoding module (ISO 14443A, B, ISO 15693, Mifare, DesFire, HID iCLASS) ◆ Ethernet connection module
Warranty	◆ Vary from region to region, please consult with your local distributor or reseller for details
General Information	◆ Card types: PVC card ◆ Card format: ISO CR-80 / ISO 7810 (53.98mm x 85.60mm) ◆ Card thickness: *0.3mm ~1.0mm (10mil ~ 40mil); dual-sided printing workable from 0.5mm to 1.0mm (20mil ~ 40mil) *0.3mm = 0.25mm round off to 1st decimal place ◆ Input card feeder capacity: 100 cards (0.8mm/30mil) ◆ Output hopper capacity: 50 cards (0.8mm/30mil) ◆ Printer dimensions: 197.8mm (W) x 354mm (L) x 204mm (H) ◆ Weight: 4.9kg ◆ Connections: USB port, Ethernet TCP/IP port as an option (Ethernet 10/100 Mbps) ◆ Power supply: AC input: 100~240V~2.5A, 50~60Hz / DC output: 24V = 4.16A ◆ Operating environment: +15ºC to +32ºC / 20% to 85% RH (without condensation) ◆ Storage environment: -20ºC to +60ºC / 20% to 90%RH (without condensation) ◆ Operating ventilation: open cooled air area

Appendix B FCC Compliance Statement

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

2.IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements,no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

3. FCC INFORMATION:
The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph:

The 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 instruction, may cause harmful interference to radio communication. However, there is no grantee that interference will not occur in a particular installation.If this equipment dose 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

--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.

The user should not modify or change this equipment without written approval
Form HiTi Digital, Inc. Modification could void authority to use this equipment.