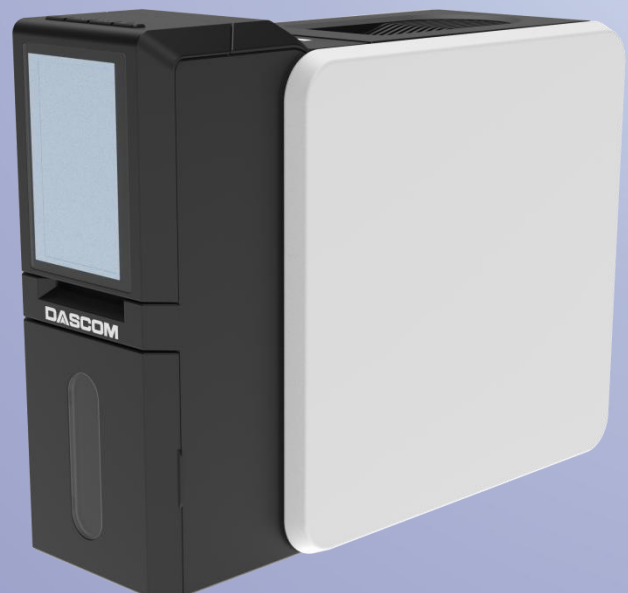




User Manual

DC-4100 Card Printer



Important Safety Instructions (English)

Read the following instructions thoroughly before starting up your printer.

- The device and power supply must all times be easily accessible.
- Never carry out maintenance or repair work yourself. Always contact a Dascom qualified service technician.
- Keep this User Manual in a place which is easily accessible at all times.
- Place the printer on a solid and level base for reliable operation.
- Never place the printer in the vicinity of inflammable gas or explosive substances.
- Ensure the printer is connected to a socket with the correct voltage.
- Always disconnect the printer from power source before opening the device to perform maintenance work or remedy errors.
- Do not expose the printer to high temperature, direct sunlight, or dust.
- Keep all liquids away from the printer.
- Protect the printer from shock, impact and vibration.
- Make sure that both printer and computer are switched off before connecting the data cable.
- The print head will become very hot during printing; avoid contact with the print head after printing has finished.
- Do not perform any operation or action in any way other than those provided in this manual. When in doubt, contact your Dascom dealer or customer support.

Wichtige Sicherheitshinweise (German)

Lesen Sie bitte diese Sicherheitshinweise durch, bevor Sie den Drucker in Betrieb nehmen.

- Das Gerät und die Netzsteckdose müssen jeder Zeit leicht zugänglich sein.
- Führen Sie Wartungsarbeiten und Reparaturen keinesfalls selbst aus, sondern verständigen Sie immer einen qualifizierten Servicetechniker.
- Bewahren Sie diese Dokumentation an einem jederzeit zugänglichen Ort auf.
- Den Drucker auf stabilem und ebenem Untergrund so aufstellen, dass er nicht zu Boden fallen kann.
- Stellen Sie den Drucker keinesfalls in der Nähe von leicht entzündlichen Gasen oder explosiven Stoffen auf.
- Den Drucker nur an eine Steckdose mit der richtigen Spannung anschließen.
- Wenn Sie den Drucker vom Netz trennen wollen, den Drucker ausschalten und immer den Netzstecker an der Steckdose ziehen.
- Den Drucker weder hohen Temperaturen noch direktem Sonnenlicht und Staub aussetzen.
- Keine Flüssigkeiten mit dem Drucker in Berührung bringen.
- Den Drucker keinen Erschütterungen, Stößen oder Vibrationen aussetzen.
- Sicherstellen, dass der Drucker und der Computer ausgeschaltet sind, bevor das Datenkabel angeschlossen wird.
- Der Druckkopf wird während des Druckens heiß. Vor dem Berühren deshalb einige Zeit abkühlen lassen.
- Weichen Sie bei der Bedienung des Druckers nicht von den Anweisungen in der Dokumentation ab. Bei Unklarheiten wenden Sie sich bitte an Ihren Händler oder Ihren Kundendienst.

Consignes importantes de sécurité (French)

Lire attentivement les instructions suivantes avant de mettre l'imprimante en service.

- Le dispositif et la prise principale doivent toujours être accessibles facilement.
- Ne jamais effectuer soi-même les travaux d'entretien et de réparations. Contacter toujours un dépanneur qualifié.
- Placer l'imprimante sur un support stable de façon à ce qu'elle ne puisse pas tomber.
- Ne jamais placer l'imprimante à proximité de sources de gaz aisément inflammables ou de substances explosives.
- Ne connecter l'imprimante à une prise que lorsque la tension est correcte.
- Pour déconnecter l'imprimante de l'alimentation principale, mettre l'imprimante hors tension et toujours débrancher le connecteur secteur de la prise murale.
- Ne pas exposer l'imprimante à des températures élevées, à la lumière directe du soleil ou à la poussière.
- Ne pas mettre l'imprimante en contact avec des liquides.
- Ne pas exposer l'imprimante à des chocs, impacts ou vibrations.
- S'assurer que l'imprimante et l'ordinateur sont hors tension avant de connecter le câble de données.
- La tête d'impression est brûlante pendant l'impression. C'est pourquoi laissez-la refroidir quelques instants avant d'y toucher.
- N'exécutez aucune opération ni action d'une autre manière que celle indiquée dans ce manuel. En cas de doute, veuillez contacter votre distributeur ou service après-vente.

Indicazioni di sicurezza importanti (Italian)

Prima di mettere in funzione la stampante, leggere attentamente le seguenti indicazioni.

- Il dispositivo e la presa di corrente devono essere sempre facilmente accessibili.
- Non eseguire mai da sé gli interventi di manutenzione e riparazione, ma rivolgersi sempre a un tecnico di assistenza qualificato.
- Conservare le presenti istruzioni per l'uso in un luogo sempre accessibile.
- Collocare la stampante su una superficie stabile, per evitare che cada a terra.
- Non collocare la stampante in prossimità di gas facilmente infiammabili o di sostanze esplosive.
- Collegare la stampante a una presa di corrente con tensione adeguata.
- Per scollegare la stampante dalla rete di alimentazione, spegnere la stampante e disinserire sempre il connettore di rete dalla presa.
- Non esporre la stampante ad elevate temperature né alla luce solare diretta e alla polvere.
- Evitare il contatto della stampante con liquidi.
- Non esporre la stampante a colpi, scosse o vibrazioni.
- Verificare che la stampante e il computer siano spenti prima di collegare il cavo di trasmissione dati.
- Durante la stampa, la testina si surriscalda notevolmente. Prima di toccarla, se necessario opportuno quindi lasciarla raffreddare qualche istante.
- Non eseguire alcuna operazione o azione se non nella maniera descritta nel presente manuale. In caso di dubbio, contattare il rivenditore o dalla società incaricata dell'assistenza.

Instrucciones de seguridad importantes(Spanish)

Lea las siguientes instrucciones con esmero antes de poner la impresora en servicio.

- El dispositivo y la toma de corriente deben estar ubicados de forma que sea fácil acceder a ellos.
- Nunca lleve a cabo trabajos de mantenimiento o reparación Ud. mismo, sino consulte a un técnico de servicio calificado.
- Guarde las presentes instrucciones de servicio en un lugar de fácil acceso en cualquier momento.
- Ponga la impresora sobre un superficie estable de manera que no pueda caer al suelo.
- Nunca coloque la impresora en la vecindad de gases inflamables o sustancias explosivas.
- Asegure conectar la impresora sólo a un enchufe con un voltaje correcto.
- Cuando quiera desconectar la impresora de la red, apague la impresora y siempre hale de la clavija de alimentación del enchufe nunca del cable.
- No exponga la impresora a temperaturas altas, a la luz solar directa y al polvo.
- No ponga la impresora en contacto con fluidos.
- Nunca exponga la impresora a sacudidas, choques o vibraciones.
- Asegúrese de que la impresora y el ordenador estén apagados antes de conectar el cable de datos.
- La cabeza de impresión se pone muy caliente durante la impresión. Por lo tanto, Déjela enfriarse
- algún tiempo antes de tocarla.
- No permita que se realice cualquier operación o acción de una forma diferente a lo que se señala en el manual. En caso de duda, póngase en contacto con su comerciante o con su servicio post-venta.

Правила по технике безопасности. (Russian)

Прочитайте, пожалуйста, инструкцию по технике безопасности перед включением в работу принтера.

- Устройство и розетка должны быть всегда легко доступна.
- Не выполняйте технические работы и ремонт техники самостоятельно, но сообщайте о неисправностях квалифицированным сервисным техникам.
- Данная инструкция должна быть всегда доступна каждому пользователю.
- Установите принтер на ровном и стабильном месте так, чтобы он не смог упасть на пол.
- Ни в коем случае не ставьте принтер вблизи легко воспламеняющихся газов и взрывчатых веществ.
- Включайте принтер в розетку только с соответствующим напряжением.
- Если Вы хотите отключить принтер от напряжения, сначала выключите принтер сам и затем выньте штекер из розетки.
- Берегите принтер от нагревания, от попадания на него прямых солнечных лучей и пыли.
- Не допускайте попадания жидкости на принтер.
- Нельзя подвергать принтер тряске, ударам и вибрации.
- Убедитесь, что принтер и компьютер выключены, только после этого соедините принтер с компьютером.
- Печатающая головка нагревается во время работы принтера. Поэтому подождите какое-то время, прежде чем дотронуться до нее.
- Пользуйтесь принтером так, как это написано в документации. Если у Вас возникают неясности, обращайтесь с вопросами к Вашим продавцам или в сервисный центр.

Instruções Importantes sobre Segurança (Portuguese)

Leia as instruções de segurança antes de usar a impressora.

- A impressora e a tomada devem ser facilmente em todos os momentos acessíveis.
- Consulte sempre um técnico qualificado para executar uma reparação .
- Coloque a impressora sobre uma base sólida e nivelada, para que ela não sofra quedas.
- Jamais instale a impressora nas proximidades de lugares onde haja gás inflamável ou substâncias explosivas.
- Assegure-se de conectar a impressora à tomada elétrica com a voltagem apropriada.
- Quando desligar a impressora da rede, desligue sempre a impressora e retire o cabo da tomada.
- Não exponha a impressora a temperaturas altas ou luz solar direta.
- Não aproxime substâncias líquidas da impressora.
- Proteja a impressora de choques, impactos e vibrações.
- Desligue a impressora e o computador antes de conectar o cabo da rede.
- A cabeça da impressora pode ficar muito quente . Portanto, espere algum tempo antes de tocá-la.
- Não faça nenhuma operação ou ação além das recomendadas neste manual. Em caso de dúvida, contate seu revendedor ou companhia de serviço.

Önemli Güvenlik Talimatları (Turkish)

Lütfen, yazıcıyı işleme geçirmeden önce bu güvenlik talimatlarını bütünüyle dikkatle okuyun.

- Cihaz ve elektrik prizinin her zaman kolayca erişilebilir olması gerekir.
- Bakım ve tamir çalışmalarını kesinlikle ve hiçbir surette kendi başınıza yapmayın; her zaman kalifiye bir uzman servis-teknisyenine haber verin.
- Yazıcıyı, üzerinden yere düşmesi mümkün olmayacak sabit ve düz bir zemine yerleştirin.
- Yazıcıyı kesinlikle ve hiçbir surette kolayca yanabilecek gaz veya patlayıcı maddeler içeren nesnelerin yakınına koymayın.
- Yazıcı akım kablosunu sadece doğru gerilime sahip bir prize takın.
- Yazıcıyı şebeke ağından ayırmak istediğinizde, yazıcıyı kapatın ve ağ-fişini her zaman prizden çıkartın.
- Yazıcıyı ne yüksek ısı ne de doğrudan güneş ışığına ve toza mâruz kalan mekânlarda bulundurun.
- Yazıcı hiçbir sıvı maddeyle temasta olmamalıdır.
- Yazıcı hiçbir sarsıntıya, darbeye veya titreşime mâruz kalmamalıdır.
- Veri kablosu bağlanmadan önce hem yazıcının hem de bilgisayarın kapalı olduklarından emin olmalısınız.
- Yazıcının başı basma esnasında yüksek ısıya ulaşıyor. Bu yüzden lütfen dokunmadan önce kısa süre soğumasını bekleyin.
- Yazıcının işletimi ve kullanımında bu dokümantasyondaki talimatların hiç dışına çıkmayın. Sorunlu görünen hususlarda lütfen imâlatçınıza veya müşteri hizmetleri servisimize başvurun.

TRADEMARK ACKNOWLEDGEMENTS

“Windows”, “Windows 7”, “Windows 8”, “Windows 10”, “Windows XP” and “Windows Vista” are trademarks of Microsoft Corporation.

All other product names and company names appearing in this manual are the registered trademarks or trademarks of their respective holders.

Approvals



This device fulfils the European standards requirements by complying with the Directive relating to electromagnetic compatibility and relating to low-voltage electrical equipment. Furthermore, it fulfils the requirements for RoHS and RED if applicable.

Conformity with the above-mentioned Directives is indicated by the CE symbol attached to the device.

Note: Conformity may be affected by:

- using interface cables not complying with the specifications
- non-observance of important instructions in the operator's manual
- installing components not approved for this device by the manufacturer
- unauthorized manipulation



Dieses Gerät erfüllt die Anforderungen der Europäischen Normen durch Einhaltung der Richtlinien bezüglich der Elektromagnetischen Verträglichkeit sowie bezüglich Elektrischer Betriebsmittel mit Niederspannung. Des Weiteren werden die Anforderungen bezüglich RoHS und falls anwendbar RED erfüllt.

Die Konformität zu den oben angeführten Richtlinien ist durch das am Gerät angebrachte CE-Zeichen gekennzeichnet.

Hinweis: Die Konformität kann beeinflusst werden durch:

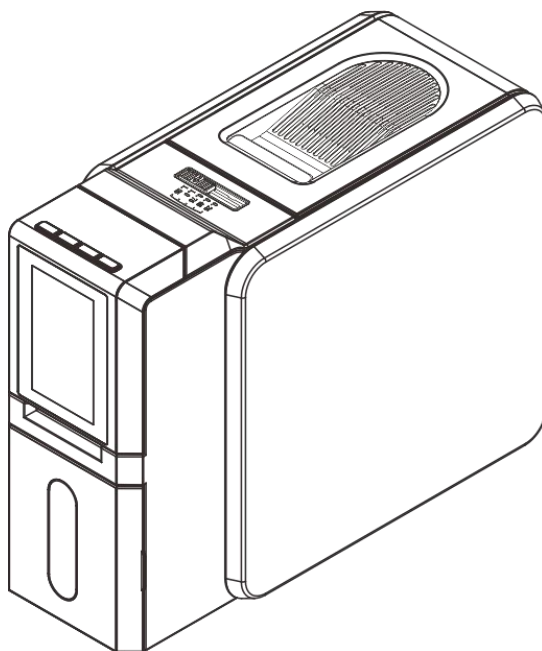
- Benutzung von nicht spezifizierten Schnittstellen
- Nichtbeachtung wichtiger Hinweise der Bedienungsanleitung
- Ersetzen von Bauteilen, die nicht vom Hersteller für dieses Gerät freigegeben wurden
- Eingriffe durch Unbefugte



This device complies with the requirements of the United Kingdom (UK) legislation of Electrical Safety Regulations, Electromagnetic Compatibility Regulations, if applicable the Radio Regulations and the Restriction of the Hazardous Substances in Electrical and Electronic Equipment Regulations.

About This Manual

This manual provides information that describes the basic operation, enabling safe and correct procedures to the operators of DC-4100 Printer.



Symbol Description

The symbols in this manual are identified by their level of importance, as defined below. Read the following carefully before handling the product.



CAUTION: Provides information that must be observed to prevent damage to the equipment or data loss .



NOTE: Advises you of information that is essential to complete a task.



CAUTION: Keep your body away from moving part.



CAUTION: Hot ! Do not touch the parts till the printer has been switch off in half hour, otherwise it will hurt your fingers.

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CHAPTER 1 INTRODUCTION

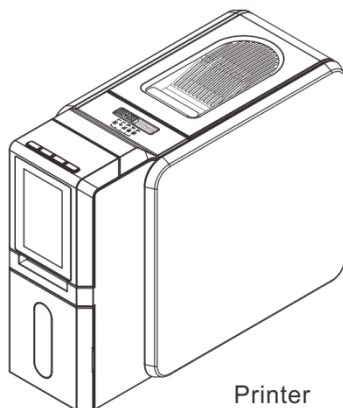
Thank you for choosing Dascom DC-4100 card printer. You can print high-quality cards of different colors and styles with this printer. The printer should use the consumables and accessories provided by Dascom. For more details, please visit our website www.dascom.com.

1.1 Unpacking

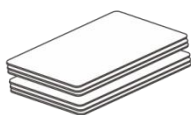
Open the package, take out the printer and remove the protect material. Check if the parts and accessories in the box are complete as the following picture. If found any damage. Please contact the carrier and notify your authorized Dascom reseller to realize the steps to be taken.



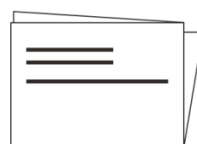
When repairing the printer, you must provide the complete original package (outer crate, wedge and package). If send back the printer without original package, or the accessories are damaged in transit, the warranty of accessories will be invalid. The new packing charge for the printer will be charged by yourself.



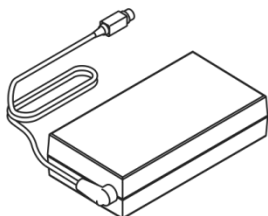
Printer



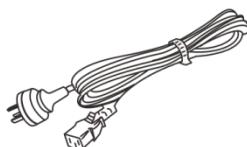
Card (25PCS)



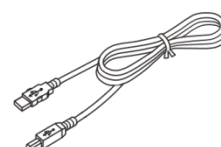
Installation guide



Power adapter



Power cord



USB cable



The package contents vary with different customized order requirements.

Package Contents:

Standard	Printer	1 unit
	Power cord	1 piece
	USB cable	1 piece
	Power adapter	1 piece
	Installation Guide	1 piece
	Card	25 pieces

1.2 Operating the Printer Safely

The following precautions must be observed to assure safe operation of your printer. Do not do anything that is not described in this manual. Doing so could cause an unexpected failure. The manufacturer is not responsible for any problems caused by incorrect operation of the printer.

Installation location	Do not install the printer in a damp or dusty location.
	Do not install the printer near flammable or explosive materials or a heater, stove or any other device that produces heat. Do not place the printer near volatile combustible materials such as combustible materials.
	Place the printer away from walls to maintain air flow. Also, maintain at least 30 cm (12 inches) of open space above the printer.
	Blocking vents may cause the printer to overheat and fail prematurely.
	Do not install printer on an unstable table, on a slant, or any place where there is excessive vibration.
	Do not install the printer in a location susceptible to rapid fluctuations in temperature.
	Do not install the printer in a location exposed to direct sunlight.
Power supply	Use a dedicated power cable and do not use an extension cord with multiple outlets.
	Be sure to remove any dust from the plug and electrical outlet.
	Humidity produces a micro-current on the surface causing overheating.
	Do not damage or modify the Power Cable. Also, do not place heavy objects, pull, or bend power cord excessively.
	Do not plug in or unplug the Power Cable if your hands are wet.
	Ensure a ground wire is connected.
	When connecting the ground wire, note the following cautions.
	Recommended connections for ground wires
	Electrical outlet ground terminal
	Ground terminals installed as type A, B, or C
	A copper rod 65 cm (25.6 inches) or longer buried in the ground.
	Not permitted for ground wires
Handling	Gas piping (risk of fire or explosion)
	Water pipes or taps (water pipes that include plastic piping cannot act as a ground. However, if a water pipe is configured to act as a ground, then connection of a ground wire is permitted.)
	Telephone line ground wires or lightning conductors (danger of high current flow in the event of a lightning strike.)
	Be sure to turn off power and unplug the plug from electrical outlet before moving the printer.
	Pull on the plug or cable when unplugging it from an electrical outlet.
	Do not use an under-rated extension cord.
Handling	Do not use flammable sprays near the printer.
	Do not touch anything inside the printer unless specified in this manual.
	Do not place heavy items on the printer and do not lean on the printer.
	While the printer is operating, do not turn off the power, unplug the power cable, or look inside (open) the printer.

**WARNING**

The lower part of the Top Access Cover, the printer internal heat roller section, and the thermal head section become very hot. Ensure you do not touch these three locations.



- The cooling fan is always running for cooling inside the printer. This is not a malfunction.
- Contact your reseller if there is a current leak.
- The printer may cause static, flickering or interrupt reception of televisions or radios if they are too close to the printer.
- The lower part of cover top, internal heating platen and printer head may produce high temperature, please don't touch these three parts.



Under the following conditions images on cards may deteriorate or cards may warp after printing:

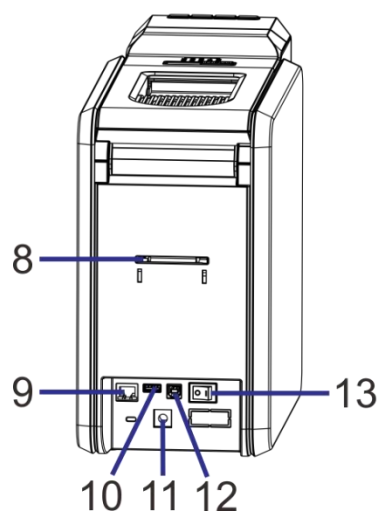
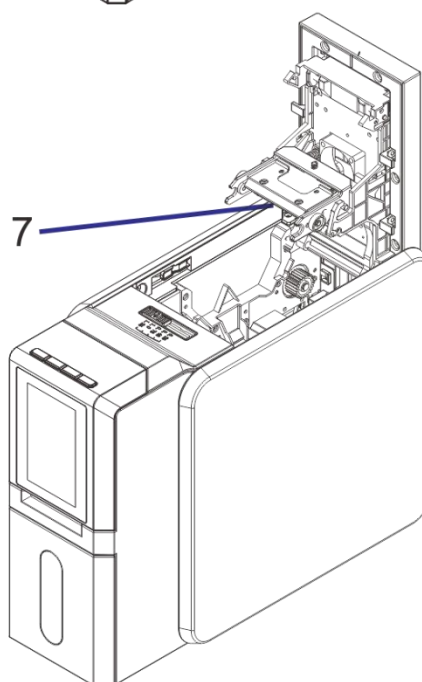
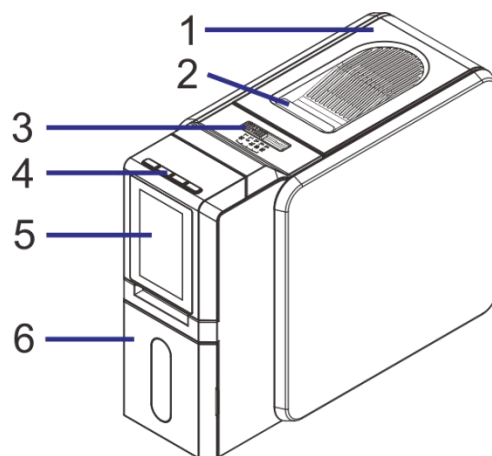
- The surface of the card is in contact for an extended period with a vinyl card holder or synthetic leather or other material that contains a plasticizer.
- The surface of the card is exposed to direct sunlight for an extended period.
- The card is repeatedly rubbed against a hard object such as a key.
- The faces of two cards are in contact for an extended period.
- The card is kept for an extended period in a very hot location such as a car parked in the sun.
- The card is bent, or used with excessive force.

If a card with a magnetic strip is placed near a magnetic source, the data on the strip could become corrupted.

Additionally, if an IC chip card is bent, or used with excessive force, the IC chip may be damaged.

1.3 Printer Components

1.3.1 Component and function

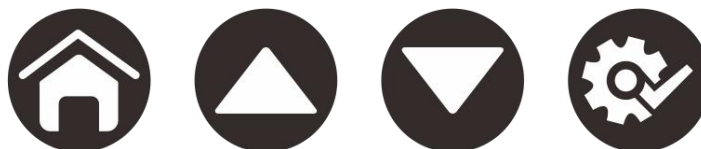


No.	Component Name	Function
1	Top cover	Protects the print head and the internal components, and reduce noise. Open to replace the ribbon.
2	Cover open button	Pull the button up to open the top cover.
3	Gap slider	According to the card thickness, move the slider so that its arrow points to the corresponding scale.
4	Keys	Includes the 【Menu/Exit】 , 【Up】 , 【Down】 , 【Set】
5	Front cover	Opens to load cards. Max. 100 pieces of 0.76mm thickness cards can be placed.
	Display	Shows the printer status. Displays navigation messages in configuration.
6	Lower cover	Open the cover to take out the finished cards.
7	Thermal print head	Core component of the printer.
8	Rear Card feed/eject slot	The cards Load or discharge from the slot.
9	Ethernet port	Connect to the printer via Ethernet port.
10	USB Hub port	Connect to the printer via USB Hub port.
11	Power socket	Used to connect Power Cable.
12	USB port	Connect to the printer via USB port.
13	Power switch	Turns power on and off.

1.3.2 Control Panel

■ Buttons

There are four buttons:



Logo	Name	Function
	【Menu/Exit】 key	Enter or exit current setup
	【Set】 key	Confirm current setting
	【Up/Down】 key	Choose between or navigate settings

■ Buzzer

The following combinations of buzzer show different statuses of the printer.

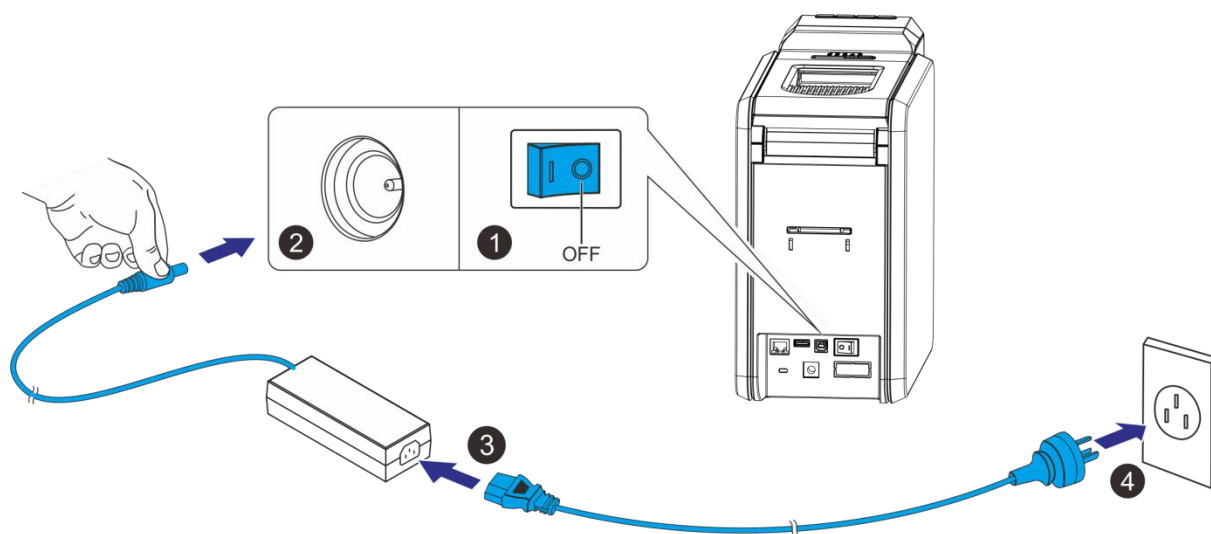
Printer Status	Buzzer
Initiating	/
Heating	
Ready	/
Menu setup	/
Printing	/
Warning	Buzz constantly
Error	Buzz constantly

■ LCD Display

User can view the status of printer.

1.4 Attaching Power

- (1) Make sure the printer and the computer are powered off.
- (2) Connect the power adapter to the printer.
- (3) Connect the power cord to the power adapter.
- (4) Connect the power cord to the power socket.



■ Power on and power off

Press the power switch: "I", provides power to the printer.

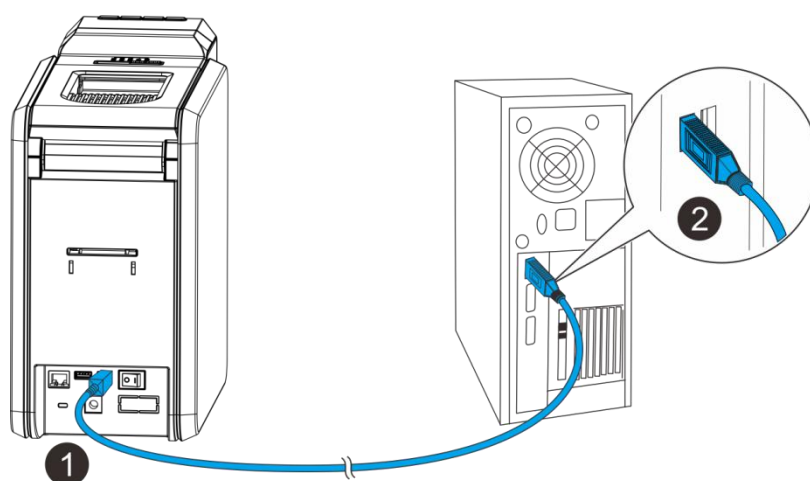
Press the power switch: "O", turns the Printers power off.

1.5 Connecting to Computer

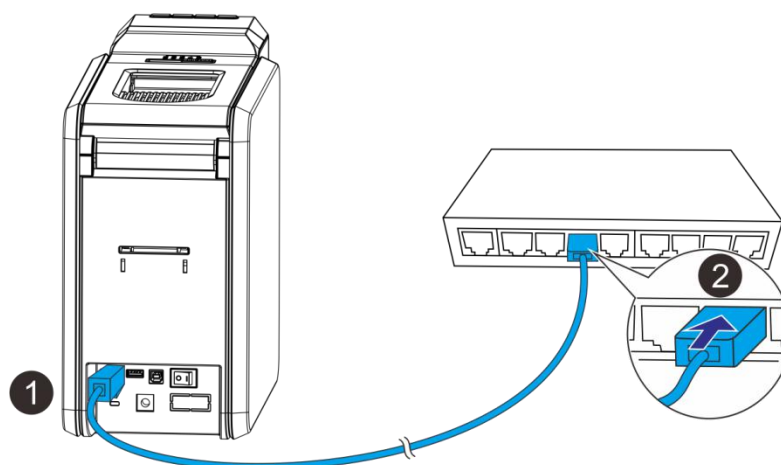
The standard interfaces (connections) for this printer are USB and Ethernet. All connections are located at the back of the printer.

- (1) Ensure your printer is switch off.
- (2) Insert the interface cable into the corresponding port.
- (3) Connect the other end of the interface cable to the host computer or route.

■ USB



■ Ethernet



1.6 Installing Windows Driver

The driver is the connection and transformation platform between the printer and the computer operating system to achieve the interactive processing of the information. User can set up relevant settings, get print status and etc. via driver.

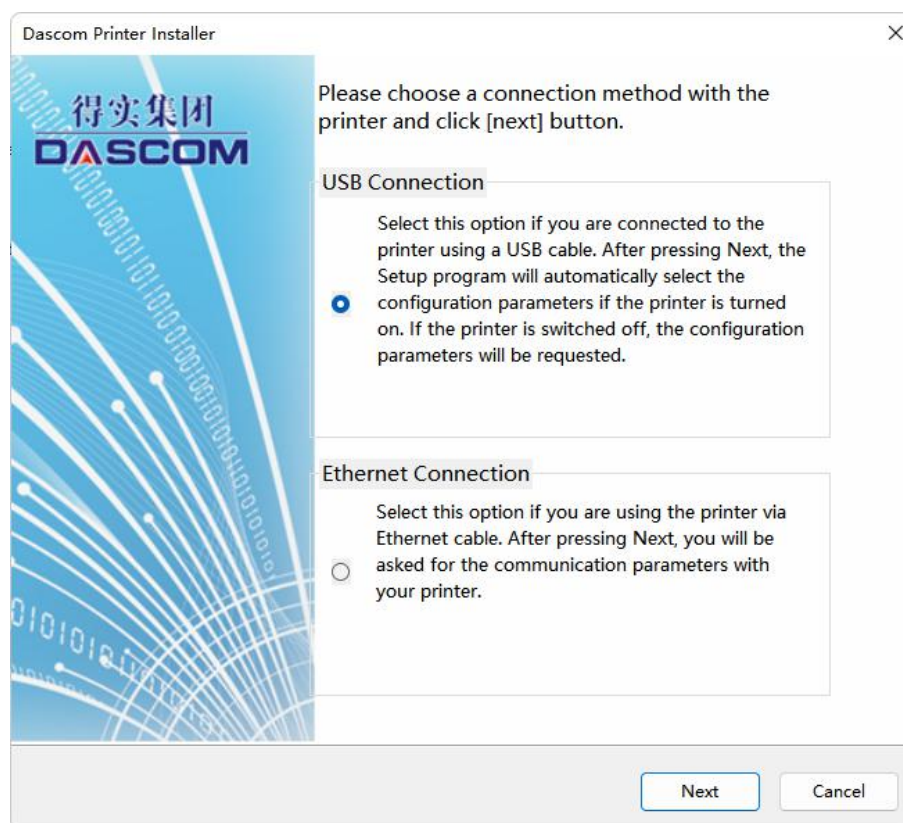
The latest Windows printer drivers can be downloaded from our web:

<https://www.dascom.com/downloads.html>

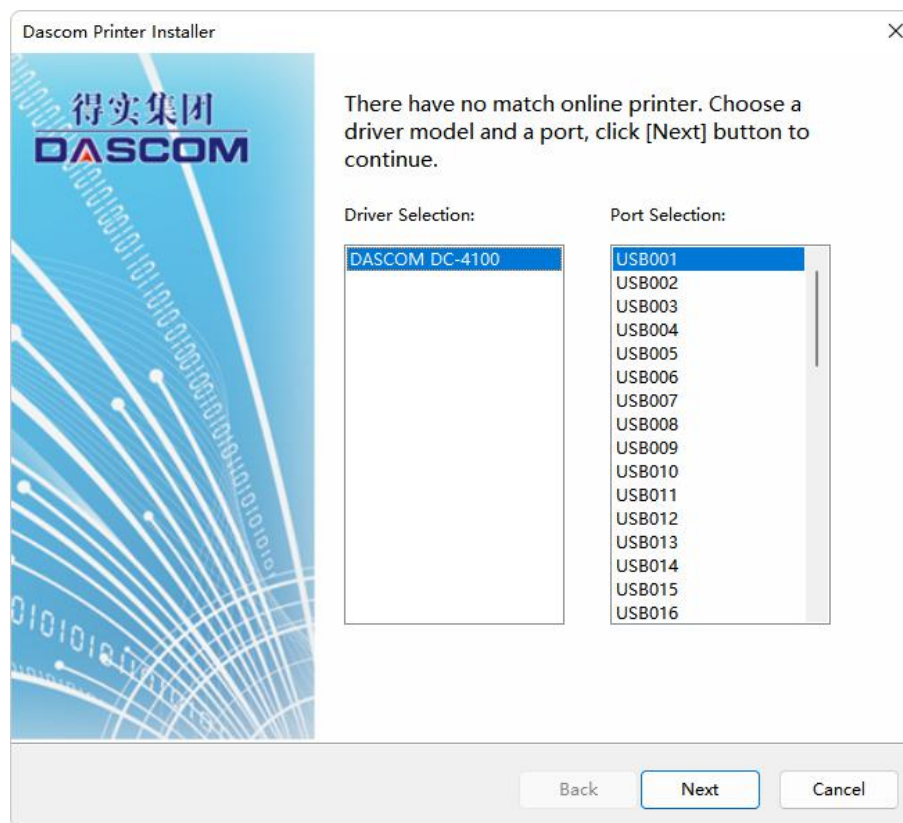
1.6.1 Installing Windows Driver via USB

Connect the USB cable to the computer, from the folder that you unzipped the driver files to select "install.exe" . The program will guide you to finish the whole installation.

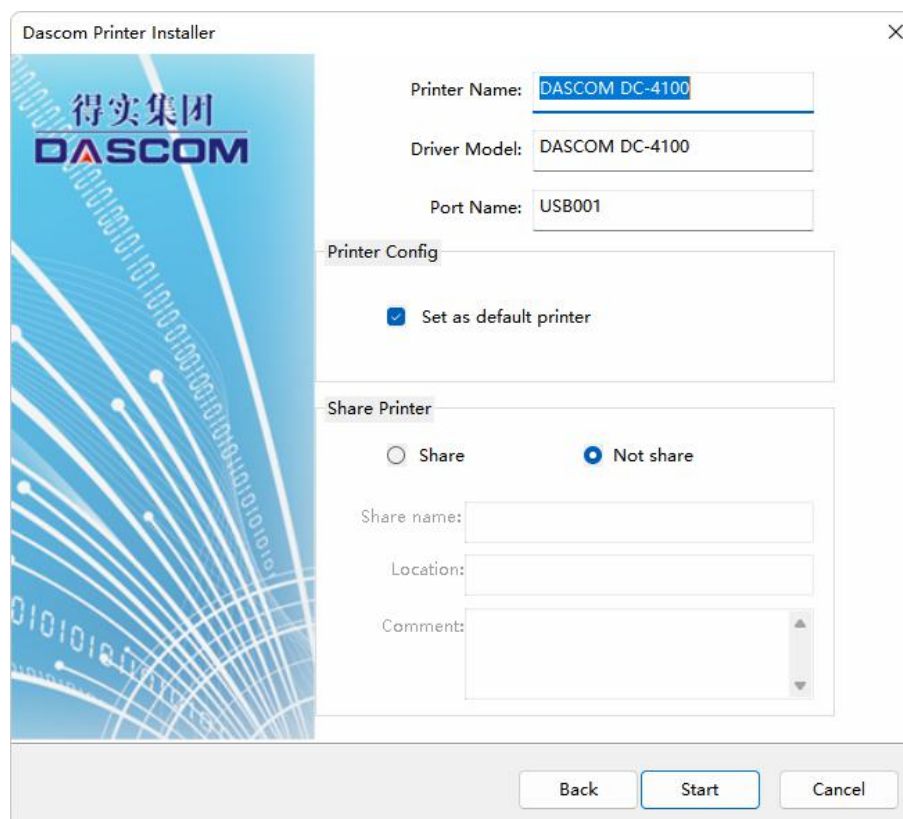
- (1) Select USB connection. Click "Next".



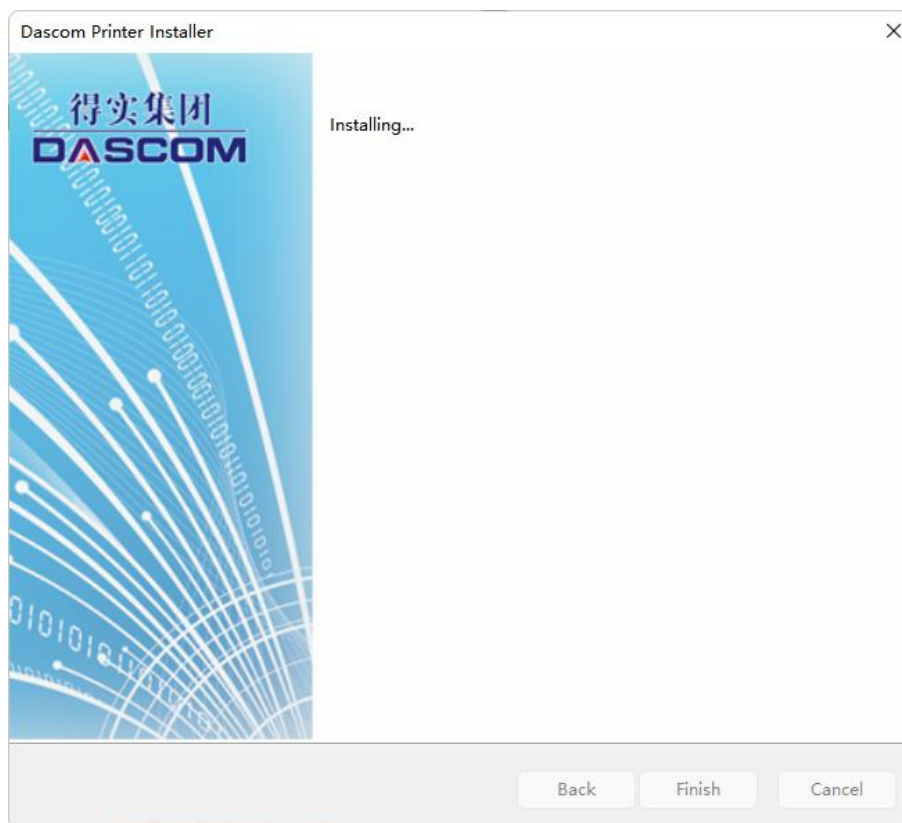
(2) Select the Driver Selection and appropriate Port Selection, click “Next”.



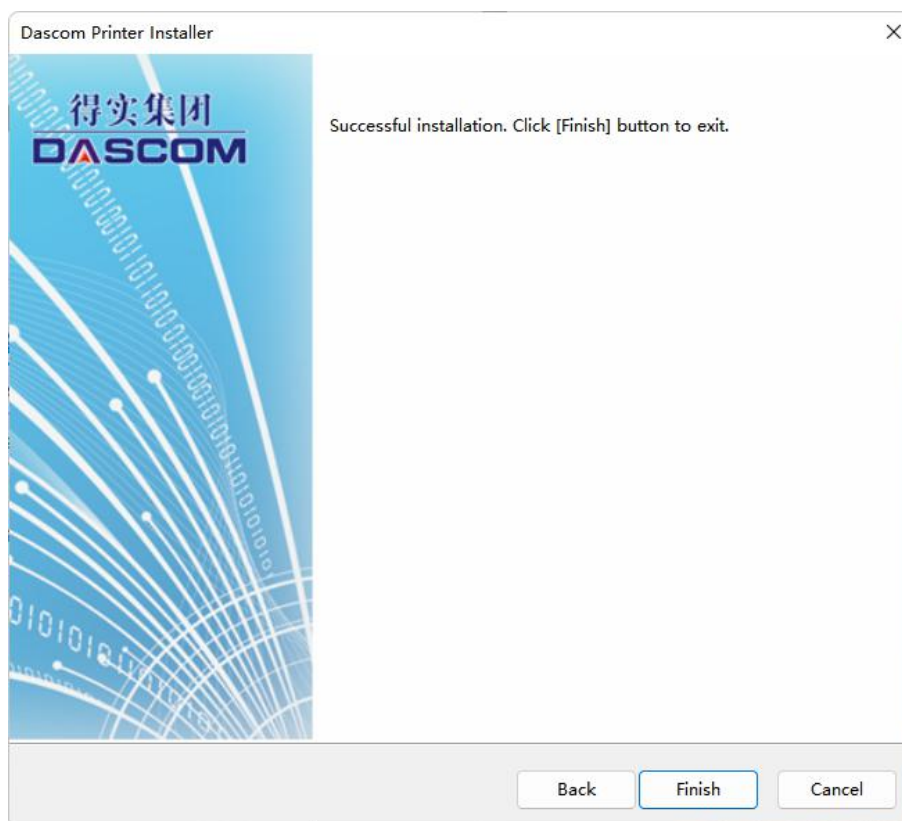
(3) Set up the Printer name or go with the default, click “Start” to begin the process.



(4) Waiting for the installation.



(5) When the Driver has been successfully installed, click the “Finish” button.



1.6.2 Installing Windows Driver via Ethernet

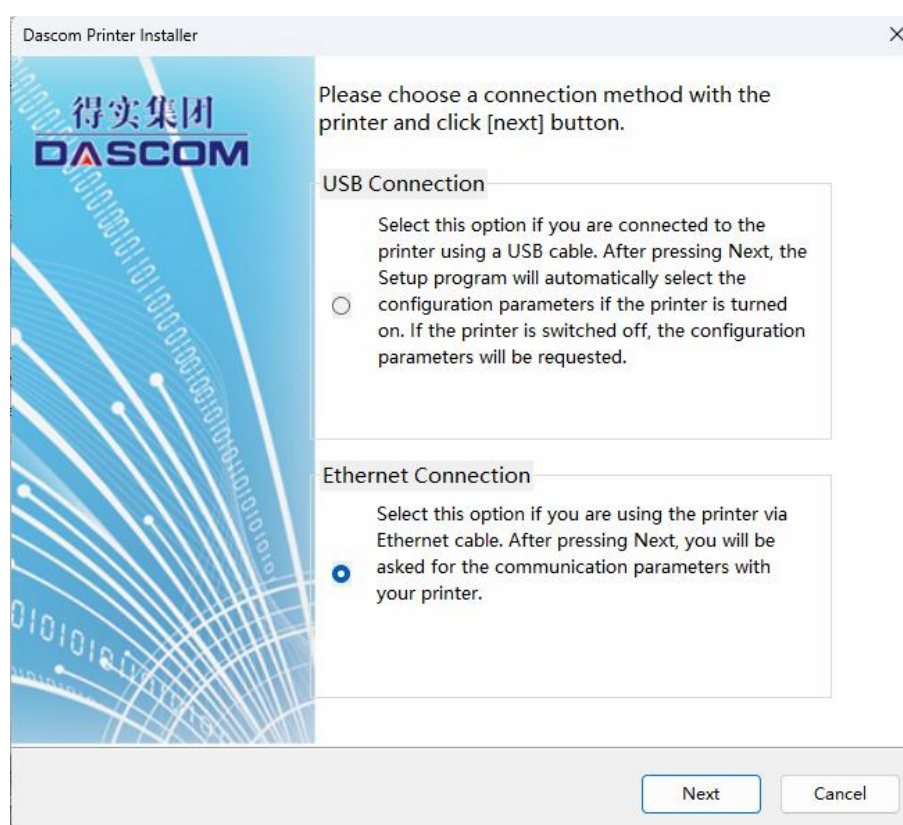
Connect the Ethernet cord from the Printer to an available port on a Ethernet Switch or Router. Turn On the Printer, from the folder that you unzipped the driver files to select “install.exe” .

The Install program will guide you through the necessary steps to finish the whole installation.

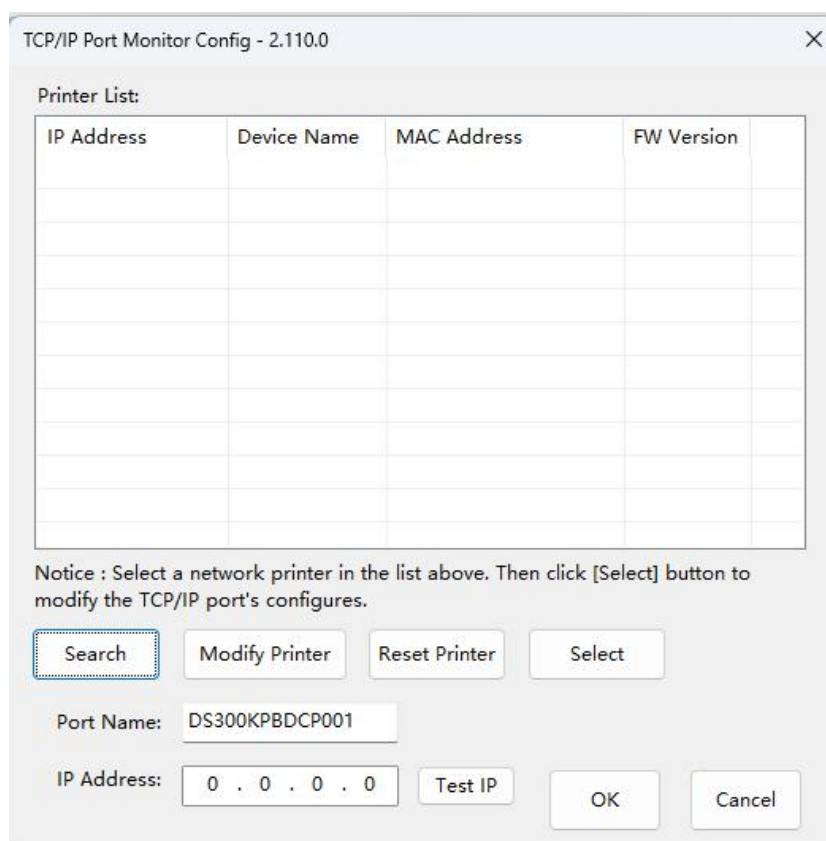


Ensure the printer and the computer are on the same LAN before installation. Switch on the printer. Please follow the installer carefully. Some Windows versions require users to have administrator privileges to install the driver.

(1) Select Ethernet connection. Click “Next”.



- (2) To search for the network attached Printer, click “Search” button.



TCP/IP Port Monitor Config - 2.110.0

Printer List:

IP Address	Device Name	MAC Address	FW Version

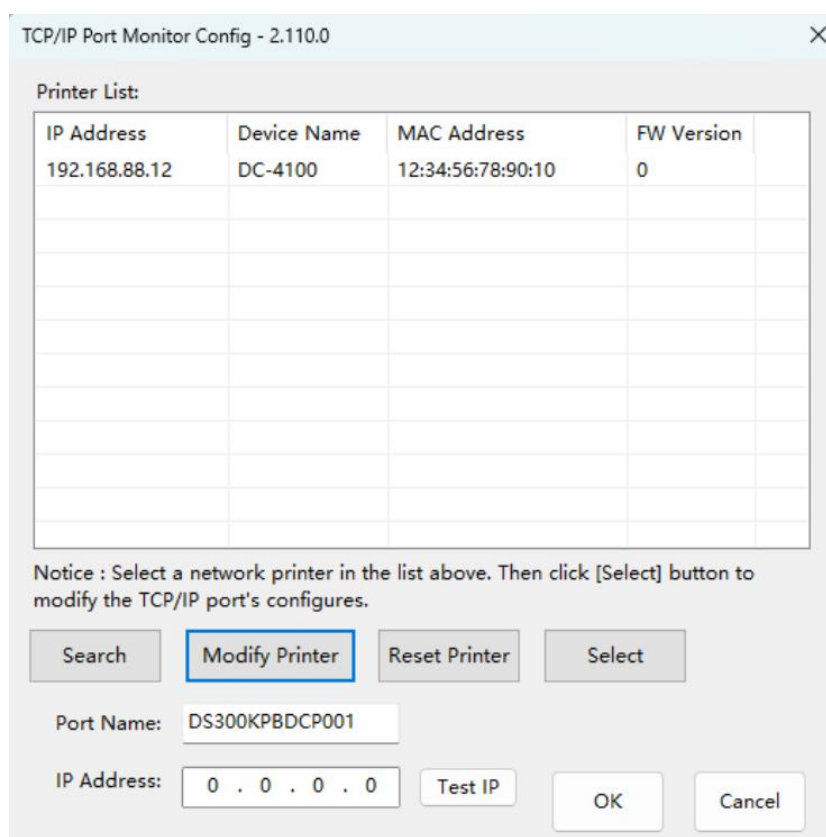
Notice : Select a network printer in the list above. Then click [Select] button to modify the TCP/IP port's configures.

Search Modify Printer Reset Printer Select

Port Name: DS300KPBDCP001

IP Address: 0 . 0 . 0 . 0 Test IP OK Cancel

- (3) Select your printer by clicking on it, then click on the “Modify Printer” button.



TCP/IP Port Monitor Config - 2.110.0

Printer List:

IP Address	Device Name	MAC Address	FW Version
192.168.88.12	DC-4100	12:34:56:78:90:10	0

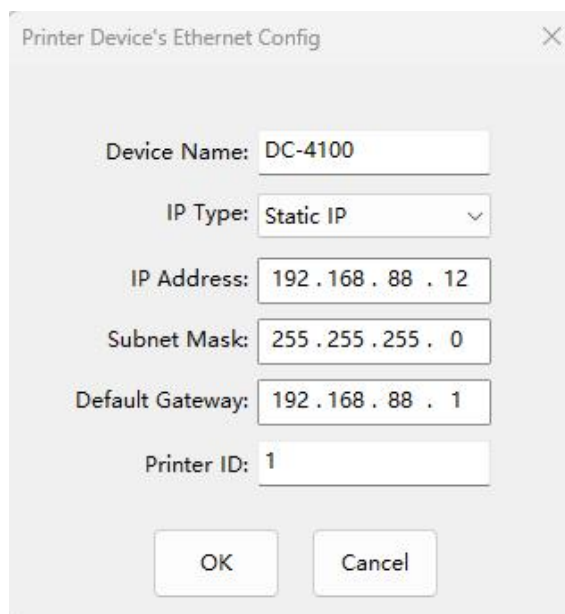
Notice : Select a network printer in the list above. Then click [Select] button to modify the TCP/IP port's configures.

Search **Modify Printer** Reset Printer Select

Port Name: DS300KPBDCP001

IP Address: 0 . 0 . 0 . 0 Test IP OK Cancel

- (4) You can modify the Printers name, IP address acquisition mode, IP address, Subnet mask, Default Gateway. Click the “OK” when you finish.



Printer Device's Ethernet Config

Device Name: DC-4100

IP Type: Static IP

IP Address: 192 . 168 . 88 . 12

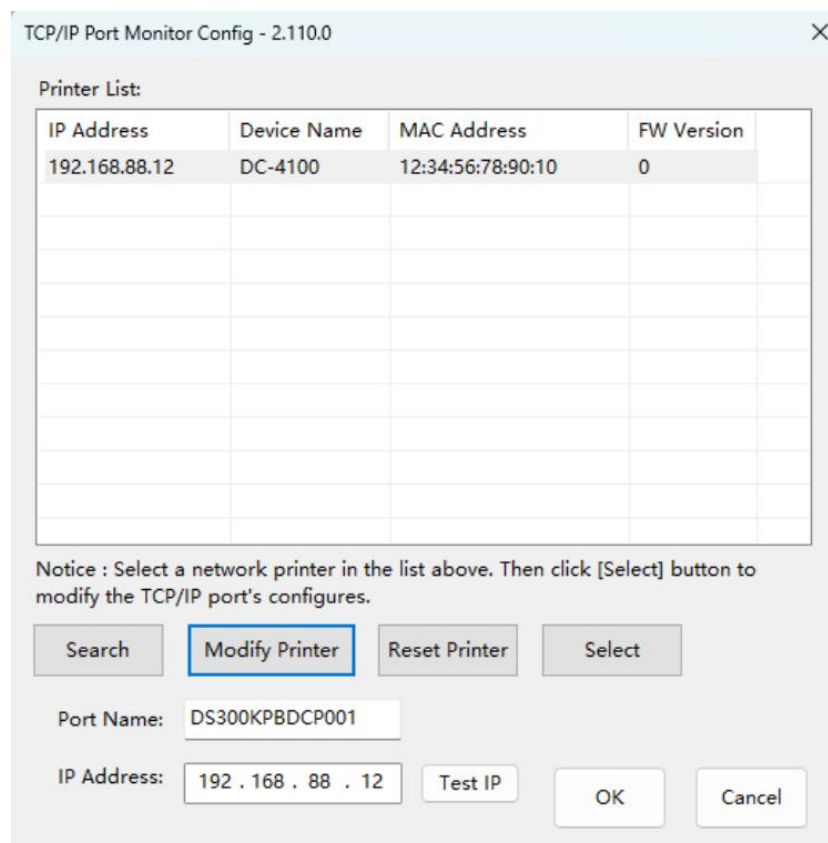
Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 88 . 1

Printer ID: 1

OK Cancel

- (5) Return to the Ethernet port configuration page, wait for a few seconds, you can see the updated Ethernet information.



TCP/IP Port Monitor Config - 2.110.0

Printer List:

IP Address	Device Name	MAC Address	FW Version
192.168.88.12	DC-4100	12:34:56:78:90:10	0

Notice : Select a network printer in the list above. Then click [Select] button to modify the TCP/IP port's configures.

Search Modify Printer Reset Printer Select

Port Name: DS300KPBDCP001

IP Address: 192 . 168 . 88 . 12 Test IP OK Cancel

- (6) Select your Printer, click “Select”. The corresponding IP address information is displayed at the bottom left. The installation will start when you click on “OK”.

TCP/IP Port Monitor Config - 2.110.0

Printer List:

IP Address	Device Name	MAC Address	FW Version
192.168.88.12	DC-4100	12:34:56:78:90:10	0

Notice : Select a network printer in the list above. Then click [Select] button to modify the TCP/IP port's configures.

Search Modify Printer Reset Printer **Select**

Port Name: DS300KPBDCP001

IP Address: 192 . 168 . 88 . 12 Test IP OK Cancel

- (7) Select the Driver Selection and appropriate Port Selection, click “Next”.

Dascom Printer Installer

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DASCOM

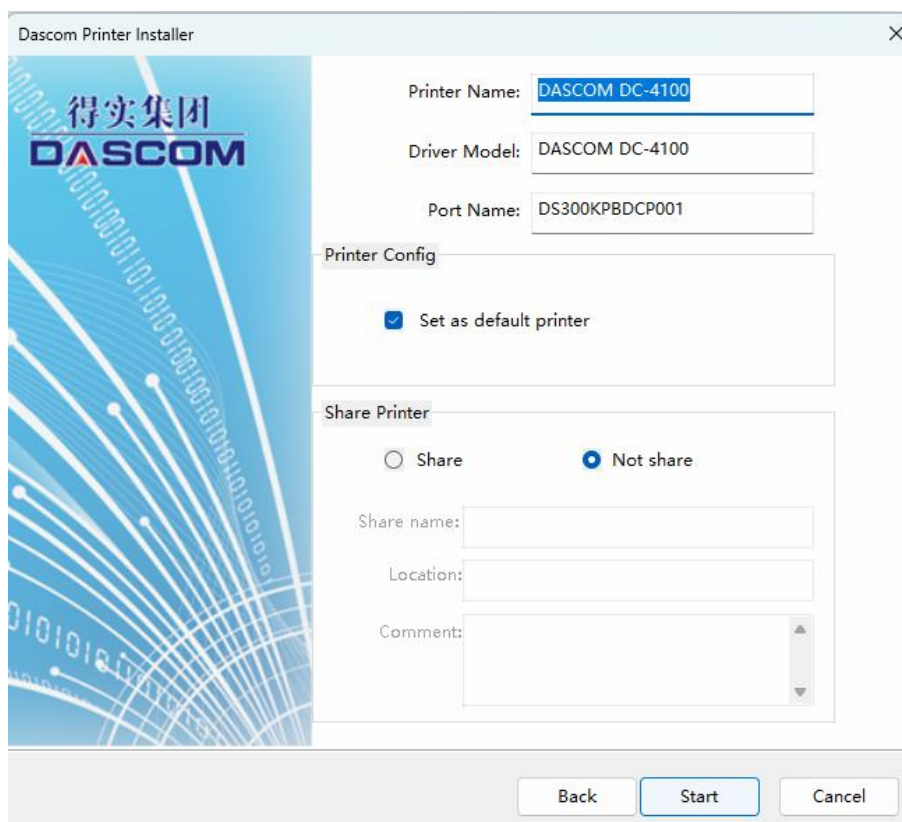
Choose a driver model. Click [Next] button to continue.

Driver Selection: Port Selection:

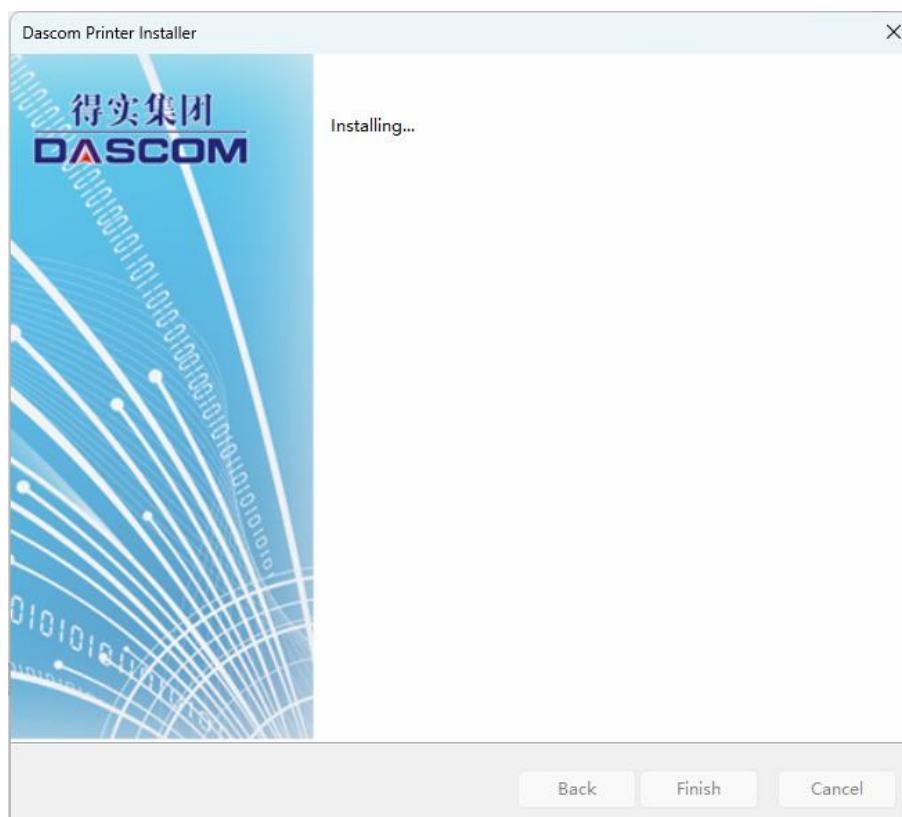
DASCOM DC-4100 **DS300KPBDCP001**

Back **Next** Cancel

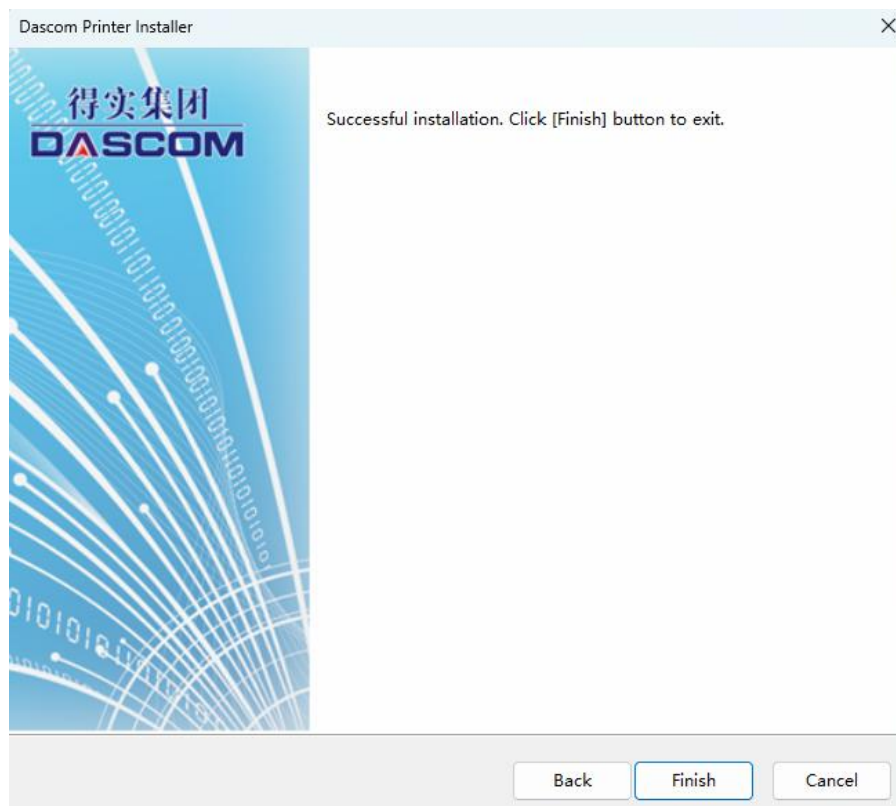
- (8) Set up the Printers name or go with the default, click “Start” to begin the process.



- (9) Waiting for the installation.



- (10) When the Driver has been successfully installed, click the “Finish” button.



CHAPTER 2 INSTALLATION

2.1 Installing Cards

Cards can be loaded automatically from the card cassette, which can hold a large quantity of cards making it convenient for mass or large-scale printing.

2.1.1 Card Specifications

This printer supports CR-80 cards.

Dimensions: 85.6mm × 54mm

Thickness: 0.25mm ~ 1.25mm

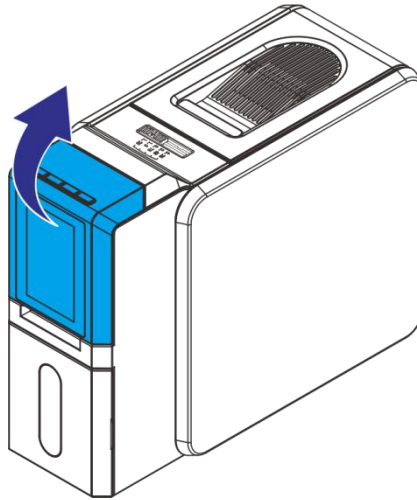
Types: blank card.



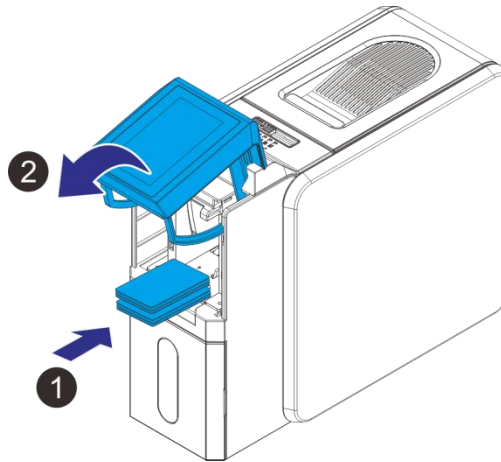
- Non CR-80 cards may cause defective print results or become stuck or lodged in the printer requiring service.
- Do not use the cards listed below:
 - Previously printed cards by other card printers
 - Damp cards
 - Cards containing foreign particles, such as glass or metal
 - Embossed cards
 - Cards contaminated with oil, grease or dirt
 - Defective cards with damages ,cracks, broken corners, or bends
 - Transparent Cards
 - Cards with odd shapes that are not CR80 size

2.1.2 Loading the cards

(1) Open the front cover.



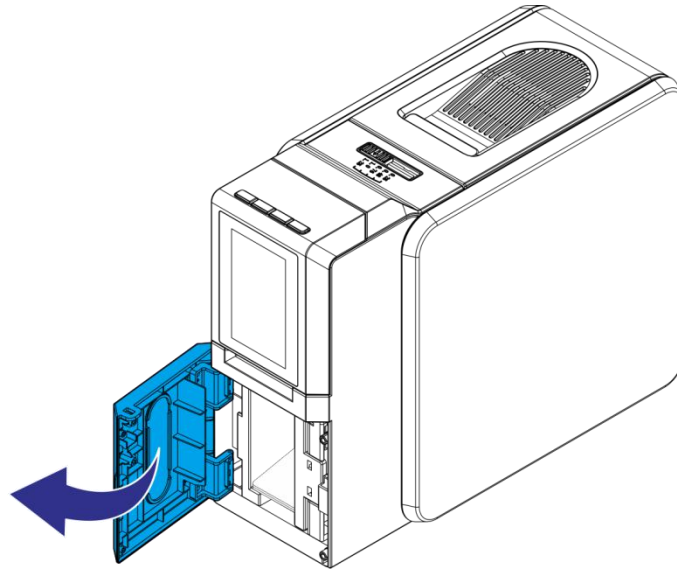
(2) Load the cards neatly to the Card cassette (①) and then close the front cover to its original position (②).



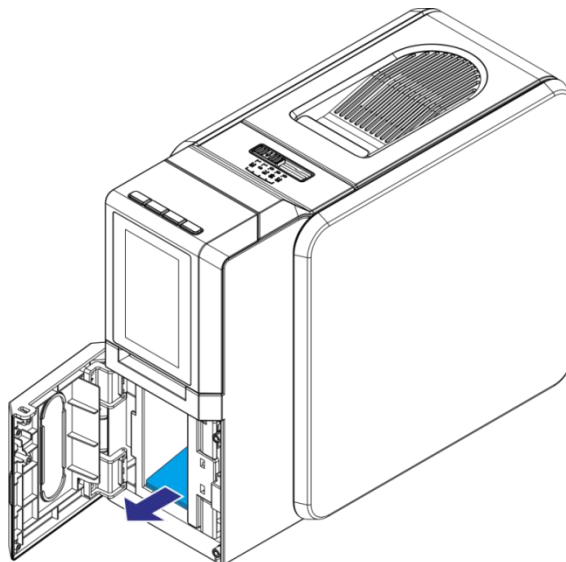
Please load the cards carefully. If the card is inserted in the wrong direction, the code selection may not work properly.

2.1.3 Take out the cards

- (1) Open the lower cover.

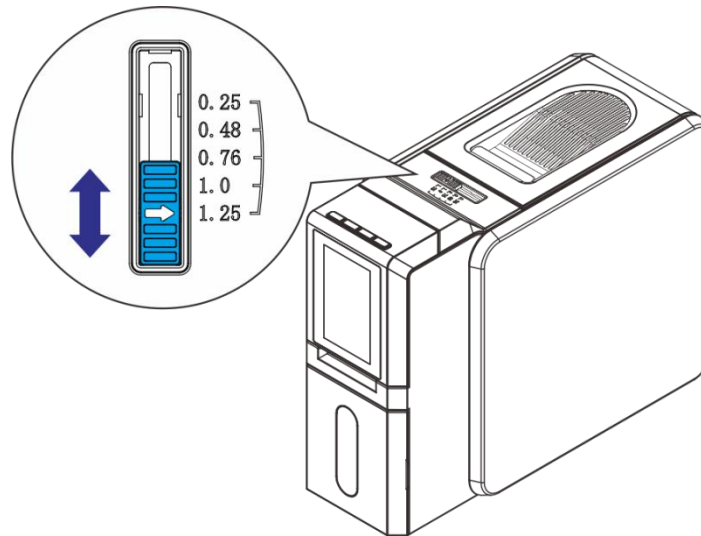


- (2) Take the cards out of the printer .



2.1.4 Adjusting the card inlet according to the thickness of the cards

The factory default supports 0.76mm (30mil) card thickness. Confirm the correct thickness setting before installing new cards to the card cassette. The printer configures with 0.25mm(10mil)~ 0.76mm(30mil) and 0.76mm(30mil)~ 1.25mm (50mil) , 5 levels. Set the lever to the correct position.



2.1.5 Managing Rejected Cards

Using duplex option, this Printer is equipped with front and rear slots to separate correctly printed cards from rejected ones. By default, rejected cards are ejected out the rear slot. However, the two slots are interchangeable for your preference.

Follow the below procedures to assign the location of the Reject Slot:

- (1) In "Ready" state, Press the **【Menu/Exit】** button to switch the printer from Normal Mode to User Mode.
- (2) Press the **【▲】** or **【▼】** to find the **[Basic Mode]**.
- (3) Press the **【SET】** button and press the **【▲】** or **【▼】** to find the **[Card Setup]**.
- (4) Press the **【SET】** button and press the **【▲】** or **【▼】** to find the **[Error card exit]**.
- (5) Press the **【SET】** button and press the **【▲】** or **【▼】** to find the **[Front]** or **[Back]**, press the **【SET】** button to confirm the settings.



By factory defaults, the Printer outputs correctly printed cards and rejected ones to the front and rear slots, respectively. If configured with duplex option, the rejected cards are ejected out the rear slot by default, while without duplex option, the rejected cards are ejected out the front slot by default.

2.2 Replacing the Ribbon

Change the ribbon when the LCD Display prompts **[RIBBON END]** message.



- Direct touching contaminates the **Ribbon** and causes uneven print quality.
- Avoid excessive impact on the Ribbon when replacing them.
- Using non-genuine products may cause poor print quality and Printer malfunction.
- Quality and reliability of the non-genuine products are not guaranteed.
- Even within the warranty period, fees may be charged on servicing the printer using non-genuine products.

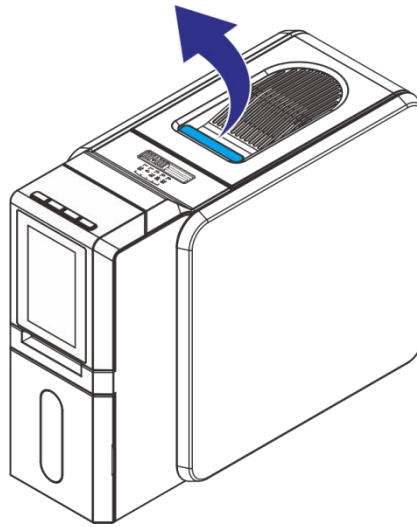


You can get the unused quantity of ribbon.
Refer Section 3.3 to get the unused amount of your ribbon.

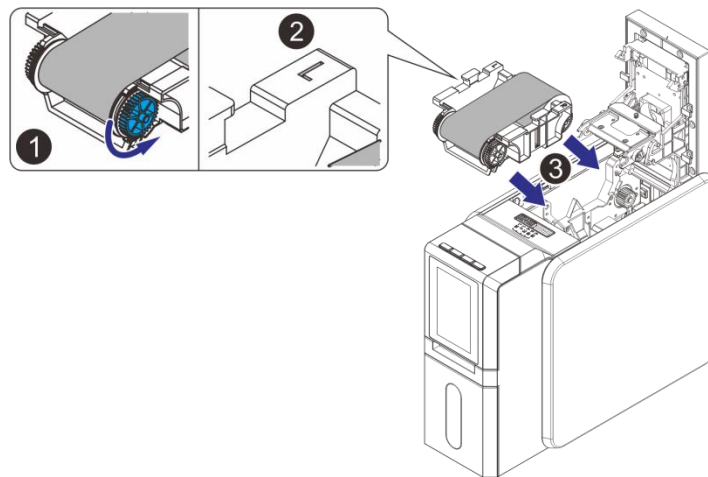
Via the LCD Panel or through the Printers Driver, an estimation of the remaining Ribbon quantity can be viewed if it is sufficient for your current print job. The LCD displays the **[RIBBON END]** warning when ribbon is close to running out.

Consume the Ribbon as soon as possible after purchase.

- (1) Press the cover open button to open the top cover.



- (2) Rotate the gear forward to flatten the ribbon film (①), confirm the direction of the ribbon (②), place the ribbon into the ribbon guide slot (③), and close the top cover.



- (1) When the Ribbon roller is mounted to the cartridge base, push it down to the bottom with a little force.
- (2) After installation, the Ribbon Film should be slightly tightened, without any no skew.

2.3 Printing Capacities

Most of the DASCOM K ribbons are given for an average of about 2,000 prints per roll. However, depending on the layout, the ribbon achieves a different number of prints, as demonstrated hereafter:



CR80 card 100% layout:
approx 1600 cards/roll*



CR80 card 80% layout:
approx 2000 cards/roll*



CR80 card 50% layout:
approx 3100 cards/roll*



CR80 card 25% layout:
approx 5600 cards/roll*

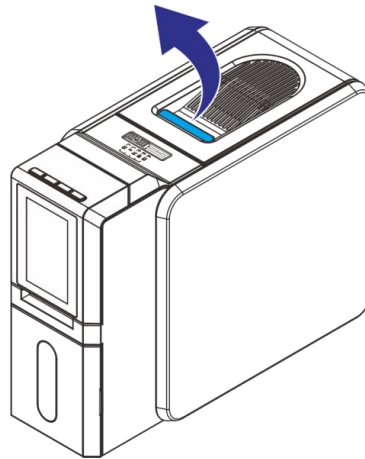
* Example based on K Ribbons(150m/roll).

2.4 Replacing the Cleaning Roller

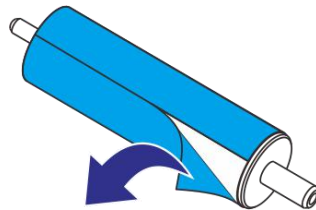
One **Cleaning Roller** is shipped with each **Ribbon** in a package.

IMPORTANT: Replace the cleaning roller each time you change the ribbon to guarantee the print quality and protection of the Print Head.

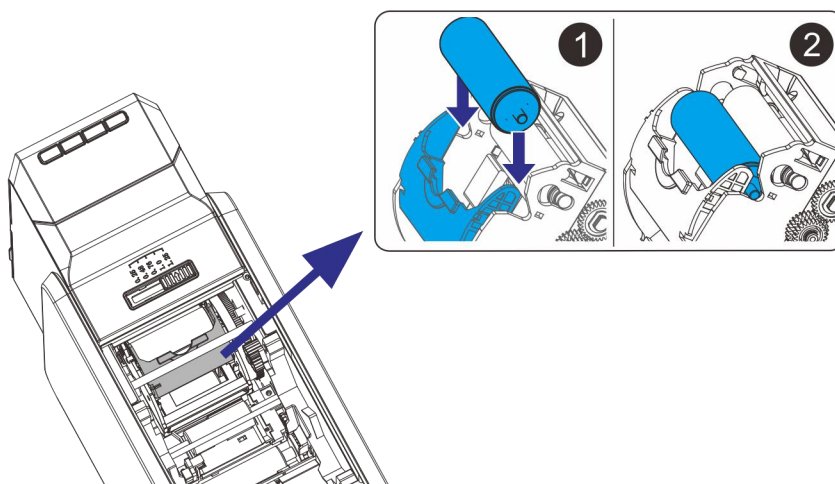
(1) Press the cover open button to open the top cover.



(2) Tear off the protective film on the cleaning roller.



(3) Put the cleaning roller vertically into the slot, in front of the Ribbon cartridge slot(①), the cleaning roller has been installed (②).



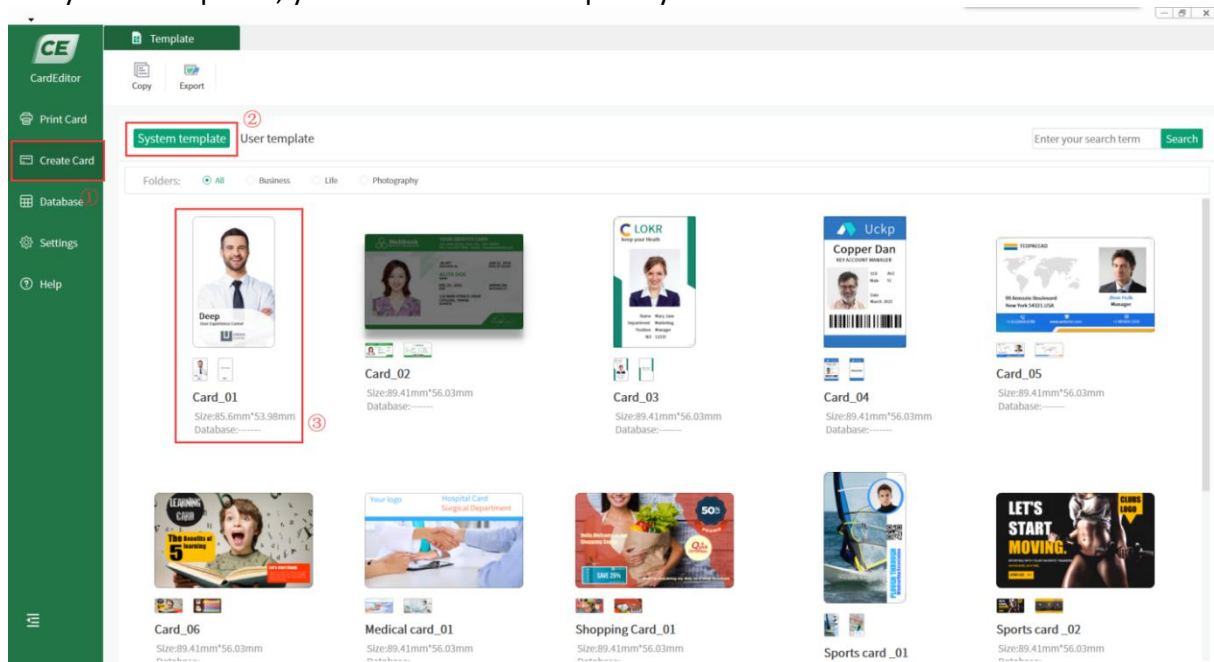
2.5 Printing card

All kinds of Windows applications have document printing capabilities (such as Microsoft Office suite MS-Word, MS-Access, MS-Excel, MS-PowerPoint, and the DASCUM self-designed card editing software - CardEditor).

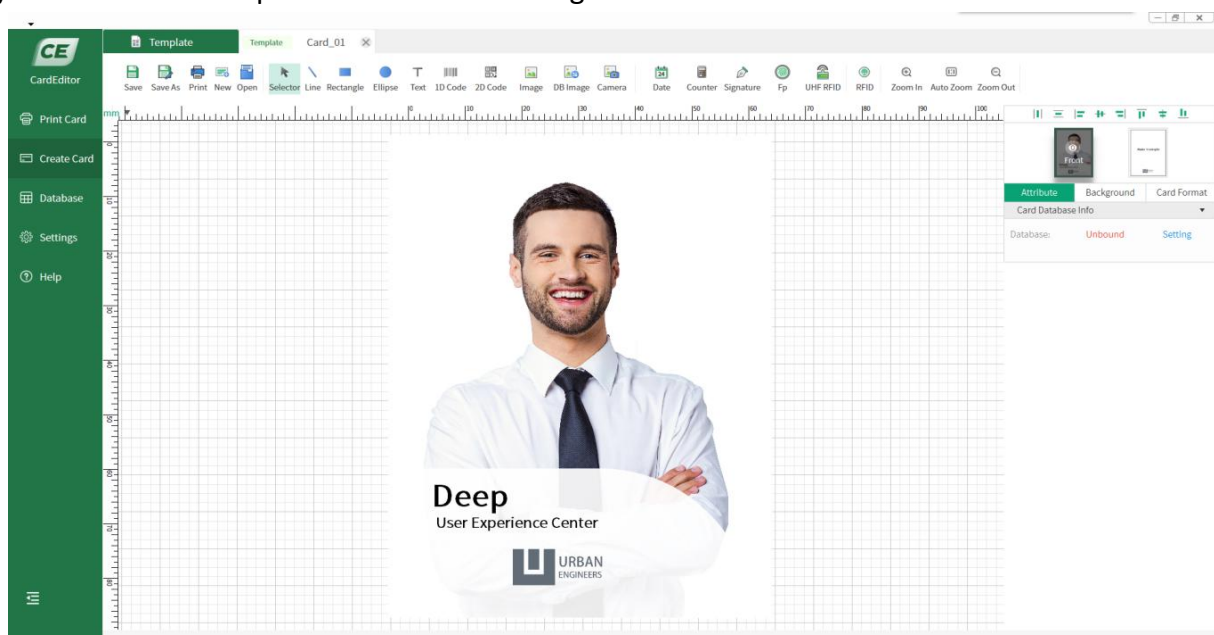
2.5.1 Using CardEditor

CardEditor is an editing software for Dascom smart card Printers. You can quickly create and edit the content that needs to be printed with this software.

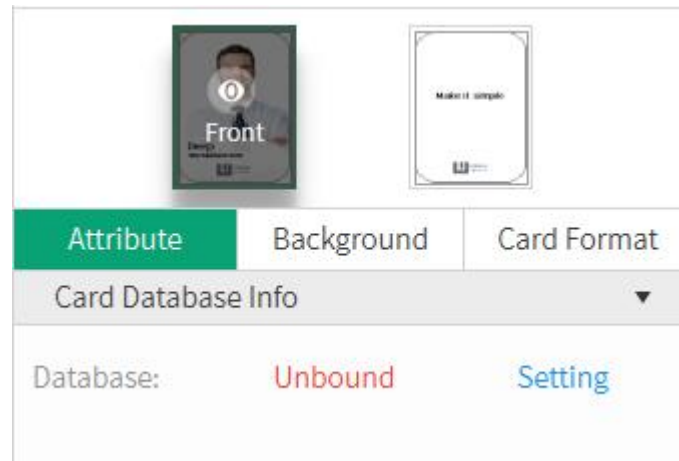
- (1) Double click the "CardEditor" logo to open the software, choose "Create Card", then click "System template", you can select the template you want.



- (2) Double click "Templates" to enter the design interface:



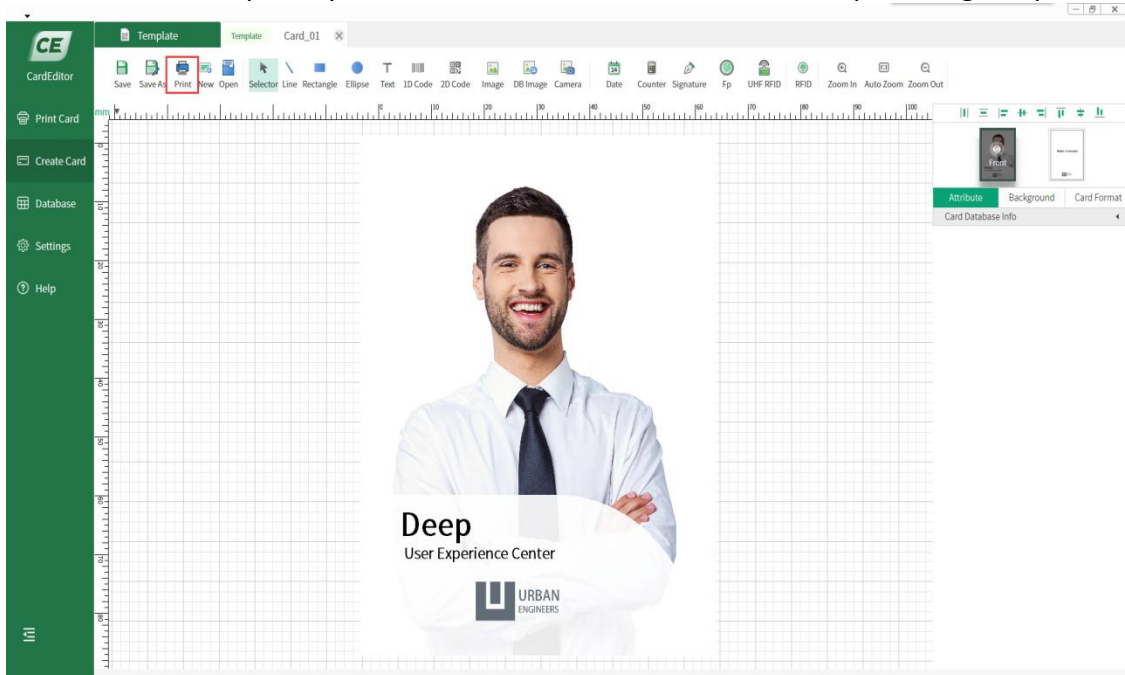
- (3) On the right menu, you can see the items “Attribute”, “Background” and “Card Format”:
- 1) Choose “Attribute”, you can set the database.
 - 2) Choose “Background”, you can change the background of the print content.
 - 3) Choose “Card Format”, you can set the cards size,transverse/ longitudinal.
 - 4) Click thumbnail of “Front” and “Back” , you can choose the different side to edit.



- (4) The tool buttons above the working interface, as shown in the following figure, are divided into two categories: "basic editing" and "Advanced tools". "Basic editing" includes line, rectangle, ellipse, text, 1D code, 2D code and image. "Advanced tools" includes DB image, camera date, counter, signature and so on. Each object has some attributes,such as position,border,color,fill,rotate.You can choose them according to your need. You can select the object you added, then adjust the position. You can also select the object you added, then delete it.

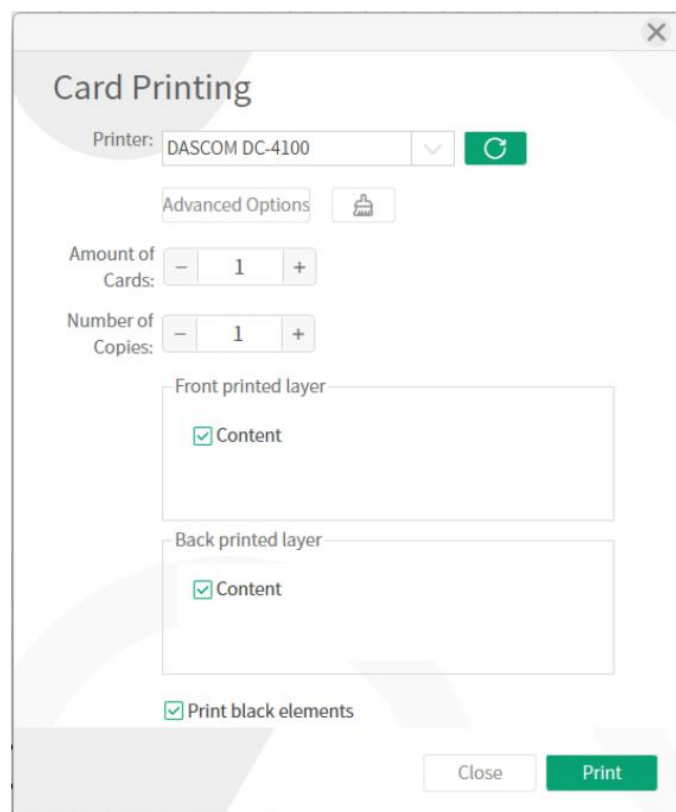


(5) Double click the template, you can edit the content, then click the “print” logo to print:



(6) You can set the amount of cards and number of copies before printing:

(Note: If "print black element" is selected, black objects will be printed with priority. This means all the black objects on the card will be placed on top. As an example, there are two objects on the template, one is a black rectangle and the other is text in other colors. When these two objects overlap, even if the text object is above the rectangle object, the Printer will only print out the card with black rectangle while no text on it.)

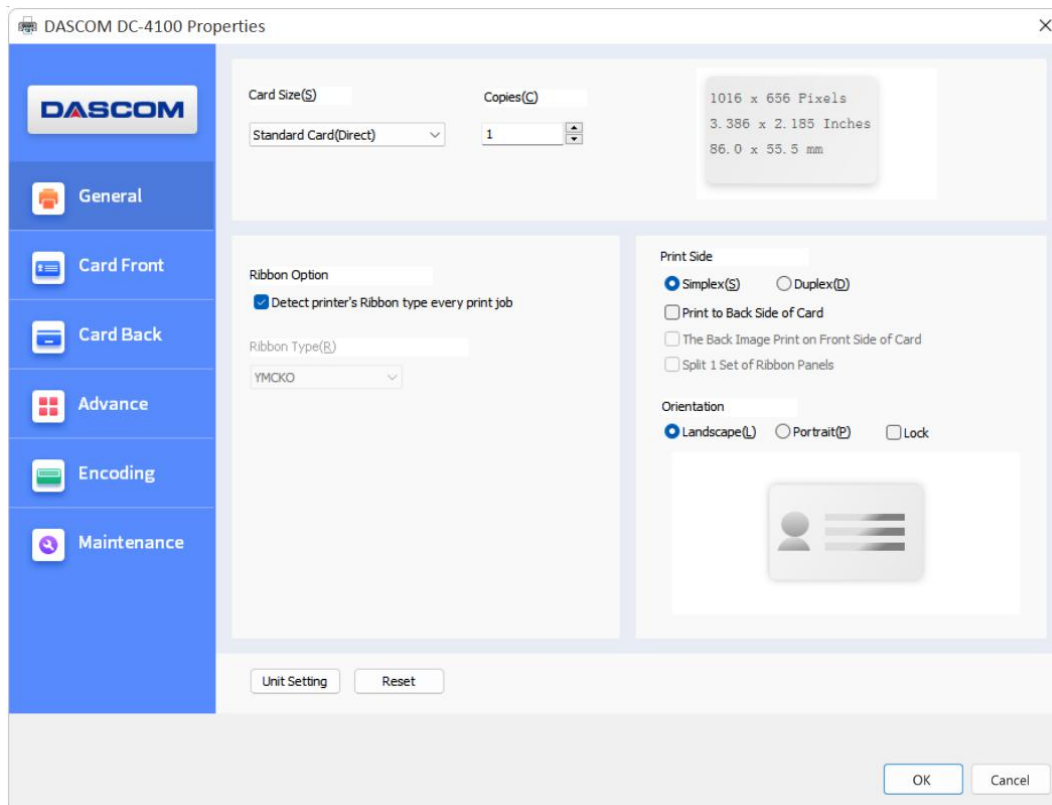


2.5.2 Using settings

The main selections of the Printer Driver are “General”, “Card Front”, “Card Back”, “Advance”, “Encoding” and “Maintenance”.

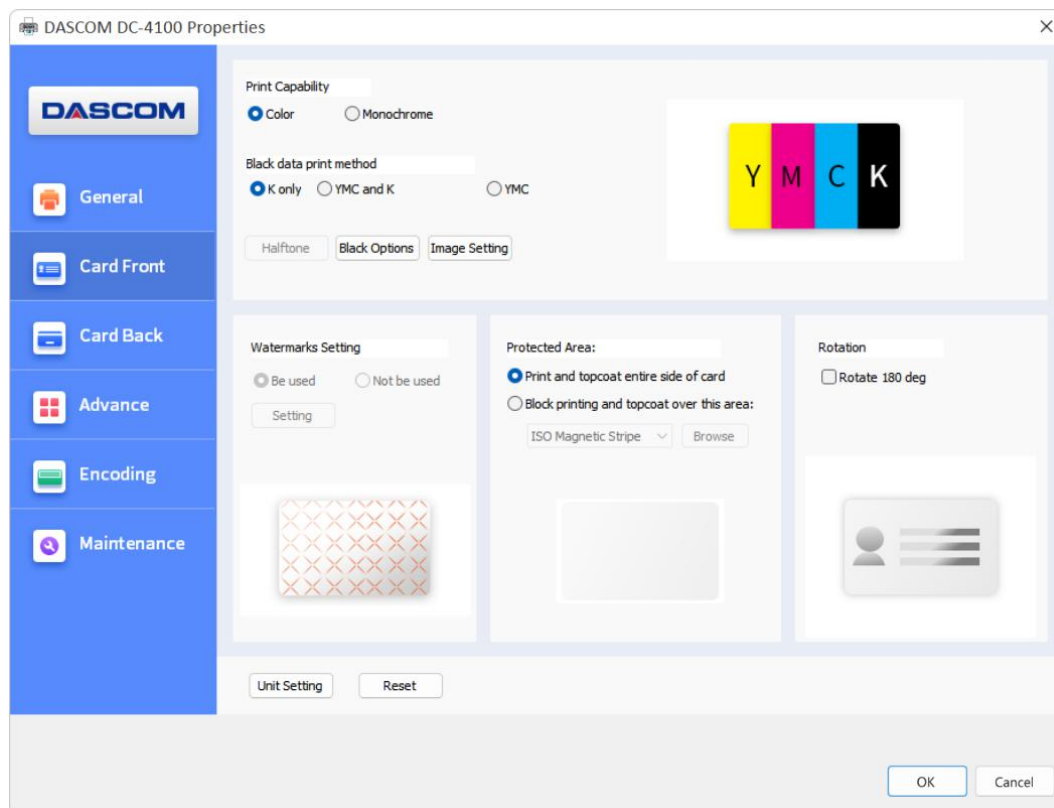
“General” Tab

- Card Size
- Copies (Print Quantity)
- Ribbon Option (Automatic Ribbon Detection)
- Card Orientation (Portrait or Landscape)



“Card Front” Tab

- Printing Capability (selects printing in Color or Black only)
- Black data print method (User can print black via print K color or YMC secondary colors and K color or YMC colors. As well as, user can choose monochrome printing, color printing)
- Image setting (The default sharpen contrast is 3, the adjustable range is 0-10.)
- Protection Area (non-printing zone setting)
- Rotation (Rotate the image 180° on the front side)
- Watermarks Setting (Watermark is a type of graphic, text, or texture mark used to identify and protect copyright. This printer can edit and print data at specific locations on the card, adding specific identification or information.)



Black Options

- Black level

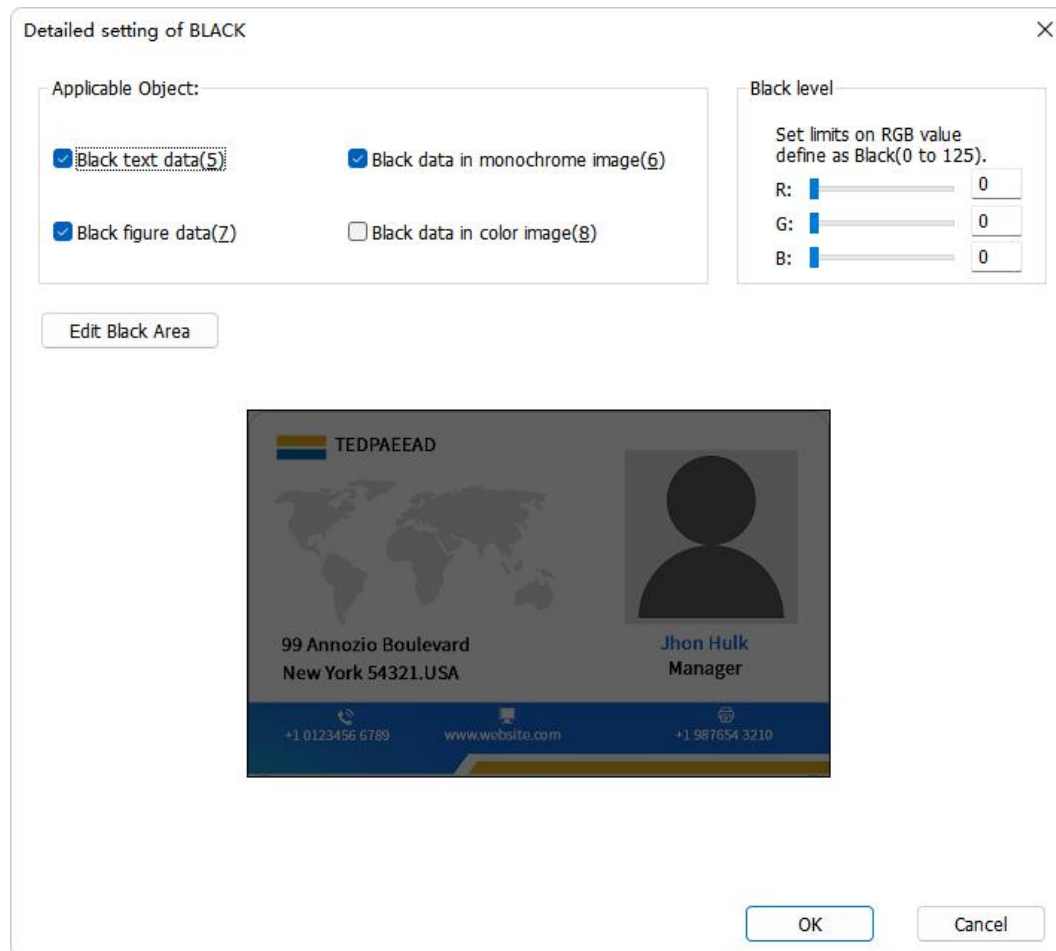
Set up the limits on RGB value defined as Black.

- The applicable object in valid area of black printing

Set up the applicable object in valid area of black printing, includes black text data, black figure data, black data in monochrome image and black data in color image.

- Edit Black Area

Set up the valid area of K color printing.



Edit Black Area

Black Valid Area Setting

Area Select
Valid Area: Whole Card

Background
Default Custom

Operation
☒ Select ☐ Draw Delete Clear

Parameter
Unit: mm X Offset: Width:
Y Offset: Height:

Print Preview

TEDPAEEAD

99 Annozio Boulevard
New York 54321.USA

Jhon Hulk
Manager

+1 0123456 6789 www.website.com +1 987654 3210

Extraction Results

TEDPAEEAD

99 Annozio Boulevard
New York 54321.USA

Manager

OK Cancel

Area Select->Valid Area:

Whole Card: All of the black content will be printed by K-Ribbon.

Defined: Define the area that black content will be printed by K-Ribbon.

Undefined: Define the area that black content will NOT be printed by K-Ribbon.

Parameter:

Unit: mm or inch

X Offset: X coordinates of selected area.

Y Offset: Y coordinates of selected area.

Width: Width of selected area.

Height: Height of selected area.

Operation:

Select: Select area. In this area content will be printed or NOT printed by K-Ribbon.(According to Valid Area)

Draw: Draw area. In this area content will be printed or NOT printed by K-Ribbon.(According to Valid Area)

Delete: Delete a selected area.

Clear: Delete all area that has been drawn.

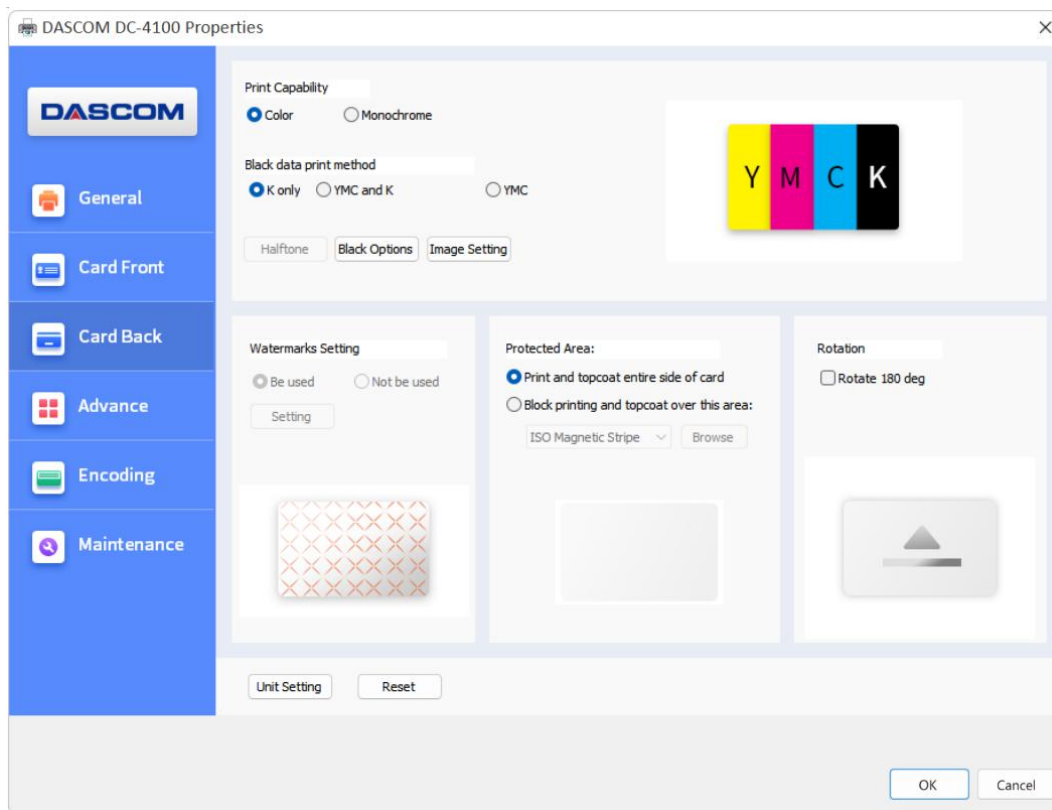
Watermarks Setting

- O Layer Area: Printing area and content of layer O, "None", "Full Page" and "From Bitmap".
- Coverage mode: Normal and reverse. O layer do not print when choosing "Full Page" in the O Layer Area and choosing "Reverse in the Coverage mode."
- O Value: The threshold range is from 0 to 255, the large the value is, the more obvious the printing effect of the layer is.
- O Layer File Path: Choose "From Bitmap" in the O layer Area. Click "Browse" to select the path to add a custom bitmap, which must be a monochromatic bitmap with 1016 x 656 pixels.
- Clicking the "clear" button will delete the added bitmap path.



"Card Back" Tab

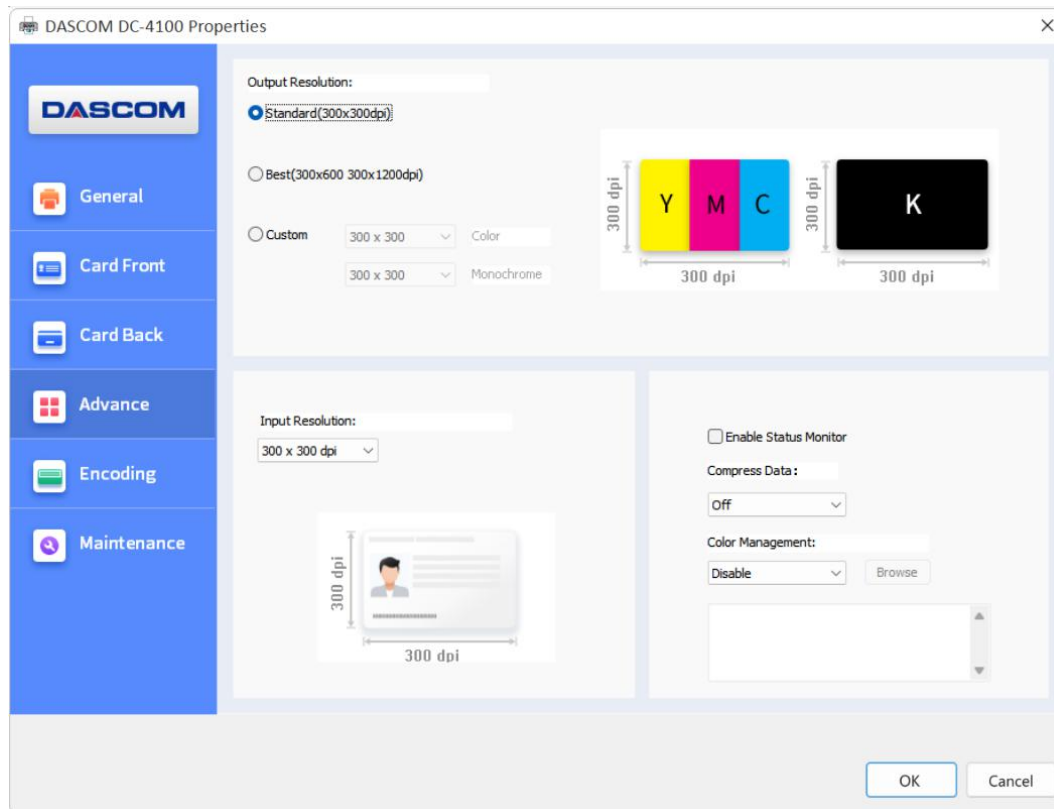
You need to first select "Duplex (D)" in the "Print Side" area of the "General" tab, and then click on the "Card Back" tab to set it.



Note: The settings and parameter options for "Card Back" Tab and "Card front" Tab are consistent.

“Advance” Tab

- Output Resolution-Standard ,Best and Custom
- Input Resolution
- Enable Status Monitor (Enable or Disables Printer Status Monitor utility)
- Color Management (“Build-In” selects the System for color rendering or “Disable” to leave it to the Printer or “Custom”)



“Encoding” Tab

The screenshot shows the 'DASCOM DC-4100 Properties' dialog box with the 'Encoding' tab selected. The left sidebar contains icons for General, Card Front, Card Back, Advance, Encoding, and Maintenance. The main area contains the following fields:

- Start Character(s):** A text box containing '~'.
- Type:** A dropdown menu set to 'HiCo'.
- Track 1:**
 - Start sentinel:** A text box containing '%'.
 - End sentinel:** A text box containing '?'.
- Track 2:**
 - Start sentinel:** A text box containing ';'.
 - End sentinel:** A text box containing '?'.
- Track 3:**
 - Start sentinel:** A text box containing '#'.
 - End sentinel:** A text box containing '?'.
- Encoding Tool:** A button located at the bottom right of the main area.
- OK** and **Cancel** buttons are at the bottom right of the dialog box.

Encoding Page

Start Character(s): Magnetic encode data must start with this character(s).

Type -> HiCo: Magnetic card whose type is high resistance.

Type -> Loco: Magnetic card whose type is low resistance.

Track 1: To define track 1 data in magnetic card.

Start sentinel: Data of track 1 must start with this character.

End sentinel: Data of track 1 must end with this character.

Example: ~%ABCDEDFG1234567890?

ABCDEDFG1234567890 is the data of track 1.

Track 2: To define track 2 data in magnetic card.

Start sentinel: Data of track 2 must start with this character.

End sentinel: Data of track 2 must end with this character.

Example: ~;1234567890?

1234567890 is the data of track 2.

Track 3: To define track 3 data in magnetic card.

Start sentinel: Data of track 3 must start with this character.

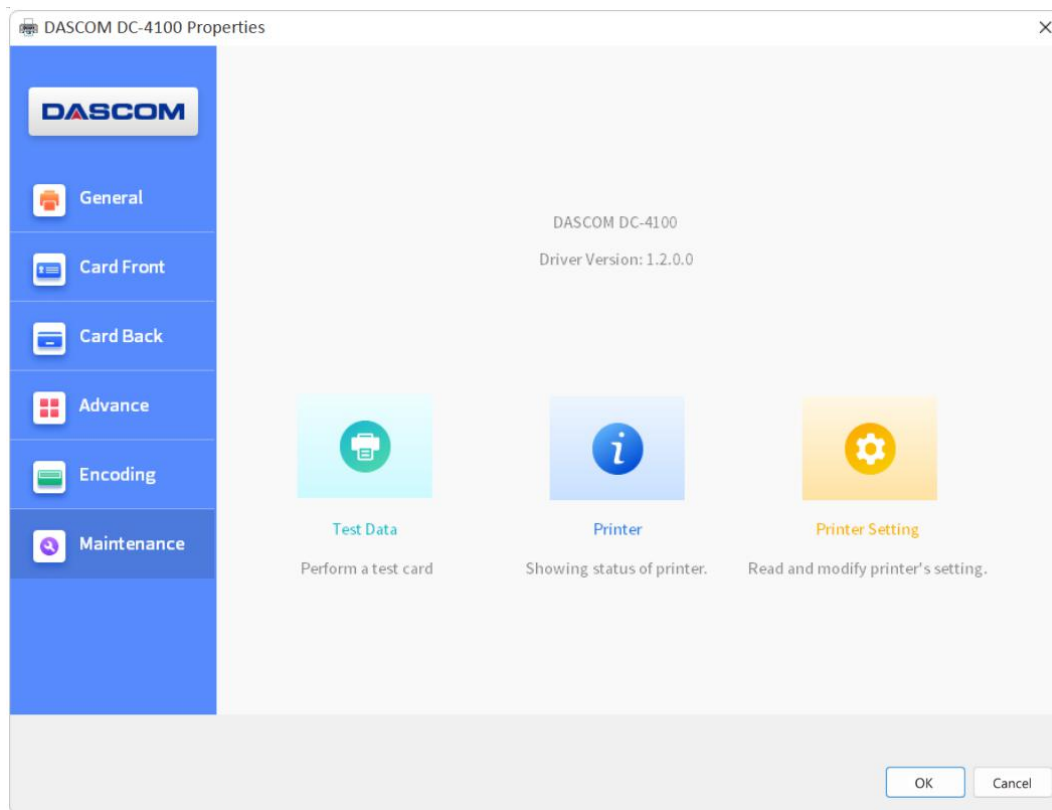
End sentinel: Data of track 3 must end with this character.

Example: ~#0987654321?

0987654321 is the data of track 3.

“Maintenance” Tab

- Test Data (Print a Test Card with Serial #,Model #,Firmware level, MAC Address)
- Printer (User can check the Printers DPI, the maximum printing area and minimum printing area.)
- Printer setting (Details of Printer parameters in User Mode or Service Mode.)



2.6 Updating Firmware

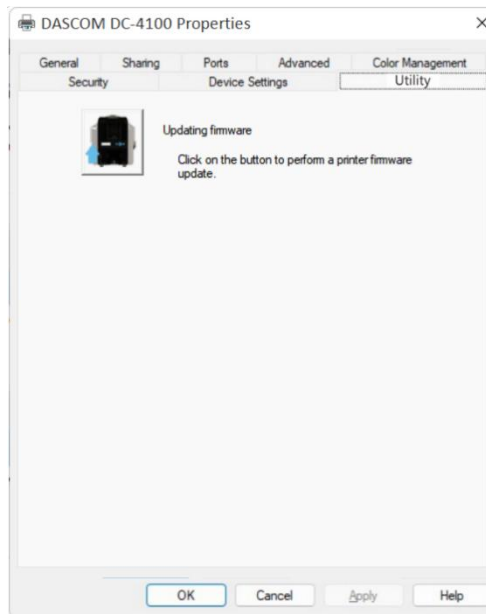
It's very easy to update the firmware, but if the installation of firmware is incorrect, the printer will be damaged.

Before updating, please contact DASCOM dealer for advice on the implementation of the upgrade. In general, updates are required only when a problem or failure is explicitly identified in DASCOM.

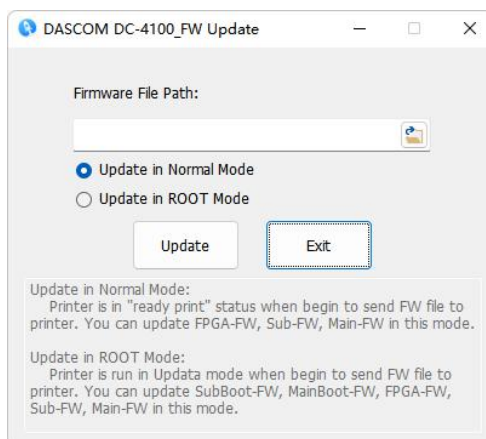
To download the update, please visit www.dascom.com

The steps to update firmware:

- (1) Select the control panel on the start key in the lower left corner of the Windows taskbar.
- (2) Select Devices and then Printers and Scanners, then click on the DC-4100 Driver.
- (3) Choose Printer Property on the printer menu.
- (4) Select the "Utility" tab and click the Printer icon.



- (5) Click the Browse icon, go to and choose the update firmware, choose which Update Mode then click the "Update" button. When the update is finished, click "Exit".



- (6) After the upgrade, you can create the personalized cards with this Printer.

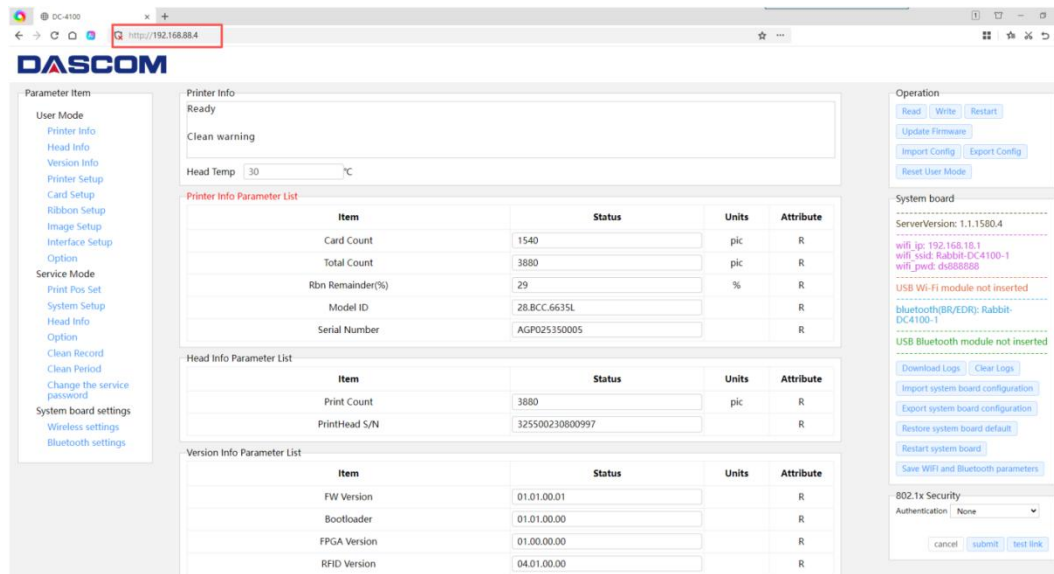


Do not interrupt the transmission between the computer to the Printer during the download. (Such as switch off the printer or computer power, unplug the cable, etc.). Otherwise, Printer might not restart. In case of such a failure, please contact your DASCOM dealer.

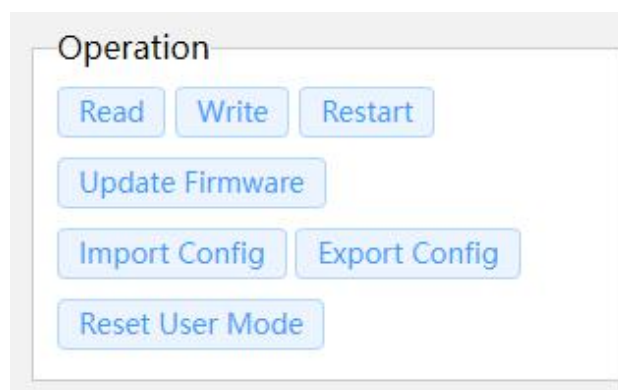
2.7 Using the Web Panel

You can configure the printer from any device that has a browser and is compatible with your printer communication capabilities.

- (1) Connect the printer via Ethernet.
- (2) Modify the printer IP address to ensure that it belongs to the same network segment as the PC IP address.
- (3) Enter the IP address of the current printer in the browser to enter the Web Panel login interface.
- (4) On the page, you can view or modify printer information:



2.7.1 Operation



Read: After clicking, you can read the current settings of the printer.

Write: After modifying, click "Write" to modify printer settings (Note: Temporary modifications only, the printer will revert to its previous state after restart).

Restart: After pressing, the printer will restart

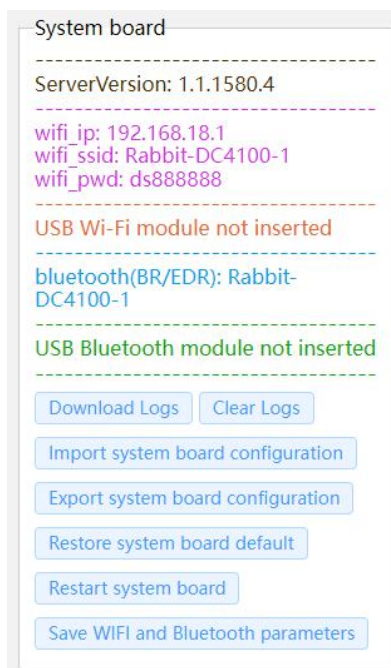
Update Firmware: After clicking, you can select the printer firmware for updating.

Import Config: To import a configuration file, you need to select the correct configuration file in the pop-up window; otherwise, the import will fail.

Export Config: Export the configuration file, exporting the current printer's configuration into a configuration file. Please note whether the file is blocked by the browser.

Restore User Model Settings: Press to reset the printer to its factory settings.

2.7.2 System board information and configuration



The screenshot shows a web interface titled "System board". It displays the following information and controls:

- ServerVersion: 1.1.1580.4
- wifi_ip: 192.168.18.1
- wifi_ssid: Rabbit-DC4100-1
- wifi_pwd: ds888888
- USB Wi-Fi module not inserted (indicated by a red text)
- bluetooth(BR/EDR): Rabbit-DC4100-1
- USB Bluetooth module not inserted (indicated by a green text)
- Buttons: Download Logs, Clear Logs, Import system board configuration, Export system board configuration, Restore system board default, Restart system board, Save WIFI and Bluetooth parameters

Download Logs: Download system board logs.

Clear Logs: Clear system board logs.

Import system board configuration: Import the system board configuration file.

Export system board configuration: Export system board configuration file.

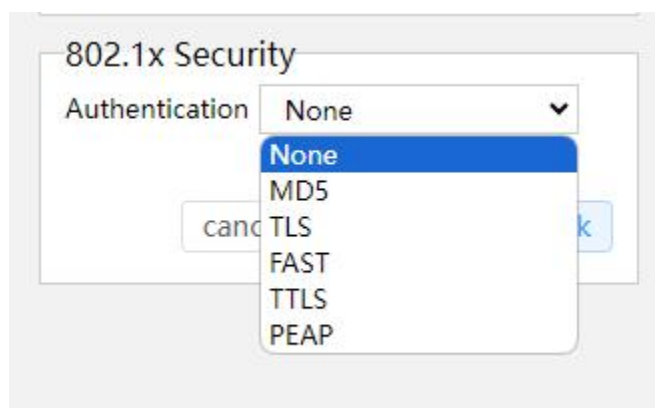
Restore system board default: Restore the default configuration of the system board.

Restart system board: Restart the system board configuration.

Save parameters: Save Wireless Communication parameters.

2.7.3 802.1X Security

802.1X network security authentication settings:



2.7.4 Printer Info

Displays the real-time status and temperatures of the Print Head and Heater Roller:

Printer Info

Ready

Clean warning

Head Temp °C

2.7.5 User Mode

You can view the basic information of the printer, such as device details, print head information, version information, option information etc; or modify settings like printer setup, card setup, ribbon setup, image setup, interface setup.

2.7.5.1 Printer Info Parameter List

Printer Info Parameter List			
Item	Status	Units	Attribute
Card Count	1539	pic	R
Total Count	3879	pic	R
Rbn Remainder(%)	29	%	R
Model ID	28.BCC.6635L		R
Serial Number	AGP025350005		R

2.7.5.2 Head Info Parameter List

Head Info Parameter List			
Item	Status	Units	Attribute
Print Count	3879	pic	R
PrintHead S/N	325500230800997		R

2.7.5.3 Version Info Parameter List

Item	Status	Units	Attribute
FW Version	01.01.00.01		R
Bootloader	01.01.00.00		R
FPGA Version	01.00.00.00		R
RFID Version	04.01.00.00		R

2.7.5.4 Option Parameter List

Item	Status	Units	Attribute
3 In 1 Encoder	Disconnect		R
IC R/W1	Connect		R
IC R/W2	Connect		R
Turner	Connect		R
Exit Box	Connect		R
Laminator	Disconnect		R
Feeder Box	Connect		R
Magnetic Strip	Connect		R
Back Exit Box	Disconnect		R
ETH Srv	Connect		R

2.7.5.5 Printer Setup Parameter List

Item	Status	Units	Attribute
Buzzer	ON		R&W
Sleep Mode	OFF	min	R&W
Language Setup	English		R&W
LCD Contrast	128		R&W
Feeder Check	OFF		R&W
Head Heat Low	OFF		R&W
Print Mode	Normal		R&W
QItem Drop	ON		R&W

Item	Status	Units	Attribute
Card Feed	330	mm/s	R&W
Card Ejection	400	mm/s	R&W

Item	Status	Units	Attribute
Single_Sided	380	mm/s	R&W
Dual_Sided	450	mm/s	R&W

2.7.5.6 Card Setup Parameter List

Item	Status	Units	Attribute
Card Type	PVC		R&W
Std card exit	Front		R&W
Error card exit	Back		R&W
Card Feed Mode	Card Box		R&W
Card Out Nip	OFF		R&W
Overflow Check	ON		R&W
OutPos Manual Adj	0.00	mm	R&W
Init Ign Eject	OFF		R&W

2.7.5.7 Ribbon Setup Parameter List

Item	Status	Units	Attribute
Ribbon Type	YMCKO		R
Rbn near end(%)	0	%	R&W
Ribbon Thickness	Thin		R
Rbn Secret Level(Cnt)	1	times	R&W
Rbn Secret Level(Offs)	50	0.01mm	R&W
Skip Rbn Init	OFF		R&W

2.7.5.8 Image Setup Parameter List

Item	Status	Units	Attribute
Y Balance(F)	0		R&W
M Balance(F)	0		R&W
C Balance(F)	0		R&W
K Balance(F)	0		R&W
O Balance(F)	0		R&W
Y Balance(B)	0		R&W
M Balance(B)	0		R&W
C Balance(B)	0		R&W
K Balance(B)	0		R&W
O Balance(B)	0		R&W
Color Brightness	Dark		R&W
K Smooth	Smooth		R&W

2.7.5.9 Interface Setup Parameter List

Item	Status	Units	Attribute
Printer ID	0		R&W
IP Type	Static		R&W
IP Address	192.168.88.4		R&W
Subnet Mask	255.255.255.0		R&W
Gateway	192.168.88.1		R&W
MAC Address	BC-9D-A5-05-D0-BC		R
Timeouts	0	sec	R&W
USB ID	OFF		R&W

2.7.6 Service Mode

Click any setting item under "Service Mode" in the left navigation bar, enter the password in the pop-up window, click "OK", enter service mode, and modify the advanced settings of the printer. (The default password is 123456)

Service Mode

[Print Pos Set](#)

System Setup

Head Info

Option

Clean Record

Clean Period

Change the service password

Password Verify

Service password

.....

[Change the service password](#)

Confirm

Cancel

2.7.6.1 Print Pos Setup Parameter List

Item	Status	Units	Attribute
Card Pos Set	-0.25	mm	R&W
HRZ Pos Set	0.00	mm	R&W
VTC Pos Set	-1	dot	R&W
Y Shift VTC(F)	0	dot	R&W
M Shift VTC(F)	0	dot	R&W
C Shift VTC(F)	0	dot	R&W
K Shift VTC(F)	0	dot	R&W
Y Shift VTC(B)	0	dot	R&W
M Shift VTC(B)	0	dot	R&W
C Shift VTC(B)	0	dot	R&W
K Shift VTC(B)	0	dot	R&W
Y Shift HRZ(F)	0	dot	R&W
M Shift HRZ(F)	0	dot	R&W
C Shift HRZ(F)	0	dot	R&W
K Shift HRZ(F)	0	dot	R&W
Y Shift HRZ(B)	0	dot	R&W
M Shift HRZ(B)	0	dot	R&W
C Shift HRZ(B)	0	dot	R&W
K Shift HRZ(B)	0	dot	R&W

2.7.6.2 System Setup Parameter List

Item	Status	Units	Attribute
Card Rotate Pos.	0		R&W
Card Rotate Rev	0		R&W
Contact RW Pos	0.50	mm	R&W
Con-Less RW Pos	0.00	mm	R&W
Top Blank	0	dot	R&W
Bottom Blank	15	dot	R&W
Op Bottom Blank	3	dot	R&W
YMC Left Blank	12	dot	R&W
YMC Right Blank	11	dot	R&W
Op Left Blank	12	dot	R&W
Op Right Blank	11	dot	R&W

2.7.6.3 Head Info Parameter List

Head Info Parameter List			
Item	Status	Units	Attribute
Print Count	3879	pic	R
Resistance value	3155	Ω	R&W
PrintHead S/N	325500230800997		R&W

2.7.6.4 Print Head Replacement History Parameter List

Printhead Replacement History Parameter List			
Item	Status	Units	Attribute
Change 1	325500230800997		R
Print Count	3879	times	R

2.7.6.5 Option Parameter List

Option Parameter List			
Item	Status	Units	Attribute
3 In 1 Encoder	Disconnect		R&W
IC R/W1	Connect		R&W
IC R/W2	Connect		R&W
Turner	Connect		R&W
Exit Box	Connect		R&W
Laminator	Disconnect		R&W
Feeder Box	Connect		R&W
Magnetic Strip	Connect		R&W
Back Exit Box	Disconnect		R&W
ETH Srv	Connect		R&W

2.7.6.6 Clean Record Parameter List

Clean Record Parameter List			
Item	Status	Units	Attribute
(current) No.11's Print Counts	1391		R
No.2's Print Counts	1391		R
No.3's Print Counts	1391		R
No.4's Print Counts	1391		R
No.5's Print Counts	1391		R
No.6's Print Counts	1391		R
No.7's Print Counts	1391		R
No.8's Print Counts	1391		R
No.9's Print Counts	1391		R
No.10's Print Counts	1391		R

2.7.6.7 Clean Period Parameter List

Clean Period Parameter List			
Item	Status	Units	Attribute
Clean Counts	11		R
Maximum Print Counts	1348		R

2.7.7 System Board Settings

2.7.7.1 Wireless network Configuration Parameter List

Item	Status	Units	Attribute
Wireless Working Mode	AP mode		R&W
Wireless IP Address	192.168.18.1		R&W
Wireless Network Name	Rabbit-DC4100-1		R&W
Wireless Network Password	ds888888		R&W
Wireless Network Frequency Band	2.4GHz		R&W
Wireless Network Channel	11		R&W
USB Wireless Working Mode	AP mode		R&W
USB Wireless IP Address	192.168.20.1		R&W
USB Wireless Network Name	Rabbit-DC4100-2		R&W
USB Wireless Network Password	ds222222		R&W
USB Wireless Network Frequency Band	2.4GHz		R&W
USB Wireless Network Channel	11		R&W

2.7.7.2 Wireless Communication Configuration Parameter List

Item	Status	Units	Attribute
Classic Bluetooth Name	Rabbit-DC4100-1		R&W
USB Classic Bluetooth Name	Rabbit-DC4100-2		R&W

CHAPTER 3 NORMAL MODE AND USER MODE

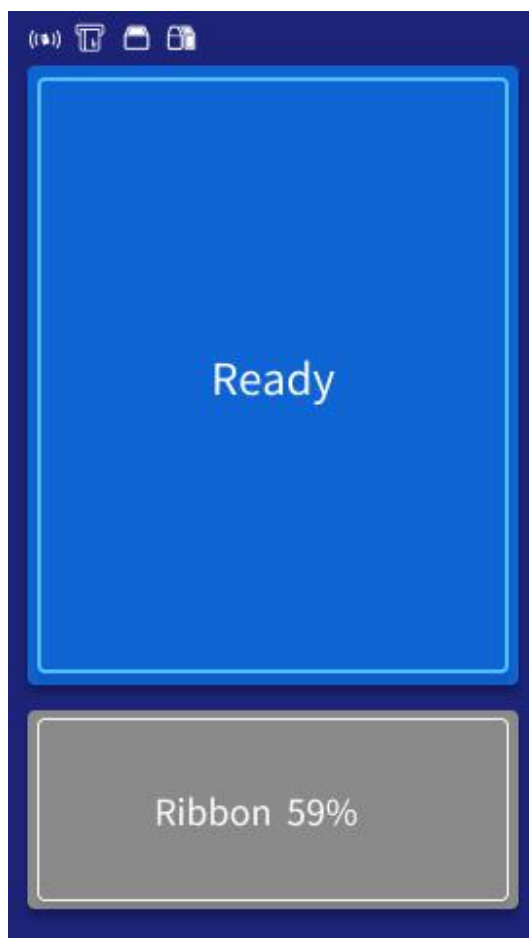
You can change between **Normal** and **User Modes** when the Printer is operating.

This section outlines the differences between these two modes and how to switch from one to the other.

3.1 Normal Mode

Normal mode: After start up, the printer goes into Normal Mode in which the printer can print cards. In this mode, the LCD displays the unused ribbon.

Normal Mode Message List:



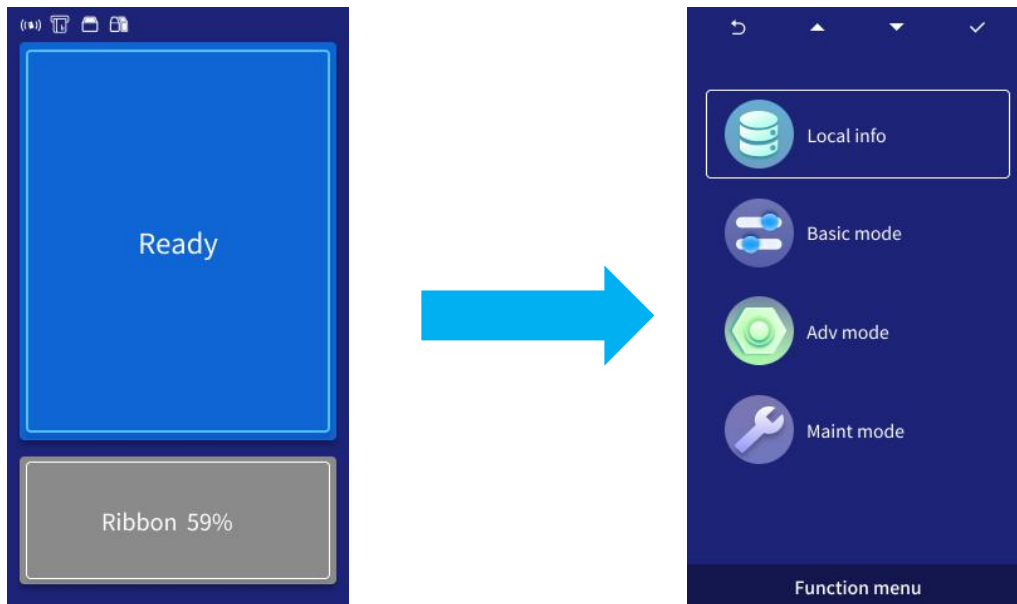
Initialize	The printer undergoes system diagnostic and initialization. Cards remaining in Printer from a previous irregular session will be ejected.
Ready	The printer is awaiting host requests or commands.
Printing	Printing cards in progress.

3.2 Printer Setup

Printer Setup allows changing the parameters and checking the status.

■ Steps to change from Normal Mode to Printer Setup:

In "Ready" state, Press the **【Menu/Exit】** button to switch the printer from Normal Mode to User Mode.



Even when the printer is in an error state, you can change modes.

■ Click **【Menu/Exit】** key to return when entering a sub-menu



Must be pressed to return and save the newly changed value.

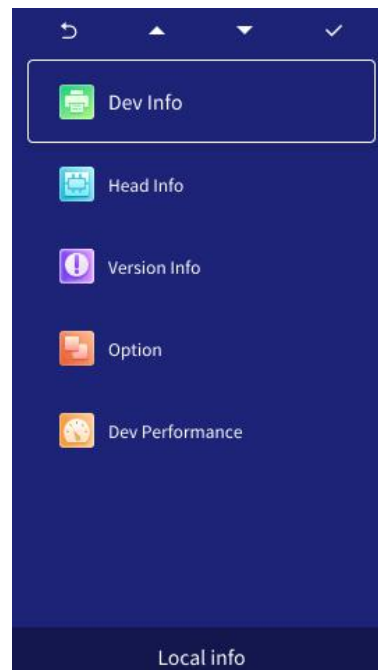
Switching off the printer will not save any newly changed value(s) if Normal mode is not returned.

3.3 The major menus

- Local info
- Basic mode
- Adv mode
- Maint mode

3.3.1 Local info

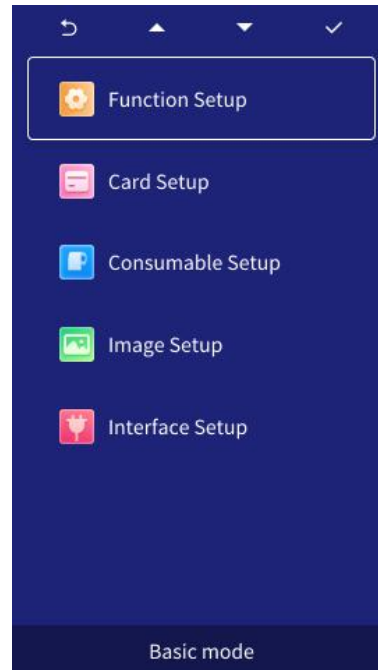
- ◆ Dev Info
- ◆ Head Info
- ◆ Version Info
- ◆ Option
- ◆ Dev Performance



For quality assurance at the factory, it is necessary to run various print tests on the printer. A value of tens or more for Card Count is normal during manufacturing of your printer. Record the new print head serial number after replacement; otherwise, failure to do so affects print quality and voids the warranty for this print head.

3.3.2 Basic mode

- ◆ Function Setup
- ◆ Card Setup
- ◆ Consumables Setup
- ◆ Image Setup
- ◆ Interface Setup



Function Setup

Function	Options	
Language	☐ Chinese ☐ Japanese ☐ English ☐ Spanish ☐ German ☐ French ☐ Russian	
Buzzer	☐ On ☐ Off	
Sleep Mode	Range: 0~120 minutes	
Feeder Check	In "Ready" state to detect whether card slot is empty ☐ On ☐ Off	
Overflow Check	Checks if the card cassette is full ☐ On ☐ Off	
Head Heat Low	☐ On ☐ Off	
PreHeat Start	Range: 10~25°C	
PreHeat End	Range: 20~50°C	
Print Mode	☐ Normal ☐ Fast	
Prnq Empty	☐ On ☐ Off	
Move Card Speed	Ins Spd	Range: 200~400mm/s
	Out Spd	Range: 200~400mm/s
Box Ej Speed	Dual Box Ej Spd	Range: 200~450mm/s
Clean Period	Set the cleaning prompt parameters (when the set number of prints is reached, a cleaning prompt will appear on the screen): Range: 100-2500 (default value: 500) Note: It is recommended to set the number of printed sheets based on the consumables used, such as setting the number of sheets per roll of consumables to the number of sheets for cleaning prompts	
Clean Printer	☐ Yes ☐ No	
Print Test Card	☐ Yes ☐ No	
Reset Basic Default	☐ Yes ☐ No	

Card Setup

Function	Options
Card Type	● PVC ● PET ● PET-G ● PC
Card Feed Mode	● Card box ● Auto ● Back In Cmd
Std card exit	Sets the port for normal card to eject from the printer ● Front ● Back
Error card exit	Sets the port for error card to eject from the printer ● Front ● Back
Card Out Nip	● On ● Off
Out Pos Manual Adj	Range: -20.00~20.00mm
Init Ign Eject	● On ● Off

Consumables Setup

Function	Options	
Ribbon Type	Lists the available ribbon type.	
Rbn near end(%)	When the ribbon margin is set to a certain value, the LCD prompts "Check the ribbon margin". Range: 0~100	
Rbn Thickness	Default value: Thin	
Rbn Secret Set	Rbn Secret Cnt	Range: 1~5
	Rbn Secret Offs	● 50 ● 100
Skip Rbn Init	● On ● Off	

Image Setup

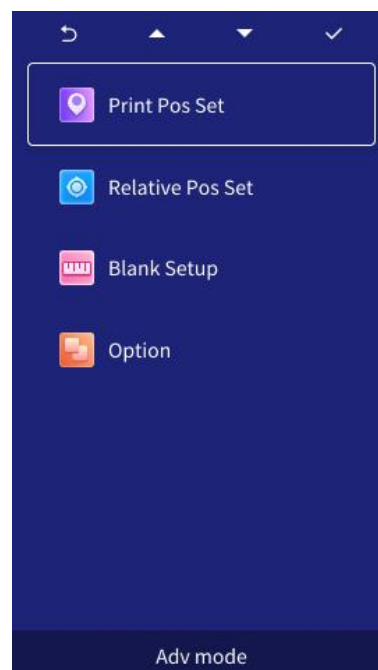
Function	Options	
Color Brightness	Selects the brightness of the print out: ● Light ● Dark ● User ● Cold	
Yellow Balance	Sets the concentration value of Yellow: Range: -64～64	
Magenta Balance	Sets the concentration value of Magenta: Range: -64～64	
Cyan Balance	Sets the concentration value of Cyan: Range: -64～64	
Black Balance	Sets the concentration value of Black: Range: -32～32	
0 Balance	Sets the concentration value of 0: Range: -64～64	
Yellow Balance(B)	Sets the concentration value of Yellow(B): Range: -64～64	
Magenta Balance(B)	Sets the concentration value of Magenta(B): Range: -64～64	
Cyan Balance(B)	Sets the concentration value of Cyan(B): Range: -64～64	
Black Balance(B)	Sets the concentration value of Black(B): Range: -32～32	
0 Balance(B)	Sets the concentration value of 0(B): Range: -64～64	
K Smooth	● Standard ● Smooth	
User Defined	On	Yes
		No
	Off	

Interface Setup

Function	Options	
USB Setup	Printer ID	Range: 0 ~ 15
	USB ID	● Off ● On
Network Setup	IP Type	● Static ● Dynamic
	IP Address	Range: 0 ~ 255
	Subnet Mask	Range: 0 ~ 255
	Default Gateway	Range: 0 ~ 255
	MAC Address	Display current MAC Address
	Timeout (s)	Range: 0 ~ 240s

3.3.3 Advanced mode

- ◆ Print Pos Set
- ◆ Relative Pos Set
- ◆ Blank Setup
- ◆ Option



3.3.4 Maintenance mode

Maintenance mode is used for technical support and after-sales maintenance.

CHAPTER 4 CLEANING

4.1 Cleaning with a Cleaning Card

Use the Cleaning Card provided to clean the Card Transport Roller if cards do not feed smoothly.

We recommend cleaning the rollers after printing 250 cards.



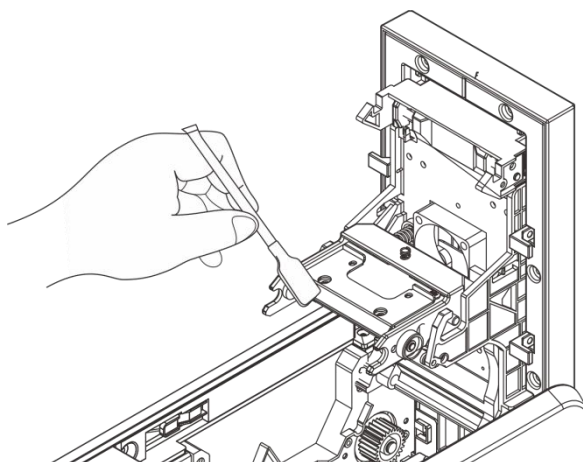
Cleaning Cards can only be used once and cannot be reused. Use a new Cleaning Card with the adhesive side down every time you clean the rollers. Do not touch the platen with hands.

- 1) Switch from Normal Mode to User Mode. Press the **【▲】** or **【▼】** to find the **[Basic Mode]**.
- 2) Press the **【SET】** button and press the **【▲】** or **【▼】** to find the **[Function Setup]**.
- 3) Press the **【SET】** button and press the **【▲】** or **【▼】** to find the **[Clean Printer]**.
- 4) Press the **【▲】** or **【▼】** to find the **[Yes]**, then press the **【SET】** button, the screen displays **[Remove Rbn/sponge]**.
- 5) Open the top cover to remove the ribbon and sponge, then close the cover. **[Remove cards]** is displayed. After taking out the cards, **[Set cleaning card]** is displayed.
- 6) Put the cleaning card in the card box, and press the **【SET】** button to start cleaning.
- 7) After cleaning, **[Over, Put Rbn/Sponge Again]** is displayed.
- 8) Open the top cover to put in the Ribbon, then close the cover. **[SET key Init]** is displayed.
- 9) When user presses the **【SET】** button, the Printer will be initialized. After initialization, the Printer can continue printing.

4.2 Maintaining the print head

Use a clean cotton swab or a soft cloth to remove any foreign material accumulated on the Print Head, such as dust, sticky dirt, etc.

After long-term printing, it is particularly important to clean the printing head, which can guarantee the print quality and extend the service life of the Print Head.



CHAPTER 5 TROUBLESHOOTING

5.1 Warning Messages and Troubleshooting

This printer is designed for minimal user intervention. Occasionally, the LCD displays messages to advise users to take corrective actions.

After clearing an error, press SET Key to initialize the printer and [Ready] will be displayed.

- Warning/Error List

Display	Solution
Push Set Key	Push the SET Key once.
Feeder empty	Card cassette is empty. Refill cards to the feeder. Press SET button to resume printing.
Cover Open	Close the front cover tightly.
Head heat high	When Print Head temperature is too high, the printer will stop printing until the temperature drops.
Check Ribbon	Cause: The unused ribbon reached the levels set in "Ribbon Near End". Action: Beware if unused ribbon is sufficient for your print job.
Invalid Ribbon	Probable Cause: Unrecognized ribbon. Action: Do not turn off power. Refer to Section 2.2 to reload the ribbon if ribbon is skewed. Or, check if ribbon type is YMCK. Press SET button to clear this warning and the printer will resume previous printing after initialization.
Ribbon Jam	Probable Cause: Ribbon winding problem. Action: Do not turn off power. Refer to Section 2.2 to reload the Ribbon. Press SET button to clear this warning and the Printer will resume previous printing after initialization.
Feeder Card Jam	Pressing SET button as LCD display shown may eject jammed card after initialization. If the fault is not cleared after adjusting the lever, turn the rollers manually to clear jammed card.
Printer Card Jam	Press SET button to clear this warning and the printer will resume previous printing after initialization.
RFID_AUTH_ERROR	Check if genuine Ribbon is used. Next, check if the Ribbon has an RFID tag. Press the SET button as the LCD shown to initialize the Printer.
Call Support	Check if genuine Ribbon is used. Next, check if the ribbon has an RFID tag. Press SET button as the LCD shown to initialize the printer.



Contact your Reseller's service support team if you find errors not listed above. Please inform Error Code displayed on the lower right of the Display.

5.2 Valuable Help from You For Troubleshooting

Help us identify the following for us to resolve your problem(s):

- The version number of the software installed.
- You can confirm the Driver version number installed in your Microsoft Windows PC by the follow steps:
 - ① Go to Settings, Devices, Printers and Scanners.
 - ② Select the printer, double click.
 - ③ Select the Printing Preferences on the printer menu.
 - ④ Go to the Maintenance tab to locate the Driver version

5.3 Troubleshooting

Do not attempt to use any tool to fix any problem. This may cause serious damage to the printer.

5.3.1 Faults Related to Printing

■ No print out?

① Check the printer driver

Check compatible printer driver for Microsoft Windows.

Check if this printer is the default driver in Microsoft Windows.

② Check if power is connected to the printer.

Check if the printer is connected correctly to power.

Check if the LCD Display shows: **READY**.

Confirm power accessories provided for this printer are correctly installed.

③ Check the USB cable

Check if the USB cable is connected to your printer and your host.

④ Check the Ribbon

Check if the Ribbon is properly installed.

⑤ Check card jam

Check if any card remains in transport area.

Check if any card jam.

⑥ Print the test card

You can realize the reverse steps refer to this section.

■ Blank card ejected?

① Check the Ribbon

Check if Ribbon has ran out or is damaged. Replace it if necessary.

② Check if Print Head is damaged. Print test pattern.

If failed to print the test pattern, contact local reseller for support, or visit website www.dascom.com.

■ Is the printing quality satisfactory?

Faults	Probable Cause	Corrective Actions
Defective Spots	Dirty Card Surface	• Check that card surfaces are clean and dust free. • Use new, clean cards. • Avoid using the printer in dusty or dirty place.
	Cleaning Roller	• Use cleaning card to clean the transport rollers
White Line	Ribbon not properly installed	Check the proper installation of the Ribbon. Check if Ribbon is folded up.
	Dirty or defective Print Head	Please contact local reseller.
Vague or Light Image	Improper Ribbon installation	Check the proper installation of the Ribbon. Check if Ribbon is folded up.
	Ribbon not synchronized	Open and close the front cover to synchronize the ribbon.
	Dirty printer or cleaning rollers	Clean the printer.
	Non-genuine cards	Check if your cards meet specifications. Recommend that you purchase cards from Dascom authorized reseller. If the problem persists, please contact your Dascom reseller.
Blank Cards	Improper ribbon installation	Check that print ribbon is installed properly.

■ Incomplete printout?**① Check manual settings**

Check card software design layout matches card dimensions.

Check the landscape/portrait orientation in the driver.

② Check interface cable

If the text is printed in strange colors, use the USB cable supplied with the printer. Check secure and proper connection between printer and your computer.

Try another cable.

③ Check if the printer is clean

See Section 2.3 to clean/replace cleaning rollers.

④ Check if cards are clean

Take precautions to keep cards free from dust and contamination.

⑤ Check Ribbon

Check if ribbon is installed properly. Check that the ribbon is running smoothly.

⑥ Check Print Head

If a straight white line(s) travels across the length of your card, the Print Head may be dirty or defective. If the problem persists after cleaning, please contact your Dascom Reseller.

5.3.2 Clear Jammed Card

Do not turn off the power. The print job will be lost.

Do not attempt to use any tool (screwdriver or sharp object) to remove a jammed card. Sharp objects may damage the rollers and heating rollers. Damages caused by such action may void the warranty.

■ To reduce the chance of card jamming

- ① See Section 2.1.3 to set the proper card thickness dial.
- ② Use cards with thickness specified in the specifications.
- ③ Check that cards are not bent.
- ④ Before putting the cards to the card cassette, shuffle the cards by holding the outside edges to prevent sticking cards.

■ To take out jammed card

When card jam occurs, the LCD display prompts "Printer Card Jam, press SET Key". The Printer will initialize to eject the card.

5.3.3 Change the Print Head

The Print Head is a heating element and directly affects print quality. A dirty or dusty environment seriously affects its life and can cause damage to the Print Head.

Consult your Dascom Reseller if print head replacement is necessary.

To meet DASCOM's warranty policy for print head replacement, you must:

- Use Dascom approved consumables, including cards, ribbons and service parts.
- Maintain regular cleaning and maintenance of the printer.
- Install the printer in a dust free environment as detailed in the specifications
- Use good well-conditioned cards: clean, without deterioration causing head damage.

5.4 Technical support

If you have trouble configuring and using a printer, read this manual carefully.

If you still can't solve the problem, you can get detailed information and help via the DASCOS partner network.

5.4.1 DASCOS partner network

If you have any problem can't be solved, please contact the DASCOS dealer. If you don't know any DASCOS dealer, please visit www.dascom.com to tell us your problems.

DASCOS will inform you of the detailed contact of your local DASCOS dealer. When you call the DASCOS dealer, you must provide the following information:

- ① The printer model and serial number.
- ② The current configuration and operating system.
- ③ A description of what happened.
- ④ A description of the steps taken to address this problem.

In addition, to help answer your questions around the clock, www.dascom.com provides a variety of explanations for the daily use of printers.

5.4.2 More information

If additional technical assistance is required, you can visit DASCOS website www.dascom.com, and find information about the use and troubleshooting of DASCOS printers in the driver and support section.

You can download the latest version of firmware, print driver and use manual, DASCOS printer usage and maintenance related video, and FAQ (FAQ) section.

CHAPTER 6 SPECIFICATION

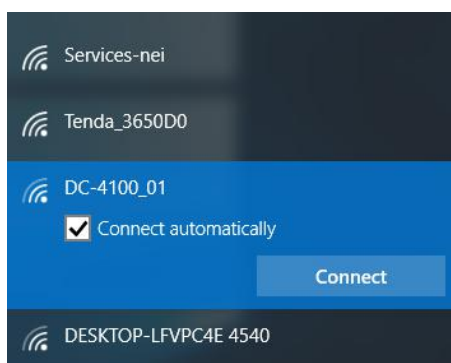
Model	DC-4100
Printing system	Direct thermal printing
Function	double-sided printing, edge to edge printing,
Resolution	YMC: 300×300DPI, 300DPI × 600DPI K: 300×300DPI, 300DPI × 600DPI, 300DPI × 1200DPI
Card thickness	0.25~1.25mm (10 - 40 mil)
Card type	PVC, ABS, PET, PET-G, TESLIN, Composite material, 85.6mm×53.98mm (ISO ID-1/CR-80) 83.8mm×51.8mm
Card feeding capacity	Automatic feed from Card Cassette: 100 pieces of 0.76mm thickness cards; Manual card feed: single piece; Front output: 100 pieces of 0.76mm thickness cards
Card feeding system	Automatic feed from Card Cassette Manual feed, sing card (rear end)
Card ejecting	Front/Back
Ribbon	YMCKO Ribbon(300/400/500 Images per Roll) 1/2(YMC)KO Ribbon(500/600 Images per Roll) 1/2(YMC)KOKO Ribbon(350 Images per Roll) YMCKOK Ribbon(400 Images per Roll) YMCKOO Ribbon(400 Images per Roll) KrO Ribbon(700 Images per Roll) K-only/K2-PLASTIC/K3-PAPER/WHITE SPECIAL/W2 Ribbon(150m/roll) CR80 card 100% layout: approx 1600 cards/roll CR80 card 80% layout: approx 2000 cards/roll CR80 card 50% layout: approx 3100 cards/roll CR80 card 25% layout: approx 5600 cards/roll
Print speed	Single-sided: color (YMCKO): 200 cards/hour, K-only: 590 cards/hour Double-sided: color (YMCKO): 100 cards/hour, color (YMCKOK): 140 cards/hour
Security feature	Ribbon encryption RFID
User friendly operation interface (automatic card entering function)	Easy to handle parts, include quick change of Ribbon. Automatic feed from Card Cassette
Connection	USB (1.0, 1.1, 2.0) Ethernet 10/100Base-T USB-HUB

Built-in System Board	CPU: STM32MP131
	Memory: DDR3L Standard: 256MB Optional: 512MB, 1GB
	Storage: NAND Standard: 256MB Optional: eMMC 8GB, 32GB
System board operating system	Linux System (Linux stm32mp157d-ev1 6.1.28)
Option	Wireless Communication 2.4G/5G Version 5.0 low-power wireless protocol
	CardEditor software Duplex, Encoding - Mag stripe, Contact, Contactless smart card Mechanical lock (consumables, card slot, card cassette), Kensington lock
	Consumable: Dascom certified Ribbons with Intelligent Technology Automatic printing settings and adjustment
	Cleaning suit: DASCOM cleaning kit; (Cleaning card; Cleaning Roller with viscosity)
Supported OS	Windows XP / Vista / 7 / 8 / 10 / 11, 32&64bit OS
Power source	Adaptive AC 100~240V, 50/60Hz
Dimension(mm)	365×150×288.5
Weight	4.8Kg
Operation panel	LCD Display + button
Operating environment	Std Temperature: 15°C-35°C, 59-95 F Std Humidity: 20-65% RH Lowest/Highest operating temperature and humidity: 0°C/40°C, 20%/65% RH
Storage environment	Temperature: -5°C-70°C, 23-158 F Humidity: 20-70% RH

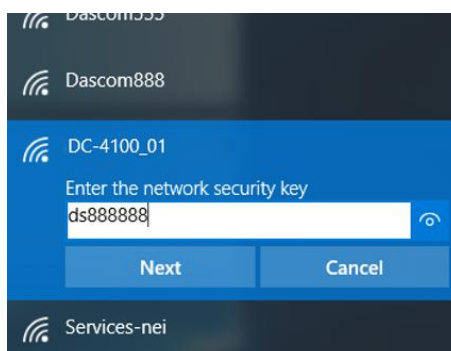
Appendix I: Wireless Communication (optional)

1. Connect the printer Wireless Communication (default name is "DC4100-01", default password is "ds888888", default IP address is "192.168.18.1")

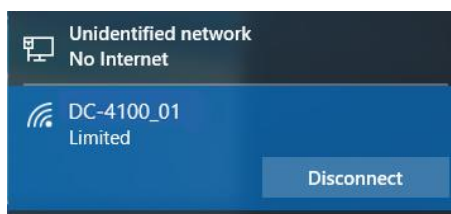
1.1 Search for Wireless Communication name in network Settings, select "DC4100-01", and click "Connect".



1.2 Enter password "ds888888" and click "Next".



1.3 If the following picture appears, the connection is successful.



2. After the connection is complete, install the network port driver by referring to the driver description.

3. According to the CardEditor instructions, edit the data to send for printing.

×

Card Printing

Printer:

DASCOM DC-4100

▼

↺

Advanced Options

Amount of Cards:

−

1

+

Number of Copies:

−

1

+

Front printed layer

☒ Content

Back printed layer

☒ Content

☒ Print black elements

Close

Print

Appendix II FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - i. This device may not cause harmful interference.
 - ii. This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



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 Dascom 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:

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

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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