



User Manual

DL-2210 Thermal Label Printer



Important Safety Instructions (English)

Read the following instructions thoroughly before starting up your printer.

- Never carry out maintenance or repair work yourself. Always contact a qualified service technician.
 - Keep this Operator's Manual in a place which is easily accessible at all times.
 - Place the printer on a solid and even base so that it cannot fall.
 - Never place the printer in the vicinity of inflammable gas or explosive substances.
 - Ensure the printer is connected to a socket with the correct mains voltage.
 - Always disconnect the printer from the mains before opening the device to perform maintenance work or remedy errors.
 - Do not expose the printer to high temperatures, direct sunlight or dust.
 - Keep all liquids away from the printer.
 - Protect the printer from shock, impact and vibration.
 - Make sure that both of the printer and the 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 your customer support.
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Wichtige Sicherheitshinweise (German)

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

- 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.
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Consignes importantes de sécurité (French)

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

- 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.
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Indicazioni di sicurezza importanti (Italian)

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

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.
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Instrucciones de seguridad importantes (Spanish)

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

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 base estable de manera que no pueda caer al suelo.
 - Nunca coloque la impresora en la vecindad de gases de fácil inflamabilidad 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 tire la clavija de alimentación del enchufe.
 - 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, deje enfriarlo 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.
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Правила по технике безопасности. (Russian)

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

- 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.

- 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.
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Önemli Güvenlik Talimatları (Turkish)

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

- 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 kablolarını 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.
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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 to operators of DL-2210 to describe basic operation to enable safe and correct use of the 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 loss of data.



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

Related Software and Documents

Related Software and Documents

Software/document name	Description
DL-2210 User Manual	This manual.

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Chapter 1 Introduction

Thank you for choosing Dascom DL-2210 Thermal Label Printer. You can print high-quality label 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 Features

Bar Code to provide professional labeling software for users to choose, With the real bar code printer perfect compatibility, Under the Windows system easy realization each kind of label design and the printing, It is the best scheme to improve the efficiency of label users

Structure design of upper tearing paper, Can correspond to very narrow label tear paper, Respect the user's usage, More convenient to use.

Multiple interfaces are optional. Standard USB interface, optional Ethernet, wireless interface card, Bluetooth interface card, to meet the user's different device connection needs.

This user's manual provides all the information you need to perform your printer's day-to-day operations.

1.2 Printer Specifications

Print Parameter	Print method	Direct thermal
	Print width	Max. 56mm
	Paper width	Max. 60mm
	Resolution	203dpi
	Print speed	Max. 6 inch/s (152mm/s)
	Emulation	ZPL, EPL, TSPL
	Built-in font library	GB18030 font library, ASCII font library
	Built-in barcode	One-dimensional bar code, two-dimensional bar code
	LED indicator	Three LED lights (green, red, red)
	Key	Only One key: Feed
	Buzzer	None
	Paper feeding method	Web, rear folding paper, external support into the paper
	Paper tearing method	Tear paper manually (with a paper knife)
	Convenience function	Auto-heading
Print media	Type	Thermal web (continuous paper, label paper, Black Label Paper), thermal folding paper
	Direction of heat sensitive surface	Out
	Thickness	0.08~0.3mm
	Inner diameter of coil core	No restrictions
	Outside diameter of paper roll	127mm
Sensors	Standard sensors	Open sensor, paper sensor, label sensor, Paper Tear sensor, Black mark sensor
Memory	SDRAM	32M bytes
	Flash	8M bytes
Receive buffer		256Kbytes
Interface	Standard	USB 2.0
	Optional	Dual-mode Bluetooth 4.0, IEEE 802.11 b/g/n WIFI, Ethernet port choose one of three

Environmental parameters	Operating condition	5~40℃ 30~80%RH(non-condensing)
	Storage condition	-10~50℃ 10~90%RH(non-condensing)
Physical Spec	Dimensions	254*113*171mm
	Weight	About 1.7 kg
Fall		1.0 metre
Power Supply	Input	AC 100~240V, 50~60Hz, 2.0A
	Output	DC 24V , 2.2A
Optional attachments		Cutter(for small receipt, label and wristband), peeler
Certification		CE
Noise		Less than 65 dB
Software	SDK	Android, IOS
	DEMO'S	Android, IOS
	Driver and intelligent assistant	Windows Vista/XP/7/8/8.1/10 (32bit/64bit)

1.3 Consumables



Important: Use genuine media to ensure the best print quality. The special designed paper, polyethylene and polyester media improve the performance and the print head life.

Your printer can use a variety of media types:

wristband media-most standard wristbands are heat-sensitive and are about 0.2-0.3 mm thick. Each wristband has a paper tearing position, and a row of positioning holes in the middle, for adjusting the wearing of elastic.

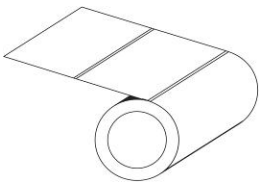
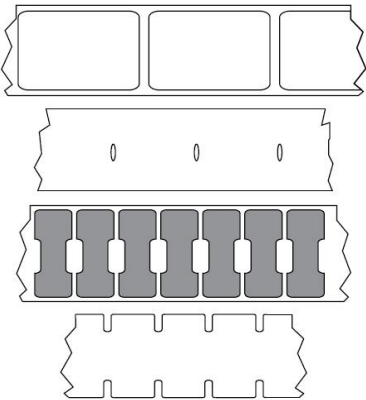
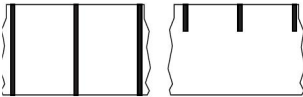
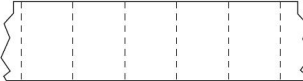
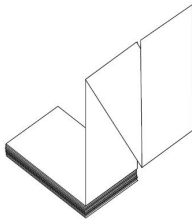
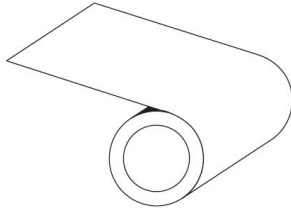
Standard media-most standard discontinuities use adhesive materials that allow multiple individual labels or continuous labels of a certain length to be attached to the backing.

Continuous roll media-most continuous roll media are thermally sensitive (similar to fax paper) and are suitable for receipt or ticket printing.

Label material-labels are usually made of thick paper (up to 0.0075 in/0.19 mm). The label material is not adhesive or backing and is usually pre-perforated between each label.

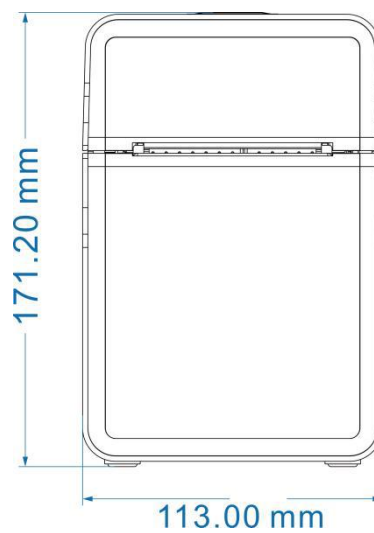
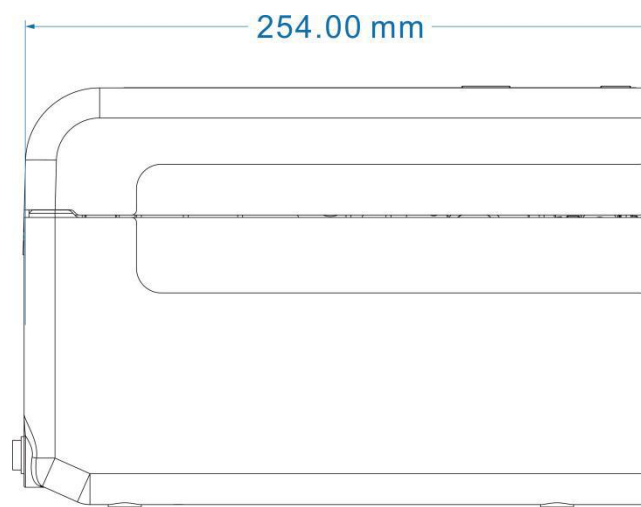
For more information about basic media types, see the following table.

Printers generally use volume media, but they can also use folding media or other continuous media. The right medium must be chosen for the type of print required, and the thermally sensitive medium must be used.

Medium type	Appearance	Description
Discontinuous paper roll media		<p>The roll media can be wrapped around a paper core 12.7 to 38.1 mm (0.5 to 1.5 inches) in diameter. The label is provided with an adhesive that allows the label to be glued to the lining. The label is separated by a gap, notch, cut or black mark. The labels are separated by perforations. The individual labels are separated by one or more of the following methods:</p> <p>The meshes are separated by slits, cuts or notches</p>  <p>The black label medium displays the label separation position on the back of the medium using a pre-printed black label</p>  <p>The pre-perforating medium has perforations that enable easy separation between the label or the label material. The media may also have black marks or other separations between the labels</p> 
Discontinuous folding medium		<p>A folded medium folded in a staggered manner. The folded media can be split in the same manner as the discontinuous media volume. The split position may be at or near the fold</p>
Continuous Roll Media		<p>The roll media can be wrapped around a paper core 12.7 to 38.1 mm (0.5 to 1.5 inches) in diameter. Continuous volume media does not have gaps, cuts, notches, or black markers to indicate where labels are separated. You can print an image anywhere on the label. You can use a paper cutter to cut the sheet label. If a continuous medium is used, a transmission (gap) sensor should be used so that the printer can detect the output of the medium</p>

1.4 Size and Weight

- Width: ~113 mm
- Length: ~ 254 mm
- Height: ~171.2 mm
- Weight: ~1.7kg

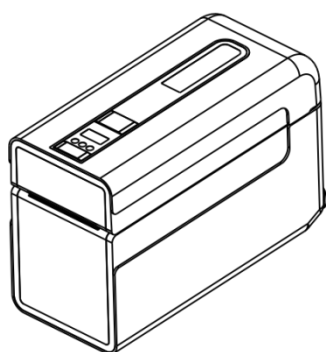


1.5 Unpacking

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 you found any damage, please contact the carrier and notify your authorized Dascom reseller to realize the steps to be taken.



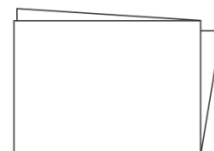
When repairing the printer, you must provide the complete original package (outer crate, wedge and package). If send back the printer without original package, or the accessories are damaged in transit, the warranty of accessories will be invalid. The new packing charge for the printer will be charged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



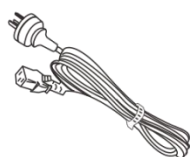
Printer



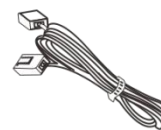
AC Adapter



Installation Guide



Power Cord



USB Cable

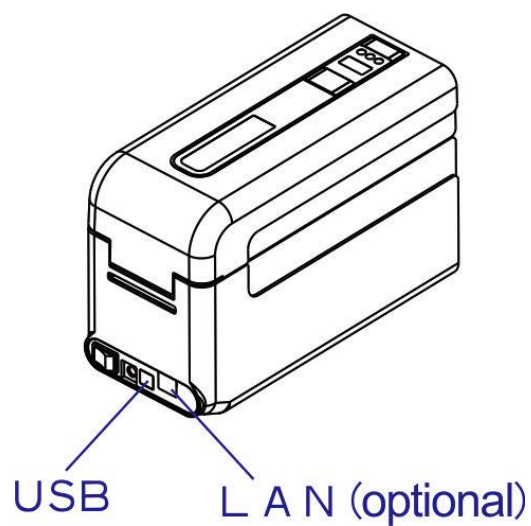


The package contents vary with different customized order requirements.

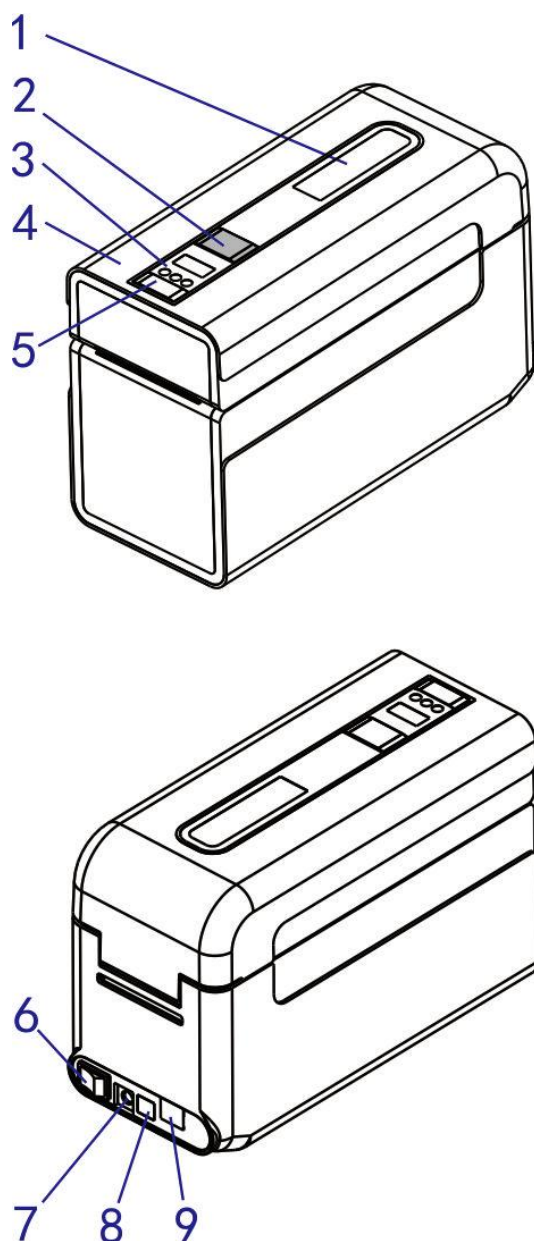
Package Contents:

Parts	Quantity	Remark
Printer	1 unit	
Power cord	1 piece	
USB cable	1 piece	
Graphic Installation Guide	1 piece	

1.6 Standard/optional components for the product



1.7 Key components



No.	Part Names	Descriptions
1	Perspective window	Through this window at any time to understand the printing volume margin
2	Key to open the lid	Press this button to open the upper cover
3	Control Panel (LED indicator)	Reflect the current working state of the prototype
4	Top cover	Open this cover and replace the roll
5	Feed Key	Press this button to move the paper
6	Power Switch	Turn on and off the printer
7	Power Socket	Socket for detachable power cord.
8	USB Interface	USB connection to PC (ex-factory standard interface)
9	LAN Interface	LAN connection to the server (Ordered separately)

1.8 Light instructions

1.8.1 Indicates lights status

Lights	Indicates lamp status	Descriptions
Status Light	The 1 # light is always on	The printer is on and on standby
	1,2,3 # lights are always on	Boot the firmware
	1 # lights flicker	The printer is paused
	1,2,3 # lights always go out	Shut down or malfunction
	1 # lights flicker, 2 # lights often	The printer is out of paper
	1,3 # Light is always on	Print header component open status
	1 # light often bright, 3 # light flashing	No sign or tearing error detected
	1 # light flashes, 2 # light flashes quickly	Print head high temperature error
	1 # light often bright, 2,3 # light flicker alternately	Enter the write version state
	# 1, # 2, # 3 lights flicker	Error in version update
	Green breathing light	Energy saving mode

In continuous paper mode, press the feed key to run 1 line (30 steps) ;

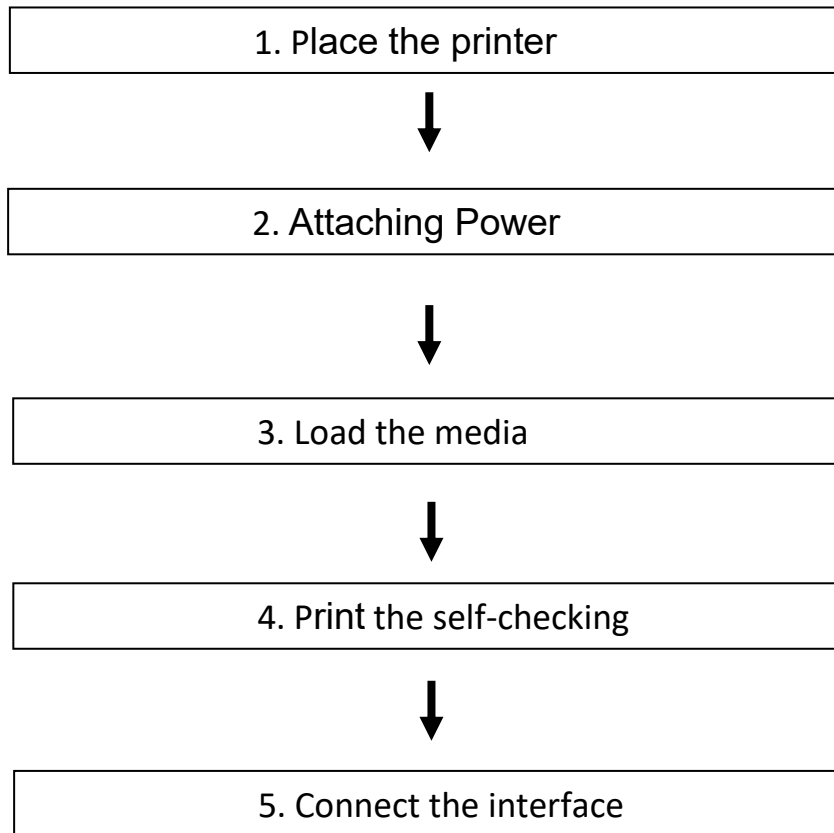
In continuous paper mode, press the feed key to run 1 line (30 steps) ;

In label paper mode, to run 1 line (30 steps) , press Enter Paper Key, go a label paper length;

Label paper mode, standby, press enter paper key do not let go, do not go label paper.

Chapter 2 Installation

2.1 Recommended installation procedures



2.2 Suitable installation site

Consider the following factors to choose the site to install the printer:

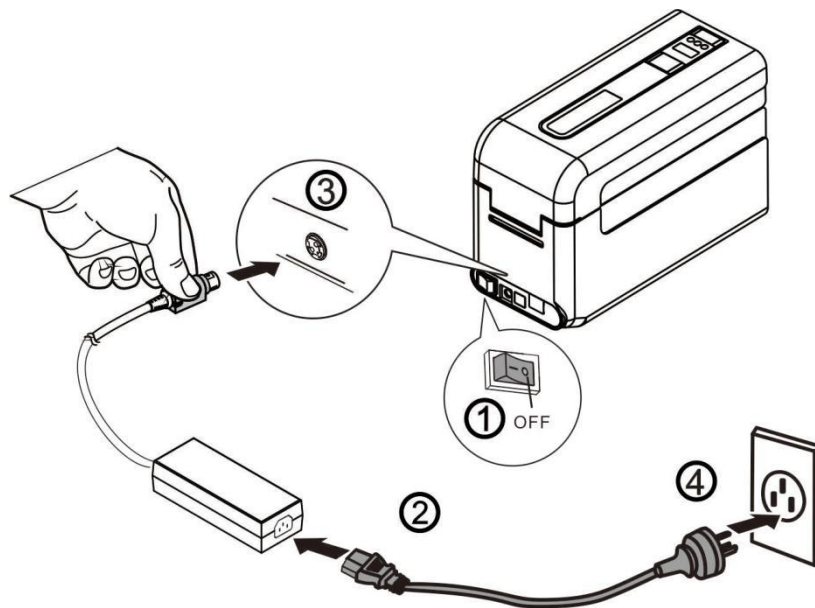
1. Install the printer on a solid, level and stable workbench surface.
2. Sufficient space around the printer to provide good ventilation, stack the printout, access the control panel, replace the media, and carry the maintenance.
3. Avoid heat and damp sources.
4. Avoid an environment close to vibration and shock.
5. Ensure the power source is securely grounded.

2.3 Connect the power



Important: Check the voltage rating of the power source complies with that of the printer; incorrect voltage of the power source may cause hazard and damage the printer.

1. Switch off both the PC and the printer.
2. Connect the connector of the detachable cable to the printer power socket.
3. Connect the power plug to the wall socket.
4. If media are installed, toggle the power switch to ON position to turn on the printer and the power LED will light up.



Important:

1. Please use the original power adapter or equivalent product.
2. Hold the power plug to unplug the power.
3. Pulling the power cord by force to unplug the power may break the power cord causing fire and electric shock.
4. Avoid placing power adapters around overheated equipment, otherwise the surface of the cable will melt, causing fire and electric shock.
5. Turn off the power if the printer is not in use for long period.



2.4 Load the media

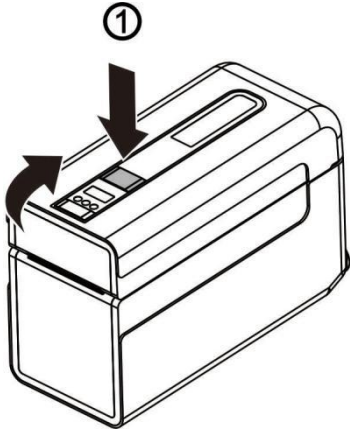
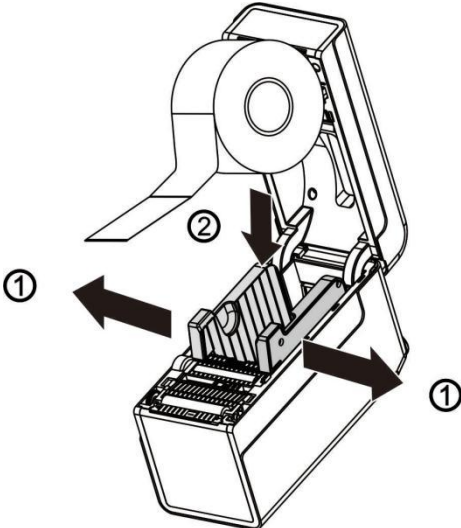
2.4.1 Loading procedures

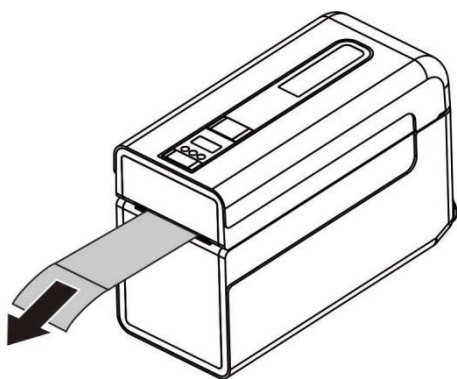


Please identify the media requires. Only temperature sensitive media do not require ribbons.

Caution: To prevent media jam, always align the media to the middle side of the printer.

To determine whether the medium is a thermally sensitive material, use a fingernail or pen cap to scrape the printed surface of the medium. If no black marks appear on the medium, then the medium for thermal transfer material, the need to use carbon tape. If a black mark appears on the medium, the medium is thermally sensitive and no carbon tape is required. Carbon tape printing is not supported on this machine.

	<p>(1) Open the top cover.</p>
	<p>(1) Open the paper clip and open the paper clip assembly</p> <p>(2) Load the clammed roll into the media compartment.</p> <div data-bbox="963 1805 1034 1877"></div> <p>Important: The printing surface faces upward.</p>



(1) Install safely

Making a media calibration ensures the printing starts with the correct position on the fresh media. Hold the Feed Key and then turn on the power. After the Status Light green flash twice, release the key into the paper that into the label Calibration Link. Make sure that the paper type with the paper sensor setting item is set correctly, and that the sensor is in the correct position.



Make media calibrations for the following situations:

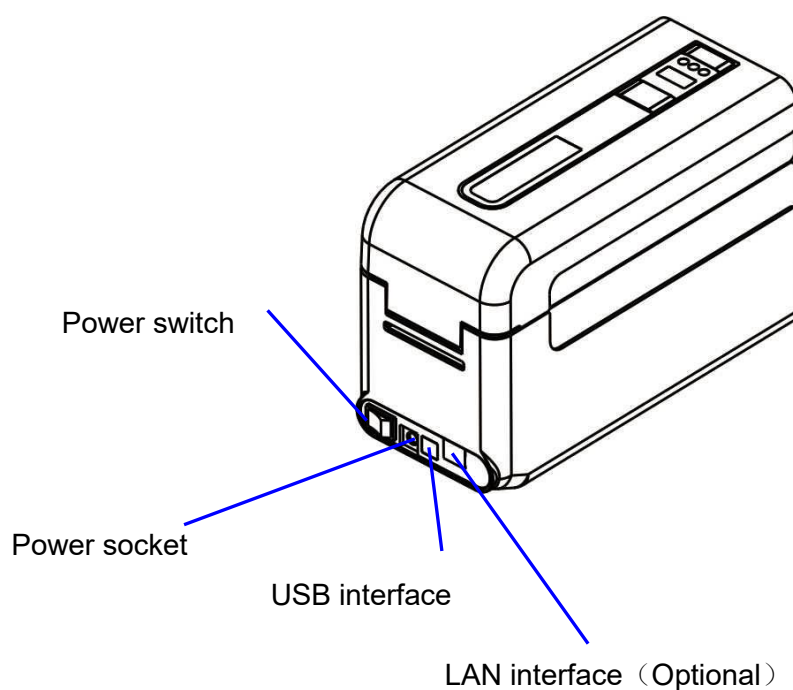
- A fresh media.
- A media with different size from the last print task.
- Blank printout from in-used media.
- Offset printout without changing the settings.

2.5 Connect the interface

This printer provides USB interfaces for standard shipment. LAN option is available. You may decide to install additional interface to the backside of the printer.

The procedures to connect the standard interface:

1. Disconnect or switch off the power supplied to the printer.
2. Plug in one end of the interface cable to the corresponding interface port.
3. Plug the other end of the cable to the PC port.



Parts	Descriptions
Power socket	Connect to the connector on the power cord.
Power switch	Toggle it to turn the printer on or off.
USB interface	Communicate with the PC via USB connection. (standard interface)
LAN interface (Optional)	Communication with the LAN server.

Requirements for interface cables:

To prevent radio emission and interference, completely shielded cable with conductive connector housing should be used. Consider the following factors to reduce emission/interference levels:

- Use short interface cables. (Less than 1.5 m in length is recommended.)
- Separate the interface cable from the power cord.
- Avoid routing the interface cable within the power duct.

The interface cable shall comply with the following specifications:

Interface type	Specifications
USB	USB 1.1/2.0 compatible
Ethernet port	10 Base-T/100 Base-TX compatible

Chapter 3 Software Installation

3.1 Installing the 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.

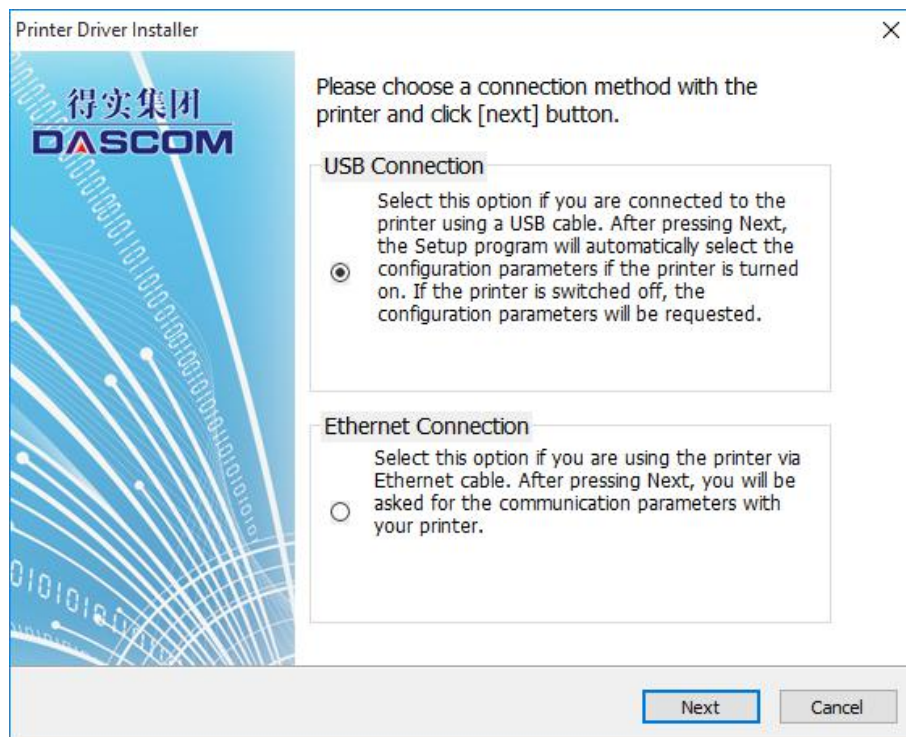
The latest Windows printer drivers can be downloaded from our web:

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

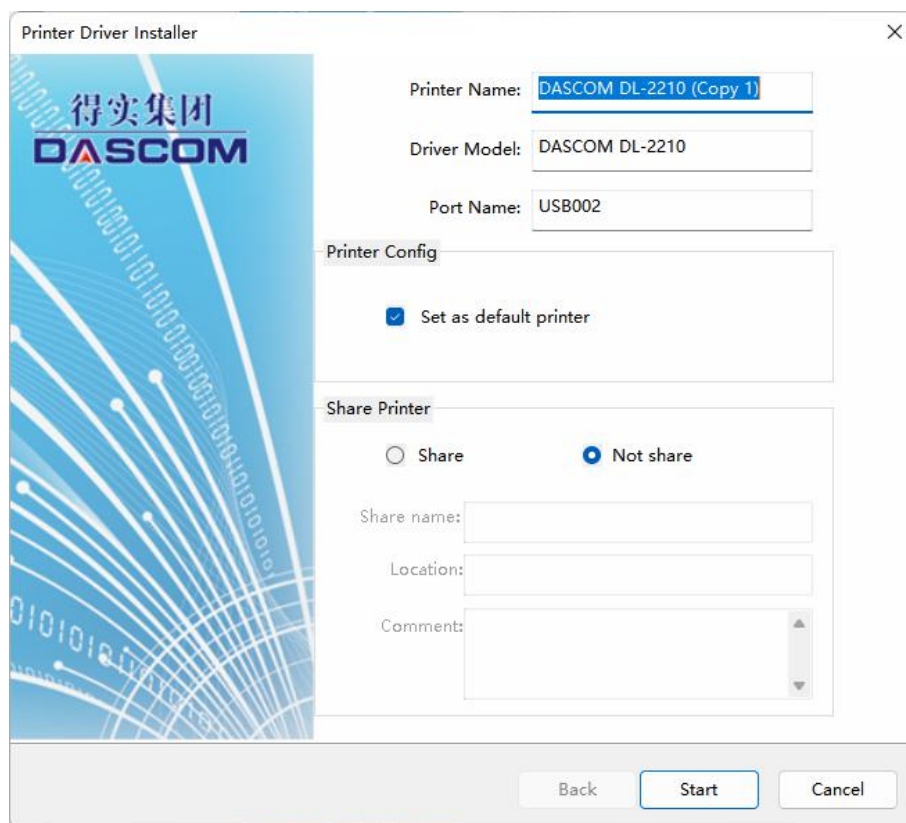
3.1.1 Installing Windows Driver via USB

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) Set up the printer name, click “Start”.



(3) Wait for the installation to finish.



- (4) Click the Finish button once the installation ends.

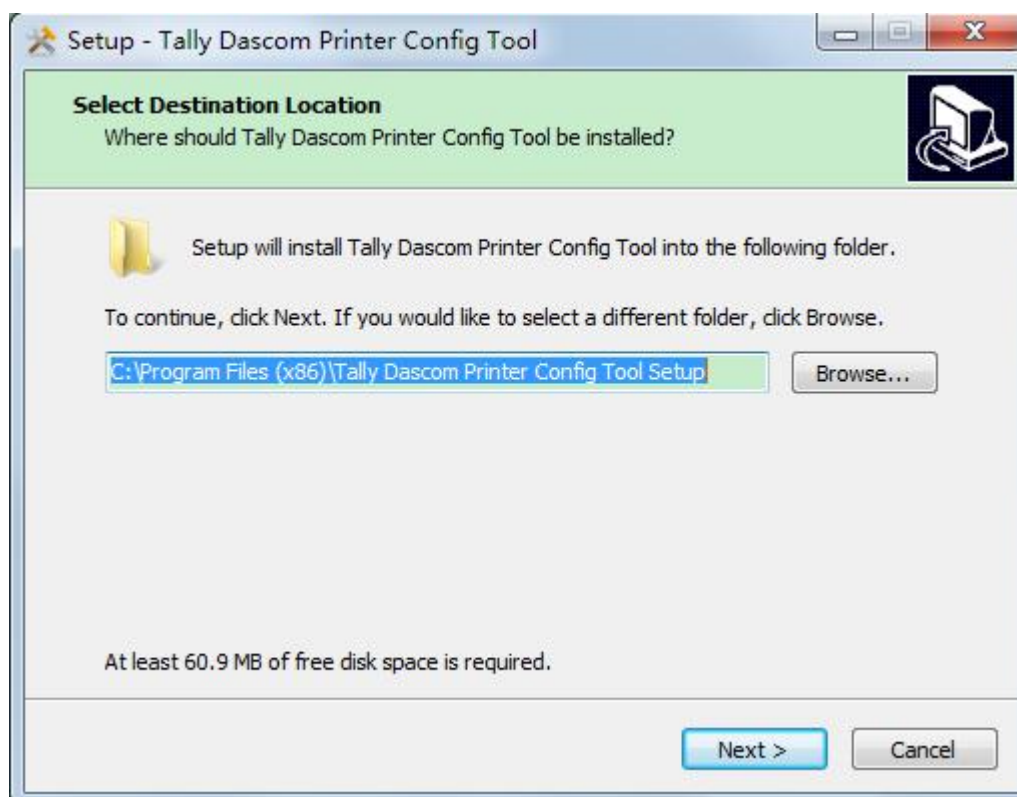


3.2 Installing the Configuration Tool

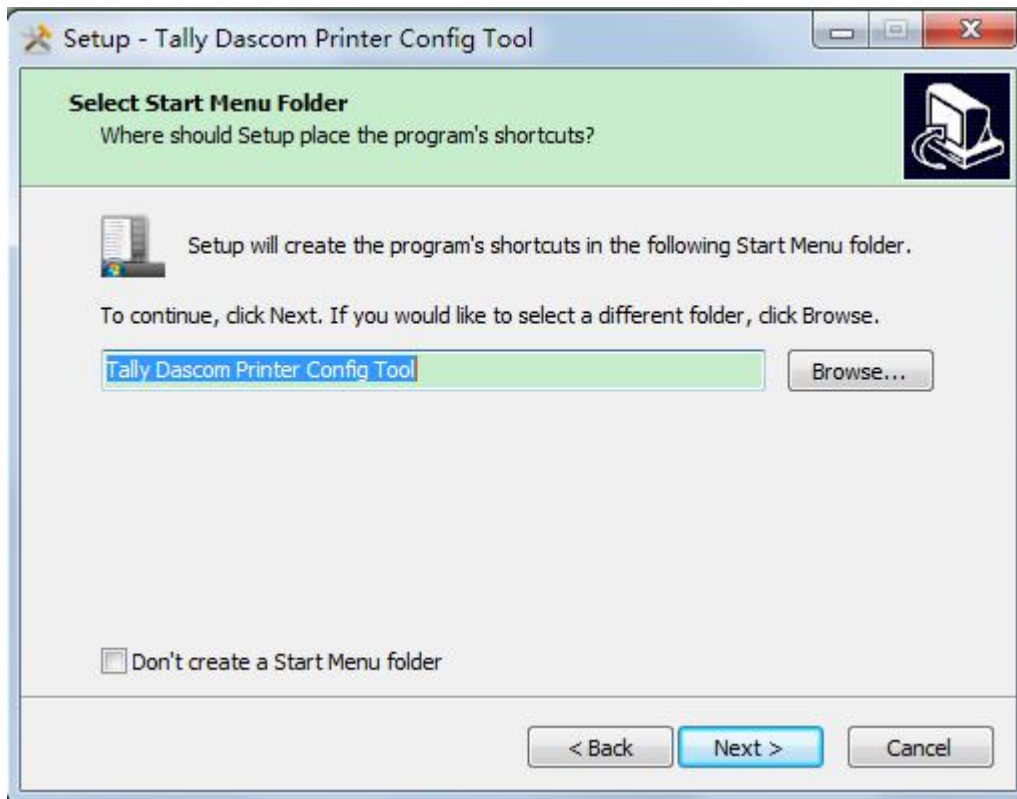
The Configuration Tool package can be downloaded from our web:

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

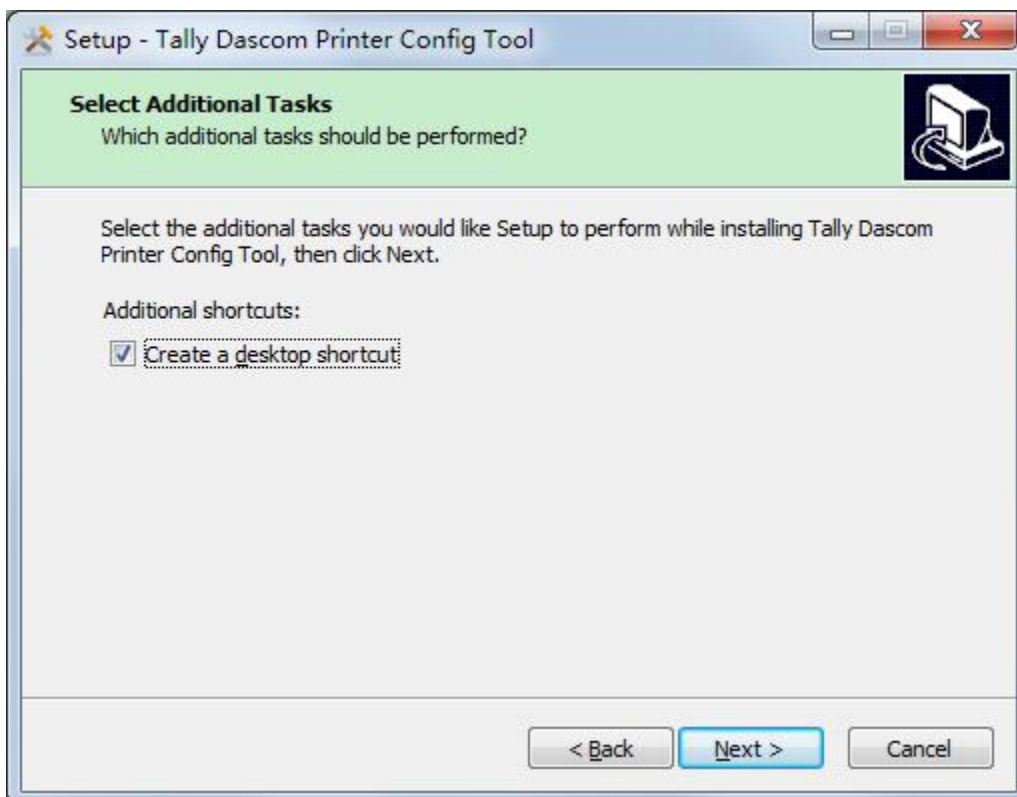
- (1) Specify the installation folder. Then click [Next](#).



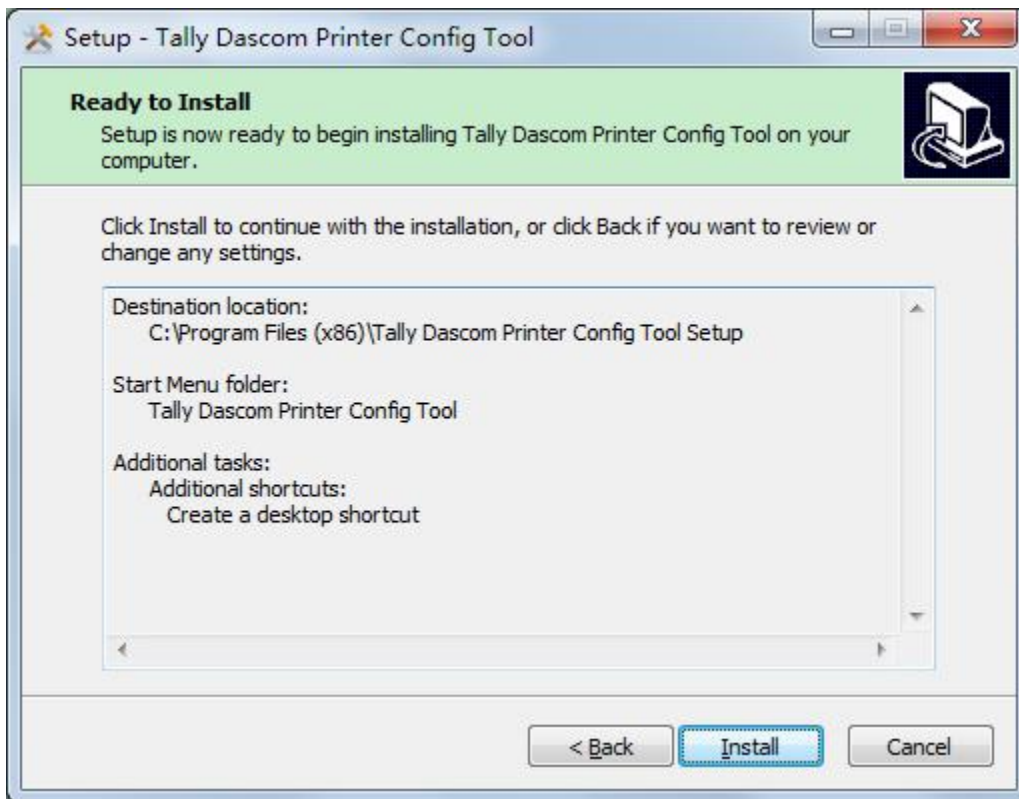
- (2) Decide if you want to create a Start Menu folder. Then click [Next](#).



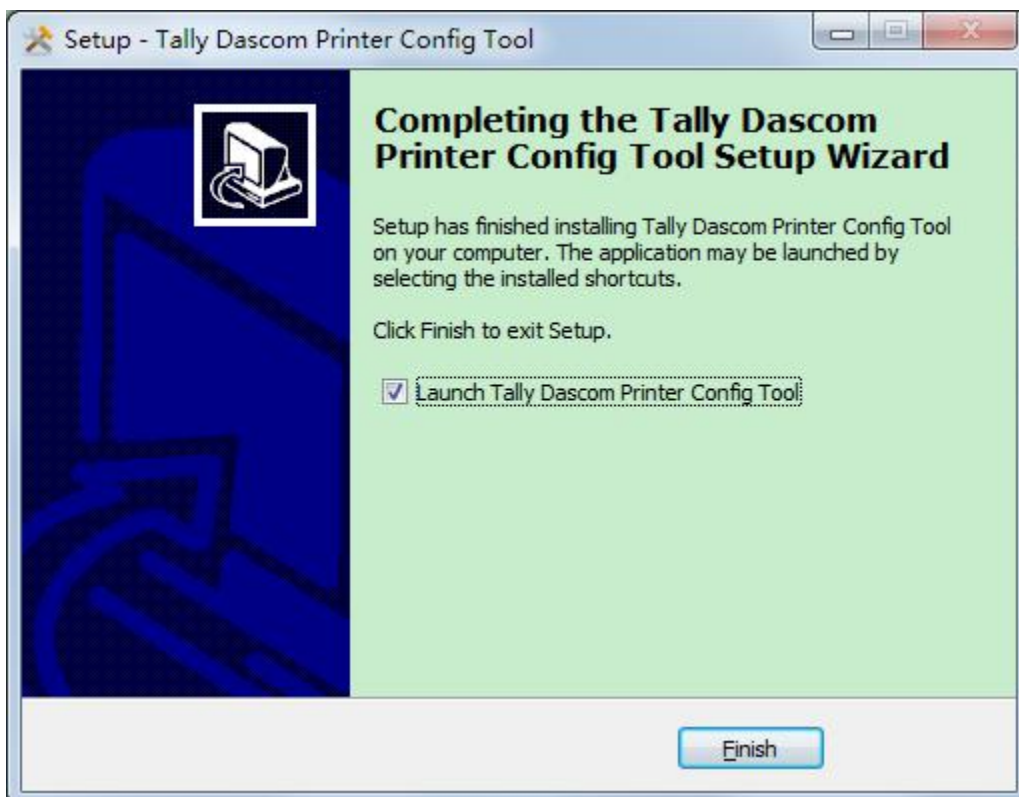
- (3) Decide if you want to create a desktop shortcut for this Configuration Tool.



- (4) Confirm the installation information. Click [Install](#) to proceed.



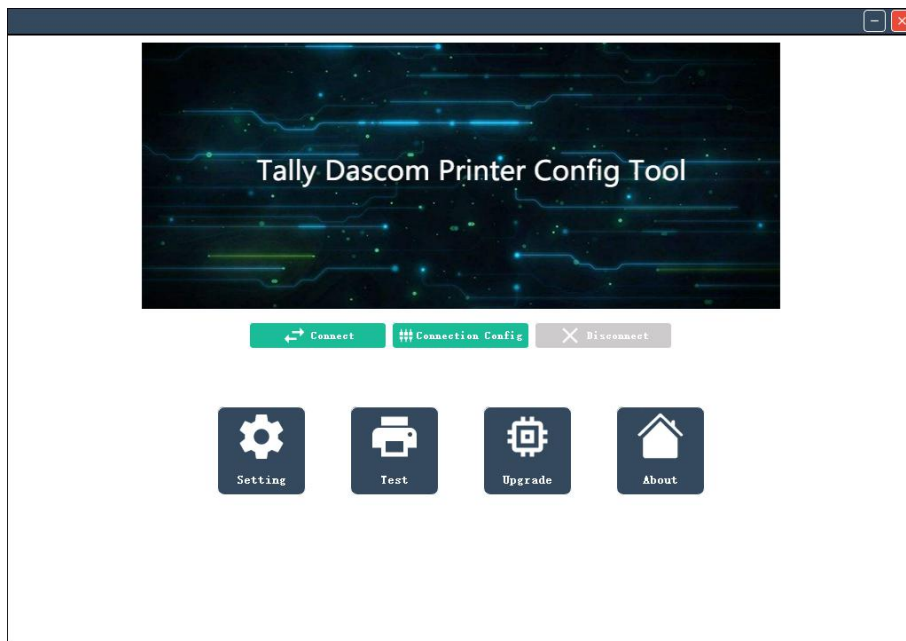
- (5) The Configuration Tool is successfully installed. Click [Finish](#).



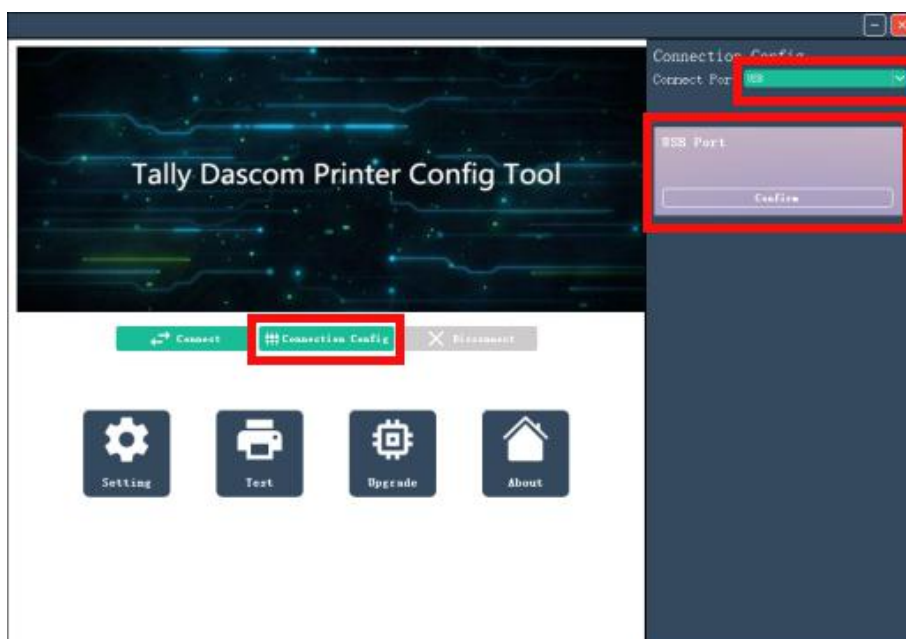
3.3 Using the Configuration Tool

You can conveniently setup the printer for your application or upgrade the firmware with this Configuration Tool.

- (1) Open the “Tally DASCOM Printer Config Tool” and display the following screen. Make sure the printer is on standby and that the port is properly connected.



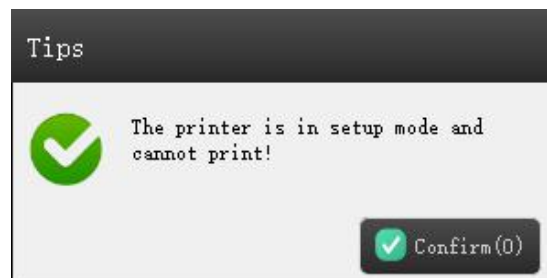
- (2) Click on “Connection configuration”, select the current “Connection port” with the printer in the upper right corner and set the relevant interface parameters.



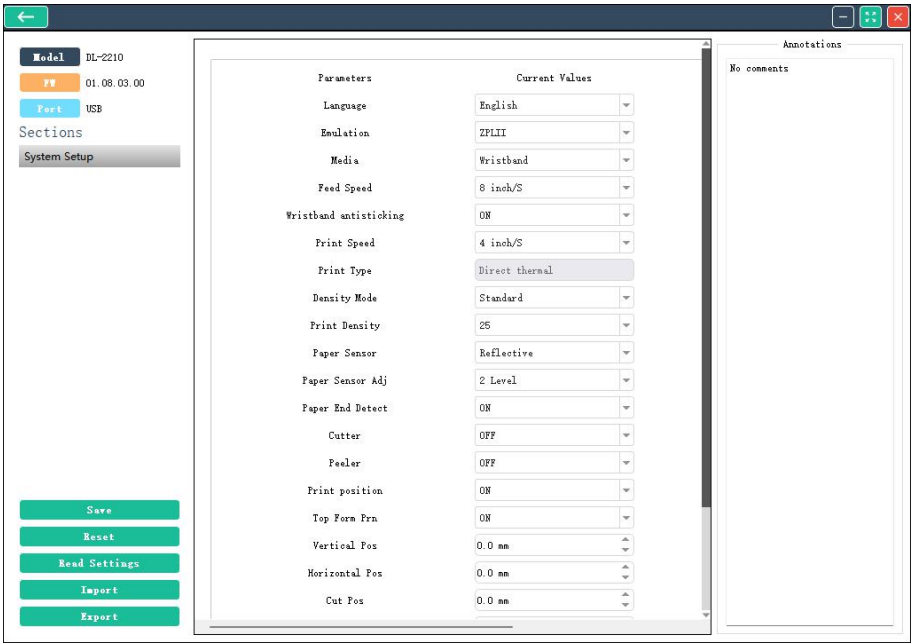
- (3) Click "Connect" first, when the information appears in the left Blue Box (PS: the information about the current printer is in the left blue box) , then click the "Settings" button to change the printer configuration. Take a model as an example, the picture is for reference only, please refer to the actual content



- (4) When you click the "Set" button, the following prompt appears. Please click "Confirm" to continue



(5) Display the following screen, at this point can be related to the printer settings to change.



System settings: settings items may differ depending on the machine version.

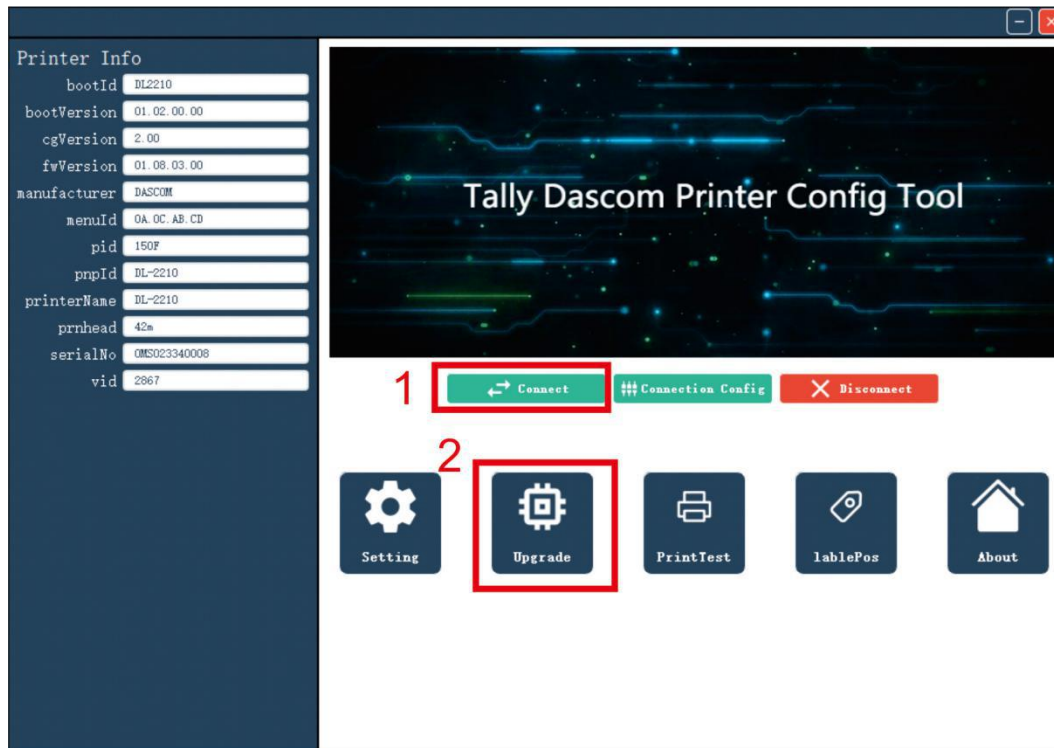
Parameter	Default value	Possible settings
Language	English	<ul style="list-style-type: none"> ◆ English ◆ Chinese
Emulation	ZPLII	<ul style="list-style-type: none"> ◆ ZPLII ◆ TSPL ◆ EPL
Media	Wristband	<ul style="list-style-type: none"> ◆ Label ◆ Continuous ◆ Wristband
Feed Speed	8 inch/S	<ul style="list-style-type: none"> ◆ 2 inch/S ◆ 3 inch/S ◆ 4 inch/S ◆ 5 inch/S ◆ 6 inch/S ◆ 7 inch/S ◆ 8 inch/S
Wristband antisticking	ON	<ul style="list-style-type: none"> ◆ OFF ◆ ON
Print Speed	4 inch/S	<ul style="list-style-type: none"> ◆ 2 inch/S ◆ 3 inch/S ◆ 4 inch/S ◆ 5 inch/S ◆ 6 inch/S
Print Type	Direct thermal	<ul style="list-style-type: none"> ◆ Direct thermal
Density Mode	Standard	<ul style="list-style-type: none"> ◆ Standard ◆ Enhancel
Print Density	25	<ul style="list-style-type: none"> ◆ 1 ◆ 2 ◆ 3 ◆ 4 ◆ 5 ◆ 6 ◆ 7 ◆ 8 ◆ 9 ◆ 10 ◆ 11 ◆ 12 ◆ 13 ◆ 14 ◆ 15 ◆ 16 ◆ 17 ◆ 18 ◆ 19 ◆ 20 ◆ 21 ◆ 22 ◆ 23 ◆ 24 ◆ 25 ◆ 26 ◆ 27 ◆ 28 ◆ 29 ◆ 30 ◆ 31 ◆ 32 ◆ 33 ◆ 34 ◆ 35 ◆ 36
Paper Sensor	Reflective	<ul style="list-style-type: none"> ◆ Reflective ◆ Gap Sensor
Paper Sensor Adj	2 Level	<ul style="list-style-type: none"> ◆ 1 Level ◆ 2 Level

		◆3 Level ◆Auto
Paper End Detect	ON	◆OFF ◆ON
Cutter	OFF	◆OFF ◆ON
Peeler	OFF	◆OFF ◆ON
Print Position	ON	◆OFF ◆ON
Top Form Prn	ON	◆OFF ◆ON
Vertical Pos	0.0mm	Range: -200 ~ 31mm (min adjustment unit 0.1)
Horizontal Pos	0.0mm	Range: -28 ~ 28mm (min adjustment unit 0.1)
Cut Pos	0.0mm	Range: -360 ~ 45mm (minimum adjustment unit 0.1)(varies according to location data)
Black AD	300	0~4095
TearPOS Time	OFF	◆OFF ◆1S ◆3S ◆5S ◆10S
Priority	CMD first	◆Menu first ◆CMD first
USB ID	ON	◆OFF ◆ON

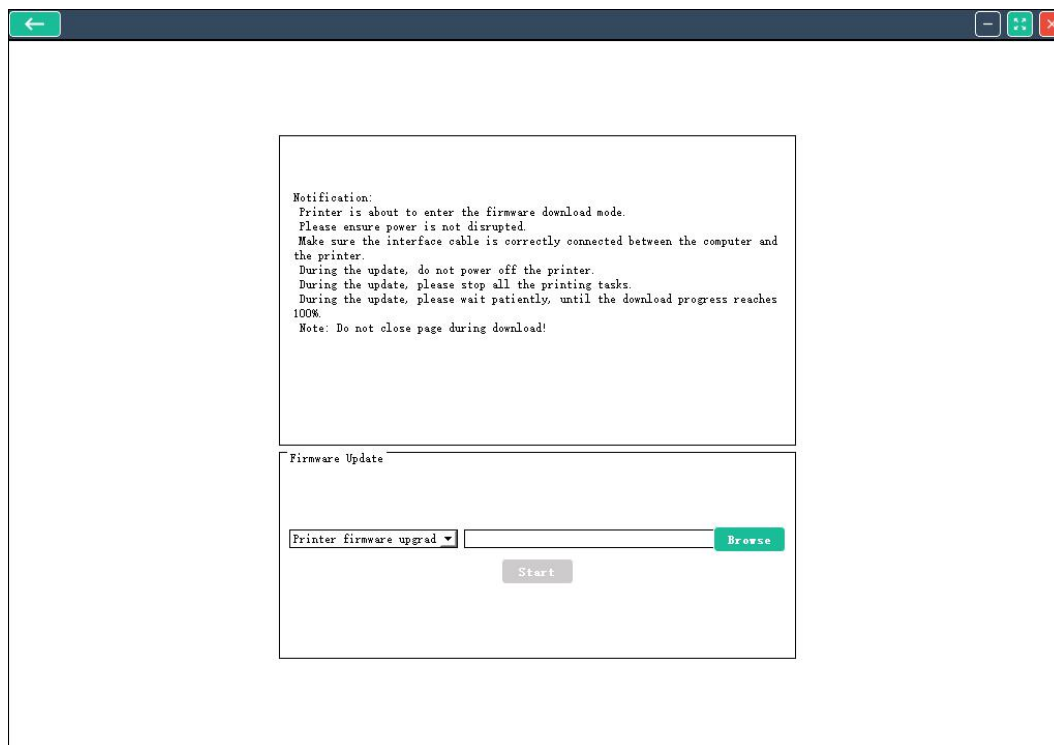
(6) When the settings are changed, click“Save” in the lower left corner, and the window will pop up. Just click“Restart printer”. When the printer restarts, the setting takes effect.

3.4 Upgrading the Firmware

- (1) Connect the printer to the PC with an USB cable. Click [Upgrade](#) in the Config Tool menu.



- (2) Locate the firmware file by clicking [Browse](#). Then click [Start](#). A message box pops up to ask for confirmation; click [Confirm](#).



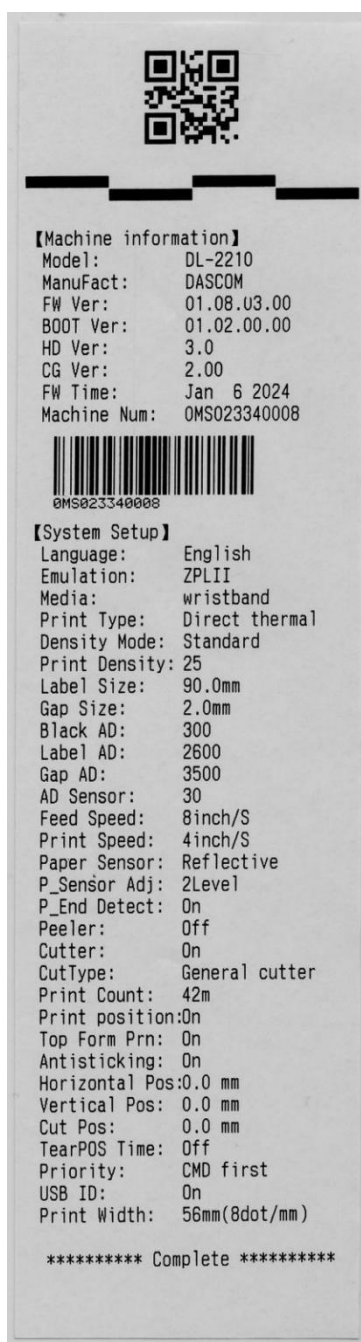
- (3) When the progress bar reaches 100%, the upgrade process is completed and the printer will be restarted.

Chapter 4 Support Utilities

4.1 Configuration list (self-test page)

Listing the configurations helps to confirm the printer is properly setup. The procedures to print out this configuration list:

1. Properly load the media. Close the top cover. Turn off the power.
2. Hold the Feed Key when turn on the printer.
3. Release the Feed Key after the Status LED first flashes green light. The printer then prints out the configuration list.



4.2 Hex-dump

If the printer fails to print online but can print the configuration list offline, you may set the printer to operate in hex-dump mode to check the communication between the PC and the printer. Feedback any problem to our customer support with this hex-dump list.

The procedures to set the printer operating in hex-dump mode:

- Hold the Feed Key when turn on the printer. Release this key after the Status LED flashes green light 3 times.

4.3 Auto media registration

If the media sensors are properly setup, the printer can detect and automatically register the media to proper position.

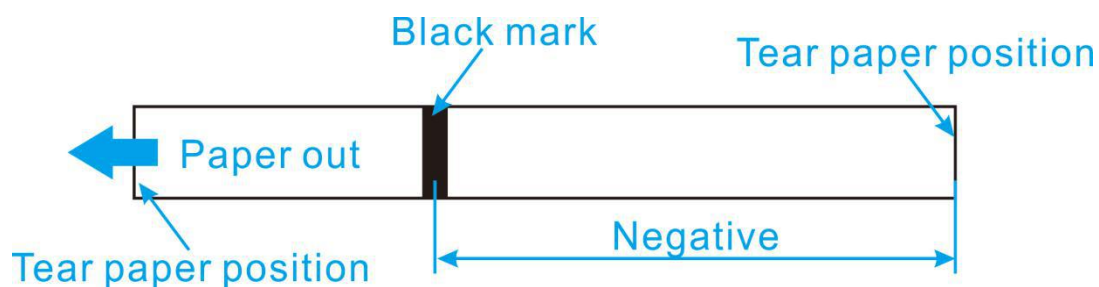
1. Ensure the media is loaded correctly.
2. After turn on the printer or lock the print head, the printer automatically carries the media registration processes.

4.4 Adjustment the paper tearing position

When the tearing position is not correct, through the “Tearing position adjustment” function to adjust. (the following gives “Wrist band” adjustment method reference) adjustment method: use the intelligent assistant to adjust.

Case 1: If your wristband black mark is right in the middle of the wristband, adjust it with a negative value as shown below.

Note: In general, please set the value of “Vertical print bit adjustment” to the same value as “Paper tearing bit adjustment”.



Case 2: If you encounter any deviation after positioning, please use positive or negative values to adjust.

The wristband tearing position is outside the machine, please set the positive value.

2. The wristband tearing place is in the machine, please set the negative value.

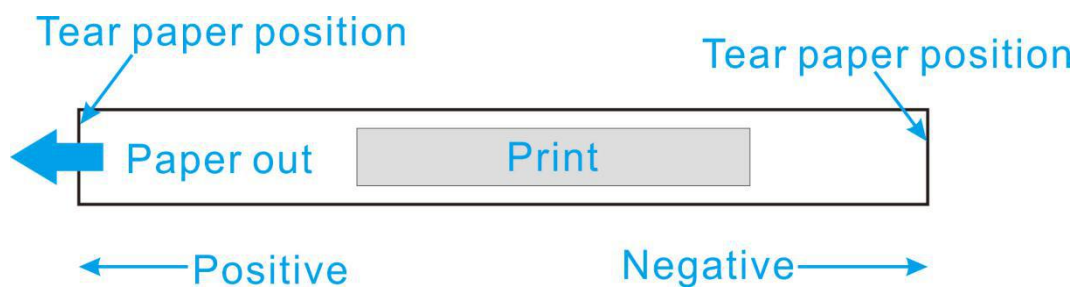
4.5 Vertical print bit adjustment

When the vertical print bit error, through the “Vertical print bit adjustment” function to adjust.

Adjustment method: use the intelligent assistant to adjust.

Scenario 1: when the vertical print bit adjustment is set to a positive value, your print content will be offset downward, as shown in below.

Scenario 2: when the vertical print bit adjustment is set to a negative value, your print content will be offset upward, as shown in below:



4.6 Horizontal print bit adjustment

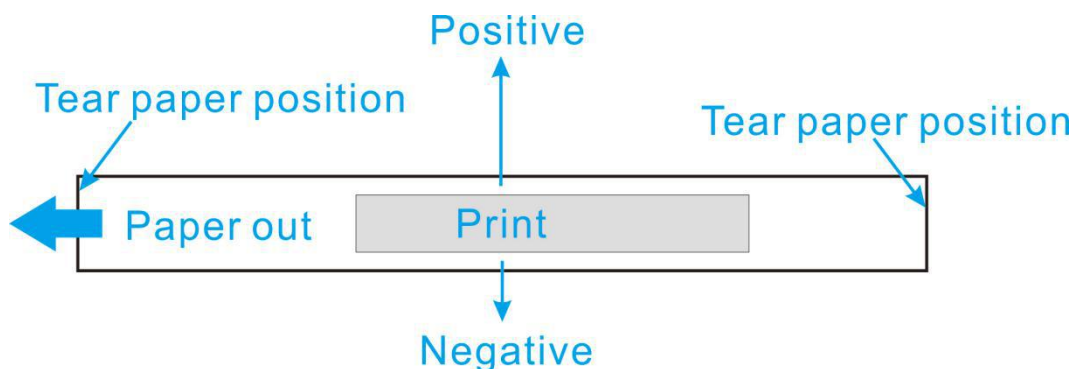
When the printed content is not in the center of the label, through the “Horizontal print bit adjustment” function to adjust.

Adjustment method: use the intelligent assistant to adjust.

Case 1: facing the printer outlet, content offset to the left is positive;

Case 2: facing the printer outlet, content offset to the right is negative.

Note: This feature affects the maximum print width.



4.7 Wrist band speed away paper

This feature is turned on when the printer “Print media” is set to a wristband.

Due to the long length of the wristband, the printing height is short, in order to improve the overall printing speed, the setting can be set on a separate paper speed.

4.8 Priority setting

This setting only works for print density and print speed.

Menu priority: the printer does not handle the “Print density” or “Print speed” parameters set in the driver. In actual printing, use the parameters in “Smart Assistant for new real printer”.

Instruction First: the printer will set in the drive “Print density” “Print speed” parameters for processing.

Chapter 5 Diagnostics and Maintenance

This printer is highly reliable. For precaution, this chapter recommends solutions to problems.

In the meantime, we describe some guidelines to maintain the printer in good conditions.

Follow the safety guideline to prevent harms to the operators and the printer.

5.1 Error indicator light

When the printer is out of order or paper jam occurs, and the indicator light of the paper feed key is on or flashing, the type of failure can be indicated.

In error condition, press the feed key to cancel the error instruction.

Faults	Probable Causes	Recommended Solutions
The indicator light is not on	The power cord is not connected properly	Check the connection of the power cord and connect it correctly
	The power switch is not on	Turn on the power switch
	The circuit board is damaged	Contact with after-sales service
2 # light are always on	Paper out	Replace the new roll
3 # light are always on	The print head component is open or unlocked	Tighten the print head assembly
3 # light flicker	No sign or tearing error detected	Ensure that the paper sensor position is correct; ensure that the mode is set correctly; ensure that the sensor is clean
The # 2 light flashes quickly	Thermal head overheating	Turn off the printer power and wait for the print head temperature to return to normal before printing.
# 1, # 2, # 3 lights flicker	Error in version update	

5.2 Troubleshooting

When the machine fails, please take appropriate measures according to the following table to eliminate the failure.

If failure can not be resolved, please notify the distributor or maintenance personnel of this machine.

Faults	Probable Causes	Recommended Solutions
Poor or smudged printing	The roll is not installed correctly	Check that the paper is properly loaded
	The paper does not meet the requirements	Use the recommended rolls
	Print head or print cots dirty	Clean the print head or print cots
	Low print density setting	Increase the print concentration to the desired level
Unable to print self-check page	Hardware failure	Contact with after-sales service or technical support
The paper can not output properly	Paper Jam	Remove the Jam
A blank label appears during continuous printing	The label positioning is not accurate or the label specification setting is not consistent with the actual	Perform label Verification and check that label specification settings are correct.
The label size is set correctly but the print is offset	The label is not positioned correctly.	Perform label verification

5.3 Restore factory default settings

Sometimes restoring factory default settings helps to resolve the problems. There are two ways to do it:

- When turn on the power, hold the Feed key until the power LED flashes 4 times.
- Use the Configuration Tool to restore factory defaults.

5.4 Clear jammed media



Caution: Beware of high temperature near the print head.

Turn off the power. Open the top cover. Unlock and lift the print head.

Clear the card machine paper, check the paper size and force paper between the interval is consistent with, appropriate adjustment force paper between the distance.

Reload the media.

5.5 Clean the print head



-
- Let the head cool down before cleaning.
 - Avoid damage to the head with finger nails or solid objects.
-

Turn off the power. Open the top cover. Clean the head with a cotton swab soaked with alcohol (alcohol, methanol, or isopropyl alcohol).

To get good print quality, clean the head once every 3 months.

5.6 Cleaning

This printer is toughly built to meet heavy load without regular maintenance. However regular cleaning can extend the operating life of the printer.

It is recommended to clean the printer every 6 months or 300 operating hours. Turn off the power and unplug the power cord before cleaning.

- Pick up paper debris by a pair of tweezers.
- Clean up the dust inside by a brush or compact vacuum cleaner.
- Clean up the dirt inside with a clean cloth.
- Clean the platen with a soft cloth.

Avoid damages to or loosening the cable winding and components inside. Avoid metallic objects falling into the electric areas to cause short-circuit.

Chapter 6 Code Pages

6.1 ASCII character set

HEX	0	1	2	3	4	5	6	7
0	NUL 00	DLE 16	SP 32	0 48	@ 64	P 80	` 96	p 112
1		XON 17	! 33	1 49	A 65	Q 81	a 97	q 113
2			“ 34	2 50	B 66	R 82	b 98	R 114
3		XOFF 19	# 35	3 51	C 67	S 83	c 99	s 115
4	EOT 04	DC4 20	\$ 36	4 52	D 68	T 84	d 100	t 116
5	ENQ 05	NAK 21	% 37	5 53	E 69	U 85	e 101	u 117
6	ACK 06		& 38	6 54	F 70	V 86	f 102	V 118
7		CAN 23	‘ 39	7 55	G 71	W 87	g 103	w 119
8			(40	8 56	H 72	X 88	h 104	x 120
9	HT 09) 41	9 57	I 73	Y 89	i 105	y 121
A	LF 10		* 42	: 58	J 74	Z 90	j 106	Z 122
B		ESC 27	+ 43	; 59	K 75	[91	k 107	{ 123
C	FF 12	FS 28	, 44	< 60	L 76	\ 92	l 108	 124
D	CR 13	GS 29	- 45	= 61	M 77] 93	m 109	} 125
E		RS 30	. 46	> 62	N 78	^ 94	n 110	~ 126
F			/ 47	? 63	O 79	- 95	o 111	SP 127

6.2 CP 437 USA

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	á 160	■ 176	Ł 192	┘ 208	α 224	≡ 240
1	ü 129	æ 145	í 161	■ 177	┘ 193	┘ 209	β 225	± 241
2	é 130	Æ 146	ó 162	■ 178	┘ 194	┘ 210	Γ 226	≥ 242
3	â 131	ô 147	ú 163	179	┘ 195	┘ 211	π 227	≤ 243
4	ä 132	ö 148	ñ 164	┘ 180	— 196	┘ 212	Σ 228	┘ 244
5	à 133	ò 149	Ñ 165	┘ 181	┘ 197	┘ 213	σ 229	┘ 245
6	å 134	û 150	a 166	┘ 182	┘ 198	┘ 214	μ 230	÷ 246
7	ç 135	ù 151	o 167	┘ 183	┘ 199	┘ 215	τ 231	≈ 247
8	ê 136	ÿ 152	ı 168	┘ 184	┘ 200	┘ 216	Φ 232	° 248
9	ë 137	Ö 153	┘ 169	┘ 185	┘ 201	┘ 217	Θ 233	• 249
A	è 138	Ü 154	┘ 170	186	┘ 202	┘ 218	Ω 234	• 250
B	ï 139	é 155	½ 171	┘ 187	┘ 203	■ 219	δ 235	√ 251
C	î 140	£ 156	¼ 172	┘ 188	┘ 204	■ 220	∞ 236	n 252
D	ì 141	¥ 157	ı 173	┘ 189	= 205	■ 221	Φ 237	² 253
E	Ä 142	Pt 158	« 174	┘ 190	┘ 206	■ 222	ε 238	■ 254
F	Å 143	f 159	» 175	┘ 191	┘ 207	■ 223	∩ 239	SP 255

6.3 CP 850

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	á 160	176	Ł 192	ø 208	Ó 224	- 240
1	ü 129	æ 145	í 161	177	┘ 193	Ð 209	β 225	± 241
2	é 130	Æ 146	ó 162	178	┐ 194	Ê 210	Ô 226	= 242
3	â 131	ô 147	ú 163	179	┌ 195	Ë 211	Ò 227	¼ 243
4	ä 132	ö 148	ñ 164	└ 180	— 196	È 212	õ 228	¶ 244
5	à 133	ò 149	Ñ 165	Á 181	┘ 197	ı 213	Ï 229	§ 245
6	â 134	û 150	a 166	Â 182	ã 198	í 214	μ 230	÷ 246
7	ç 135	ù 151	o 167	À 183	Ã 199	î 215	þ 231	, 247
8	ê 136	ÿ 152	ı 168	© 184	Ł 200	İ 216	ƒ 232	° 248
9	ë 137	ÿ 153	® 169	185	ŕ 201	ı 217	Ú 233	.. 249
A	è 138	Ü 154	¬ 170	186	┘ 202	ŕ 218	Û 234	• 250
B	ï 139	ø 155	½ 171	187	┐ 203	219	Ü 235	¹ 251
C	î 140	£ 156	¼ 172	188	┌ 204	220	ý 236	³ 252
D	ì 141	Ø 157	ı 173	¢ 189	= 205	ı 221	Ý 237	² 253
E	Ä 142	× 158	« 174	¥ 190	┘ 206	İ 222	— 238	■ 254
F	Å 143	f 159	» 175	191	207	223	‘ 239	SP 255

6.4 CP 860 Portuguese

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	á 160	176	192	208	α 224	≡ 240
1	ü 129	À 145	í 161	177	193	209	β 225	± 241
2	é 130	È 146	ó 162	178	194	210	Γ 226	≥ 242
3	â 131	ô 147	ú 163	179	195	211	π 227	≤ 243
4	ã 132	õ 148	ñ 164	180	196	212	Σ 228	∫ 244
5	à 133	ò 149	Ñ 165	181	197	213	σ 229	∫ 245
6	Á 134	Ú 150	a 166	182	198	214	μ 230	÷ 246
7	ç 135	ù 151	o 167	183	199	215	τ 231	≈ 247
8	ê 136	Ï 152	¿ 168	184	200	216	Φ 232	° 248
9	Ê 137	Ï 153	Ò 169	185	201	217	Θ 233	• 249
A	è 138	Ü 154	170	186	202	218	Ω 234	• 250
B	Í 139	É 155	½ 171	187	203	219	δ 235	√ 251
C	Ô 140	£ 156	¼ 172	188	204	220	∞ 236	n 252
D	ì 141	Û 157	í 173	189	205	221	Φ 237	² 253
E	Ã 142	Pt 158	« 174	190	206	222	ε 238	■ 254
F	Ä 143	Ó 159	» 175	191	207	223	∩ 239	SP 255

6.5 CP 863 French

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	ı 160	■ 176	Ł 192	┘ 208	α 224	≡ 240
1	ü 129	È 145	´ 161	■ 177	┘ 193	┘ 209	β 225	± 241
2	é 130	Ê 146	ó 162	■ 178	┘ 194	┘ 210	Γ 226	≥ 242
3	â 131	ô 147	ú 163	179	┘ 195	┘ 211	π 227	≤ 243
4	Â 132	Ë 148	¨ 164	┘ 180	— 196	┘ 212	Σ 228	∫ 244
5	à 133	Ï 149	, 165	┘ 181	┘ 197	┘ 213	σ 229	∫ 245
6	¶ 134	û 150	³ 166	┘ 182	┘ 198	┘ 214	μ 230	÷ 246
7	ç 135	ù 151	— 167	┘ 183	┘ 199	┘ 215	τ 231	≈ 247
8	ê 136	◊ 152	î 168	┘ 184	┘ 200	┘ 216	Φ 232	° 248
9	ë 137	Ô 153	┘ 169	┘ 185	┘ 201	┘ 217	Θ 233	• 249
A	è 138	Ü 154	¬ 170	186	┘ 202	┘ 218	Ω 234	• 250
B	ï 139	¢ 155	½ 171	┘ 187	┘ 203	■ 219	δ 235	√ 251
C	î 140	£ 156	¼ 172	┘ 188	┘ 204	■ 220	∞ 236	n 252
D	= 141	Û 157	¾ 173	┘ 189	= 205	■ 221	Φ 237	² 253
E	À 142	Û 158	« 174	┘ 190	┘ 206	■ 222	ε 238	■ 254
F	§ 143	f 159	» 175	┘ 191	┘ 207	■ 223	∩ 239	SP 255










6.6 CP 865 Nordic

HEX	8	9	A	B	C	D	E	F
0	Ç 128	Ê 144	á 160	☐ 176	Ł 192	⊥ 208	α 224	≡ 240
1	ü 129	æ 145	í 161	■ 177	⊥ 193	⊥ 209	β 225	± 241
2	é 130	Æ 146	ó 162	☐ 178	⊥ 194	⊥ 210	Γ 226	≥ 242
3	â 131	ô 147	ú 163	179	⊥ 195	⊥ 211	π 227	≤ 243
4	ä 132	ö 148	ñ 164	⊥ 180	— 196	⊥ 212	Σ 228	244
5	à 133	ò 149	Ñ 165	⊥ 181	⊥ 197	⊥ 213	σ 229	245
6	å 134	û 150	a 166	⊥ 182	⊥ 198	⊥ 214	μ 230	÷ 246
7	ç 135	ù 151	o 167	⊥ 183	⊥ 199	⊥ 215	τ 231	≈ 247
8	ê 136	ÿ 152	ı 168	⊥ 184	⊥ 200	⊥ 216	Φ 232	° 248
9	ë 137	Ö 153	ƒ 169	⊥ 185	⊥ 201	⊥ 217	Θ 233	• 249
A	è 138	Ü 154	¬ 170	186	⊥ 202	⊥ 218	Ω 234	• 250
B	ï 139	ø 155	½ 171	⊥ 187	⊥ 203	■ 219	δ 235	√ 251
C	î 140	£ 156	¼ 172	⊥ 188	⊥ 204	■ 220	∞ 236	n 252
D	ì 141	Ø 157	i 173	⊥ 189	= 205	■ 221	Φ 237	² 253
E	Ä 142	Pt 158	« 174	⊥ 190	⊥ 206	■ 222	ε 238	■ 254
F	Å 143	f 159	☐ 175	⊥ 191	⊥ 207	■ 223	∩ 239	SP 255

6.7 CP 858 European

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	á 160	176	192	ð 208	Ó 224	- 240
1	ü 129	æ 145	í 161	177	193	Ð 209	β 225	± 241
2	é 130	Æ 146	ó 162	178	194	Ê 210	Ô 226	= 242
3	â 131	ô 147	ú 163	179	195	Ë 211	Ò 227	¼ 243
4	ä 132	ö 148	ñ 164	180	196	È 212	õ 228	¶ 244
5	à 133	ò 149	Ñ 165	Á 181	197	€ 213	Ï 229	§ 245
6	ä 134	û 150	a 166	Â 182	198	í 214	μ 230	÷ 246
7	ç 135	ù 151	o 167	À 183	199	Î 215	þ 231	, 247
8	ê 136	ÿ 152	¿ 168	© 184	200	Ï 216	þ 232	° 248
9	ë 137	Ö 153	® 169	185	201	217	Ú 233	249
A	è 138	Ü 154	170	186	202	218	Û 234	• 250
B	ï 139	ø 155	½ 171	187	203	219	Ü 235	¹ 251
C	î 140	£ 156	¼ 172	188	204	220	ý 236	³ 252
D	ì 141	Ø 157	i 173	¢ 189	= 205	221	Ý 237	² 253
E	Ä 142	× 158	« 174	¥ 190	206	222	238	254
F	Å 143	f 159	» 175	191	207	223	239	SP 255




6.8 CP 866 Cyrillic

HEX	8	9	A	B	C	D	E	F
0	А 128	Р 144	а 160	 176	Л 192	л 208	р 224	Ё 240
1	Б 129	С 145	б 161	 177	Л 193	т 209	с 225	ё 241
2	В 130	Т 146	в 162	 178	Т 194	т 210	т 226	Ё 242
3	Г 131	У 147	г 163	 179	т 195	Л 211	у 227	ё 243
4	Д 132	Ф 148	д 164	т 180	— 196	Л 212	ф 228	Ї 244
5	Е 133	Х 149	е 165	т 181	т 197	Г 213	х 229	ї 245
6	Ж 134	Ц 150	ж 166	т 182	т 198	Г 214	ц 230	Ў 246
7	З 135	Ч 151	з 167	т 183	т 199	т 215	ч 231	ў 247
8	И 136	Ш 152	и 168	т 184	Л 200	т 216	ш 232	° 248
9	Й 137	Щ 153	й 169	т 185	Г 201	Л 217	щ 233	• 249
A	К 138	Ъ 154	к 170	 186	Л 202	Г 218	ъ 234	• 250
B	Л 139	Ы 155	л 171	т 187	Т 203	 219	ы 235	√ 251
C	М 140	Ь 156	м 172	т 188	т 204	 220	ь 236	№ 252
D	Н 141	Э 157	н 173	т 189	— 205	 221	э 237	☉ 253
E	О 142	Ю 158	о 174	т 190	т 206	 222	ю 238	 254
F	П 143	Я 159	п 175	т 191	Л 207	 223	я 239	SP 255

6.9 CP 852 Latin

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	á 160	176	Ł 192	đ 208	Ó 224	– 240
1	ü 129	Ĺ 145	í 161	177	ł 193	Đ 209	β 225	” 241
2	é 130	Í 146	ó 162	178	ṽ 194	Ď 210	ô 226	‘ 242
3	â 131	ô 147	ú 163	ı 179	ṽ 195	Ě 211	Ň 227	˘ 243
4	ä 132	ö 148	Ą 164	ı 180	— 196	d˘ 212	ń 228	˘ 244
5	û 133	˘L 149	ą 165	Á 181	† 197	Ň 213	ň 229	§ 245
6	ć 134	˘l 150	Ž 166	Â 182	Ǽ 198	Í 214	Š 230	÷ 246
7	ç 135	Ś 151	ž 167	Ě 183	ǻ 199	Î 215	š 231	’ 247
8	ı 136	ś 152	Ę 168	Ş 184	Ł 200	ě 216	Ř 232	° 248
9	ë 137	Ö 153	ę 169	Ț 185	ŕ 201	ǰ 217	Ú 233	… 249
A	Ő 138	Ü 154	SP 170	ı 186	ł 202	ŕ 218	ú 234	• 250
B	ő 139	Ű 155	ž 171	Ț 187	ṽ 203	219	Ű 235	ű 251
C	î 140	˘t 156	Č 172	Ț 188	ṽ 204	220	ý 236	Ř 252
D	Ž 141	Ł 157	š 173	Ž 189	= 205	Ț 221	Ý 237	ř 253
E	Ǽ 142	× 158	« 174	ž 190	† 206	Ű 222	ţ 238	254
F	Ć 143	č 159	» 175	Ț 191	ǰ 207	223	’ 239	SP 255

6.10 CP 720 Arabic

HEX	8	9	A	B	C	D	E	F
0	SP 128	SP 144	160	 176	ل 192	ل 208	224	≡ 240
1	SP 129	ٲ 145	161	 177	ل 193	ل 209	225	≈ 241
2	é 130	° 146	162	 178	ل 194	ل 210	226	≈ 242
3	a 131	ô 147	163	 179	ل 195	ل 211	227	≈ 243
4	SP 132	Q 148	164	ل 180	ل 196	ل 212	228	ل 244
5	à 133	- 149	165	ل 181	ل 197	ل 213	229	ل 245
6	SP 134	û 150	166	ل 182	ل 198	ل 214	μ 230	ل 246
7	ç 135	ù 151	167	ل 183	ل 199	ل 215	231	≈ 247
8	ê 136	152	168	ل 184	ل 200	ل 216	232	° 248
9	ë 137	153	169	ل 185	ل 201	ل 217	233	• 249
A	è 138	154	170	ل 186	ل 202	ل 218	234	• 250
B	ï 139	155	171	ل 187	ل 203	ل 219	235	√ 251
C	î 140	£ 156	172	ل 188	ل 204	ل 220	236	ˆ 252
D	SP 141	157	173	ل 189	ل 205	ل 221	237	2 253
E	SP 142	158	« 174	ل 190	ل 206	ل 222	238	ل 254
F	SP 143	159	» 175	ل 191	SP 207	ل 223	239	SP 255

Chapter 7 Command Codes

7.1 TSPL Command Set

Commands	Description
SIZE	This command defines the label width and length.
BLINE	This command sets the height of the black line and the user-defined extra label feeding length each form feed takes.
BARCODE	This command prints 1D barcodes.
QRCODE	This command prints QR code.
GAP	Defines the gap distance between two labels.
REFERENCE	This command defines the reference point of the label.
SPEED	This command defines the print speed.
DENSITY	This command sets the printing darkness.
DIRECTION	This command defines the printout direction.
SHIFT	This command moves the label's vertical position.
OFFSET	This command defines the selective, extra label feeding length each form feed takes, which, especially in peel-off mode and cutter mode, is used to adjust label stop position, so as for label to register at proper places for the intended purposes. The printer back tracks the extra feeding length before the next run of printing.
BITMAP	This command draws bitmap images.
REVERSE	This command reverses a region in image buffer.
CLS	This command clears the image buffer.
PRINT	This command prints the label format currently stored in the image buffer.

7.2 ZPL Command Set

Code	Description
^A	Scalable/Bitmapped Font
^A@	Use Font Name to Call Font
^B0	Aztec Bar Code Parameters
^B1	Code 11 Bar Code
^B2	Interleaved 2 of 5 Bar Code
^B3	Code 39 Bar Code
^B4	Code 49 Bar Code
^B5	Planet Code bar code
^B7	PDF417 Bar Code
^B8	EAN-8 Bar Code
^B9	UPC-E Bar Code
^BA	Code 93 Bar Code
^BB	CODABLOCK Bar Code
^BC	Code 128 Bar Code (Subsets A, B, and C)
^BD	UPS MaxiCode Bar Code
^BE	EAN-13 Bar Code
^BF	MicroPDF417 Bar Code
^BI	Industrial 2 of 5 Bar Codes
^BJ	Standard 2 of 5 Bar Code
^BK	ANSI Codabar Bar Code
^BL	LOGMARS Bar Code

Code	Description
^BM	MSI Bar Code
^BO	Aztec Bar Code Parameters
^BP	Plessey Bar Code
^BQ	QR Code Bar Code
^BR	GS1 Databar (formerly Reduced Space Symbology)
^BS	UPC/EAN Extensions
^BT	TLC39 Bar Code
^BU	UPC-A Bar Code
^BX	Data Matrix Bar Code
^BY	Bar Code Field Default
^CC ~CC	Change Caret
^BZ	POSTAL Bar Code
^CD	~CD Change Delimiter
^CF	Change Alphanumeric Default Font
^CI	Change International Font/Encoding
^CM	Change Memory Letter Designation
^CO	Cache On
^CP	Remove Label
^CV	Code Validation
^CW	Font Identifier
~DB	Download Bitmap Font
~DE	Download Encoding

Code	Description
^DF	Download Format
~DG	Download Graphics
~DN	Abort Download Graphic
~DS	Download Intellifont (Scalable Font)
~DT	Download Bounded TrueType Font
~DU	Download Unbounded TrueType Font
~DY	Download Objects
~EG	Erase Download Graphics
^FB	Field Block
^FC	Field Clock
^FD	Field Data
^FH	Field Hexadecimal Indicator
^FL	Font Linking
^FM	Multiple Field Origin Locations
^FN	Field Number
^FO	Field Origin
^FP	Field Parameter
^FR	Field Reverse Print
^FS	Field Separator
^FT	Field Typeset
^FV	Field Variable
^FW	Field Orientation

Code	Description
^MD	Media Darkness
^MF	Media Feed
^ML	Maximum Label Length
^MM	Print Mode
^MN	Media Tracking
^MP	Mode Protection
^MT	Media Type
^MU	Set Units of Measurement
^MW	Modify Head Cold Warning
^NC	Select the Primary Network Device
~NC	Network Connect
^ND	Change Network Settings
^NI	Network ID Number
~NR	Set All Network Printers Transparent
^NS	Change Wired Networking Settings
~NT	Set Currently Connected Printer Transparent
^PA	Advanced Text Properties
^PF	Slew Given Number of Dot Rows
^PH ~PH	Slew to Home Position
~PL	Present Length Addition
^PM	Printing Mirror Image of Label
^PN	Present Now

Code	Description
^PO	Print Orientation
^PP ~PP	Programmable Pause
^PQ	Print Quantity
^PR	Print Rate
~PR	Applicator Reprint
~PS	Print Start
^PW	Print Width
~RO	Reset Advanced Counters
^SC	Set Serial Communications
~SD	Set Darkness
^SE	Select Encoding Table
^SF	Serialization Field (with a Standard ^FD String)
^SI	Set Sensor Intensity
^SN	Serialization Data
^SP	Start Print
^SQ	Halt ZebraNet Alert
^SR	Set Printhead Resistance
^SS	Set Media Sensors
^SZ	Set ZPL
^TB	Text Blocks
^TO	Transfer Object
~WC	Print Configuration Label

Code	Description
^WD	Print Directory Label
~WQ	Write Query
~WQ	Examples
^XA	Start Format
^XB	Suppress Backfeed
^XF	Recall Format
^XG	Recall Graphic
^XS	Set Dynamic Media Calibration
^XZ	End Format
^ZZ	Printer Sleep

7.3 EPL Command Set

Code	Description
A	ASCII text
B	1D (EAN-8 / EAN-13 / UPC-A / Interleaved 25 / Codabar / UPC-E / Code39 / Code 128)
b	2D (Data Matrix / PDF417 / QR Code)
C	Cut immediate
D	Density
EI	Print soft font information
EK	Delete soft font
ES	Store soft font
f	Cut position
GG	Print graphics
GI	Print graphics information
GK	Delete graphics
GM	Store graphics
I	Select character set
JF	Enable top of form backup
LO	Line draw black
LS	Line Draw diagonal
N	Clear image buffer
O	Hardware options
P	Print
q	Set label width

Q	Set form length
R	Set reference point
S	Select speed
X	Draw box
Z	Print direction
;	Code comment line
^@	Reset
^default	Restore factory default

Appendix I: DASCOT REPRESENTATIVES

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