



User Manual DL-820/830 Thermal Desktop 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 the 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 dealer or your customer support.



The device and mains-socket must all times be easily accessible.

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 aus 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.
- Maschinenlärminformationen – Verordnung – 3.GPSGV, der höchste Schalldruckpegel beträgt 70 dB(A) oder weniger gemäß EN ISO 7779.



Das Gerät und die Netzsteckdose müssen jeder Zeit leicht zugänglich sein.

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.



Le dispositif et la prise principale doivent toujours être accessibles facilement.

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.



Il dispositivo e la presa di corrente devono essere sempre facilmente accessibili.

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.



El dispositivo y la toma de corriente deben estar ubicados de forma que sea fácil acceder a ellos.

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.



Устройство и розетка должны быть всегда легко доступна.

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.



A impressora e a tomada devem ser facilmente em todos os momentos acessíveis.

ÖnemliGüvenlik Talimatları (Turkish)

Lütfen, yazıcıyı işleme geçirmeden önce bu güvenlik talimatlarını bütünüyle dikkatleokuyun.

- Bakım ve tamir çalışmalarını kesinlikle ve hiçbir surette kendi başınıza yapmayın; her zamankalifiyebir uzmanservis-teknisyenine haber verin.
- Yazıcıyı, üzerinden yere düşmesimümkün olmayacak sabit ve düz bir zemine yerleştirin.
- Yazıcıyı kesinlikle ve hiçbir surette kolayca yanabilecek gaz veya patlayıcı maddeler içeren nesnelerin yakınına koymayın.
- Yazıcıakım kablosunu sadece doğru gerilime sahipbir prize takın.
- Yazıcıyı şebeke ağından ayırmak istediğinizde, yazıcıyı kapatın ve ağ-fişini her zamanprizden çıkartın.
- Yazıcıyı ne yüksek ısı ne de doğrudan güneş ışığına ve toza mâruz kalanmekânlarda bulundurun.
- Yazıcıhiçbir 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 basmaesnasında yüksek ısıya ulaşıyor. Bu yüzdenlütfen dokunmadan önce kısa süre soğumasını bekleyin.
- Yazıcının işletimi ve kullanımında bu dokümantasyondaki talimatların hiç dışına çıkmayın. Sorunlu görünen hususlarda lütfen imâlatçınıza veya müşteri hizmetleri servisinize başvurun.



Cihaz ve elektrik prizinin her zaman kolayca erişilebilir olması gerekir.

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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-830 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 data loss.



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



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



CAUTION: Sharp edges, do not touch.

Related Software and Documents

Related Software and Documents

Software/document name	Description
DL-830 User Manual	This manual.

Update content	Date updated	Name
Add Chapter 3.4 (Web Panel)	4/10/2025	Zhangxj

Contents

CHAPTER 1 INTRODUCTION.....	1
1.1 Features.....	1
1.2 Specifications.....	2
1.3 Consumables.....	4
1.4 Size and Weight.....	5
1.5 Unpack and Inspect.....	6
1.6 Standard/Optional Components for the Product.....	7
1.7 Key Components.....	8
1.8 Control Panel.....	12
1.8.1 Normal/Setup Modes Operation.....	12
1.8.2 Normal/Setup Modes Operation.....	13
1.8.3 Major Setup Menus.....	14
1.8.4 Sample for Setup Steps.....	16
CHAPTER 2 INSTALLATION.....	17
2.1 Recommended Installation Procedures.....	17
2.2 Suitable Installation Site.....	17
2.3 Connect the Power.....	18
2.4 Adjust the Media Sensors.....	19
2.4.1 Two Types of Media Sensors.....	19
2.4.2 Relocate the Gap Sensor.....	20
2.4.3 Relocate the (Reflective) Black Mark Sensor.....	20
2.5 Load the Media.....	21
2.5.1 Loading Procedures.....	21
2.5.2 Adjust the Media Thickness and Width.....	23
2.6 Load the Ribbon.....	25
2.6.1 Loading Procedures.....	25
2.6.2 Resolve the Wrinkled Ribbon by Adjusting the Ribbon Balance Gear.....	26
2.6.3 Resolve the Wrinkled Ribbon by Adjusting the Ribbon Supply Leveler.....	27
2.7 Connect the Interface.....	28
CHAPTER 3 SOFTWARE INSTALLATION.....	29
3.1 Installing the Driver.....	29
3.2 Installing the Configuration Tool.....	32
3.3 Using the Configuration Tool.....	35
3.3.1 Setup for the Media with Black Marks.....	38
3.3.2 Setup for the WIFI.....	39
3.3.3 Setup for the LAN Connection.....	39
3.3.4 Setup for the RFID.....	40
3.3.5 Setup for the Interface.....	41
3.3.6 Upgrading the Firmware.....	42
3.4 Using the Web Panel.....	44
3.4.1 Front Panel Status.....	46
3.4.2 Printer Information.....	46
3.4.3 Configure The Printer.....	47
3.4.4 Operate The Printer.....	52
CHAPTER 4 SUPPORT UTILITIES.....	54
4.1 Configuration List (Self-test Page).....	54
4.2 How to Print the Self-Test Sheet.....	55
4.2.1 Use the Button to Print the Self-Test Sheet.....	55
4.2.2 Use the Control Panel to Print the Self-Test Page.....	55
4.2.3 Use the Configuration Tool to Print the Self-Test Sheet.....	55
4.3 Hex-Dump.....	56
4.4 Auto Media Registration.....	56
4.4.1 Use the Key Method to Locate the Label Normally.....	56

4.4.2 Use the Control Panel for Normal Label Positioning.....	56
4.4.3 Use the Configuration Tool for Normal Label Positioning.....	57
CHAPTER 5 USE of LE.....	58
5.1 Create a New Document.....	58
5.2 Label Setup.....	59
5.3 Database Connect.....	61
5.4 Use the Data from the Database.....	63
CHAPTER 6 DIAGNOSTICS AND MAINTENANCE.....	65
6.1 Diagnostics.....	65
6.2 Restore Factory Default Settings.....	66
6.3 Clear Jammed Media.....	66
6.4 Clean the Print Head.....	66
6.5 Cleaning.....	67
CHAPTER 7 INTERFACE SPECIFICATIONS.....	68
7.1 USB.....	68
7.2 Ethernet.....	68
7.3 Parallel.....	69
7.4 Serial.....	70
7.5 WIFI.....	71
CHAPTER 8 OPTION INTRODUCTION.....	72
8.1 Using the RFID.....	72
8.1.1 RFID Calibration.....	72
8.1.2 Set the RFID Read and Write Power and Chip Location.....	73
8.1.3 Precautions.....	75
8.2 Using the Cutter.....	75
8.3 Using the Peeler.....	76
CHAPTER 90 CODE PAGES.....	80
9.1 ASCII CHARACTER SET.....	80
9.2 CP 437 USA.....	81
9.3 CP 850.....	82
9.4 CP 860 Portuguese.....	83
9.5 CP 863 French.....	84
9.6 CP 865 Nordic.....	85
9.7 CP 858 European.....	86
9.8 CP 866 Cyrillic.....	87
9.9 CP 852 Latin.....	88
9.10 CP 720 Arabic.....	89
CHAPTER 10 COMMAND CODES.....	90
10.1 ZPL Command Set.....	90
10.2 EPL Command Set.....	94
10.3 TSPL Command Set.....	95
FCC STATEMENT.....	96

CHAPTER 1 INTRODUCTION

Dascom designs this competitive industrial thermal label printer with the resolution of 300 dpi (dots per inch) printing at 6 ips (inches per second). Generous media storage and multiple emulations supporting ZPL, EPL, TSPL best fit for medical, manufacturing, logistics, retail & service, postal and education applications.

1.1 Features

- Nearly 90° cap opening for effortless media and ribbon replacement.
- Pull down to tear for easy cutting of short-width labels.
- Generous storage for 360-meter ribbon and 203 mm diameter media to reduce frequent replacement.
- Movable media sensor for precise positioning of media with off-center registration maker.
- Multiple interfaces: USB and LAN built-in, parallel option.

Other optional parts:

Cutter, label peeler, WIFI, RFID

1.2 Specifications

Printer		Direct thermal/Thermal transfer printing	
Model		DL-820	DL-830
Print Parameter	Resolution	203DPI	300DPI
	Print speed	8IPS	6IPS
	Print width	Max. 108mm	Max. 106mm
	Print head	Dot pitch: 0.125mm	Dot pitch: 0.08mm
RFID Parameters (Optional)	RFID protocol: ISO18000-6C(EPC Gen2)		
	RFID frequency: Applicable to ultra-high frequency bands (NA, EU, etc.) 865 ~ 868, 902 ~ 928 MHz		
	RFID writing mode: print first and then write, can support printing and writing EPC, only read and write EPC, only print, read tag TID, lock or unlock storage area, etc. (* Can be customized according to customer requirements)		
	ZPL RFID command: compatible with ZPL RFID simulation commands, users can code control RFID reading and writing and other processing operations		
	RFID chip manufacturers support: NXP, Impinj, Alien, etc		
Fonts	Chinese	GB18030 24×24 (Simplified/Traditional Chinese)	
	Alphanumeric	Resident single byte (ZPL): Font A, Font B, Font D, Font E, Font F, Font G, Font H, Font V0, Font GS, Font P, Font Q, Font R, Font S, Font T, Font U, Font V	
	User-defined	User-defined fonts can be downloaded into FLASH, SDRAM.	
	Code Pages	EPL: PC437;PC850;PC852;PC860;PC863;PC865;PC857;PC861;PC862;PC855;PC866; PC737;PC851;PC869;Windows 1252;Windows 1250;Windows 1251; Windows 1253;Windows 1254;Windows 1255 ZPL: PC850, windows 1250, windows 1252, windows 1251, windows 1253, windows 1254, windows 1256	
	Scalable /Rotation	Zoom in 1~8 times in vertical or horizontal, rotate by 0°, 90°, 180°, 270°.	
Graphics	Graphics processing	Graphics (Monochrome PCX, BMP) can be downloaded into SDRAM.	
Barcodes	1D	ZPL: Code11;Interleaved 2 of 5;Code 39;Code 49;Planet Code; EAN-8;EAN-13;UPC-E;UPC-A;Code 93;Code 128; Industrial 2 of 5;Standard 2 of 5;Codabar;MSI;Plessey EPL: EAN-8;EAN-13;UPC-E;UPC-A;Code 39;Code 93;Code 128; Interleaved 2 of 5	
	2D	ZPL: PDF417;CODABLOCK;Maxicode;Aztec;QR Code; Data Matrix; EPL: PDF417;Maxicode;QR Code; Data Matrix;	
Ribbon	OD	Max. φ70mm (2.7 in)	
	ID	φ25 mm (1 in)	
	Length	Max. 360 m	
	Width	25.4~114mm	

Media Handling	Media Spec.	Thickness 0.06~0.254mm (Flexible anti-metal RFID tags up to 1.25mm)
		Width 19.6mm~120mm
		Length 8.9~400mm
		Max. OD ϕ 203mm (8 in)
	Media cut	ID ϕ 25.4 mm~76.2 mm (1 inch~3 inch)
Control Panel	Media type	Tear bar, auto-cutter, peeler
	Media type	Roll paper, fanfold paper (continuous, non-continuous, continuous tag, wrist-band, normal media and all sorts of receipts)
		Support UHF coated paper RFID tags and UHF flexible anti-metal RFID tags
Control Panel	Key	Four keys: Feed, Return, Pause, Cancel
	LED indicator	One LED: Power
	Screen	LCD
Detect Function	Standard sensors	Black mark sensor, Media sensor, Ribbon sensor, Machinery sensor
	Optional kit sensor	Label peel-off sensor
Emulation	Zebra	ZPL, EPL, TSPL
Power Supply	Input	AC 100V-240V, 50-60Hz
	Output	DC 24V; 1.5A
Memory	SDRAM	32MB
	FLASH	8 MB
Interface	Standard	USB (2.0 Full-Speed)
		Ethernet: 10M/100M
	Optional	Parallel Centronics (IEEE-1284)
		WIFI Interface(802.11b/g)
		Serial:RS-232Serial (DB25)
Software	Driver (Windows 32bit/64bit), Bartender, SDK system	
Physical Spec.	Dimensions	240(W)×440(D)×255(H)mm
	Casing Color	Black
	Weight	9.8kg
	Operating condition	0~45℃ / 20%~95%RH (non-condensing)
	Storage condition	-20~60℃ / ≤95%RH (non-condensing)
Certification	CE, FCC,ETL	
Optional kit	Cutter, Peeler, WIFI, RFID	

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.

This printer supports three classes of print media:

- Adhesive Labels - individual label or continuous roll, with adhesive material on its back, laying over a backing tape (liner).
- Receipt - generally thermal sensitive paper in a roll.
- Ticket & Tag - generally made of thick paper (max. 0.254 mm); with perforation between label.

The print media can be in a roll or fanfold.

Thermal sensitive media (direct thermal) must be used without ribbon.

Choose correct type of media for your application.

1.4 Size and Weight

- Width: ~240 mm
- Length: ~ 440 mm
- Height: ~255 mm
- Weight: ~9.8kg



Front View



Rear View



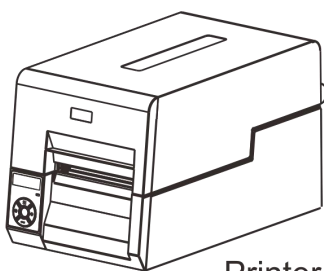
Side View

1.5 Unpack and Inspect

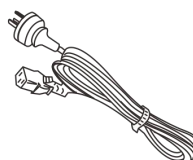
Unpack and inspect if any shipping damage or missing parts compared with the packing list:

- Save all packing materials.
- Check if any exterior damages.
- Open the printer and inspect if any damages in the media compartment.

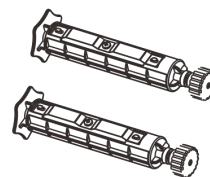
If you find shipping damage, keep the packing materials and notify the re-seller.



Printer



Power Cord



Ribbon Spindles



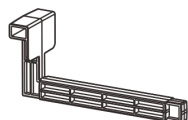
Ribbon



Ribbon Rewinding Core



Thermal Paper



Media Holder



Media Width Adjuster

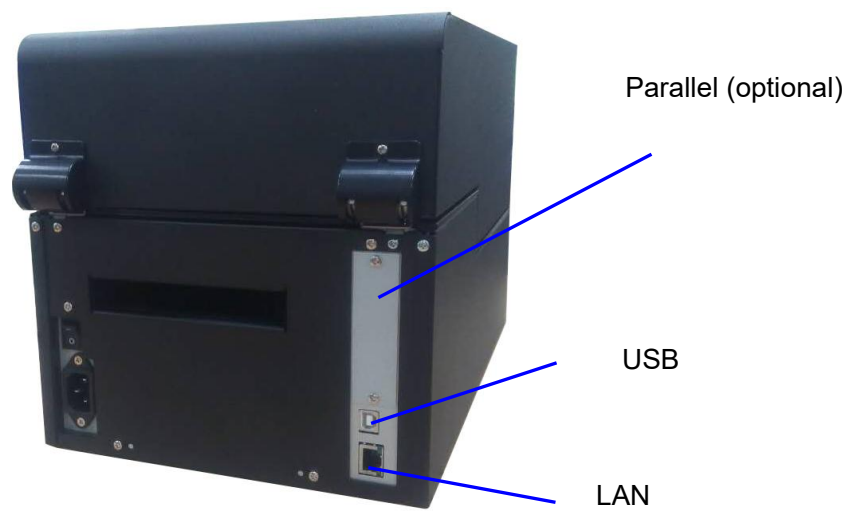


Contents in the packing list may vary according to your order.

Packing List for Standard Order:

Printer	1 unit	
Ribbon rewind paper core	1 piece	
Ribbon	1 piece	Wax
Ribbon spindle	2 pieces	
Thermal Paper	1 piece	Thermal Paper
Media Holder	1 piece	
Media Width Adjuster	1 piece	
Power cord	1 piece	EU/UK/US
Installation guide	1 piece	

1.6 Standard/Optional Components for the Product

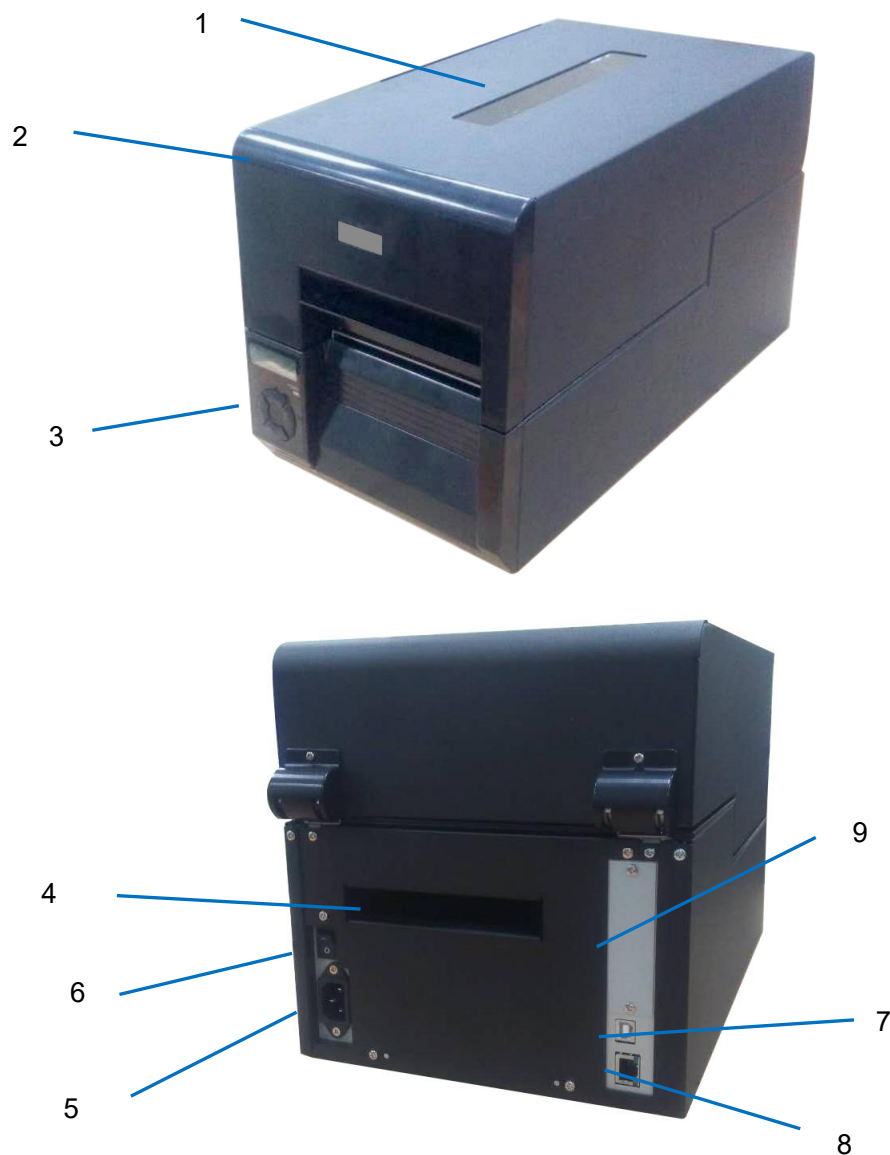


Product	Interfaces					Cutting			Sensor
	USB	LAN	Serial	Parallel	WLAN	Tear	Cutter	Label Peeler	Black Mark
DL-830	√	√	O	O	O	√	O	O	√

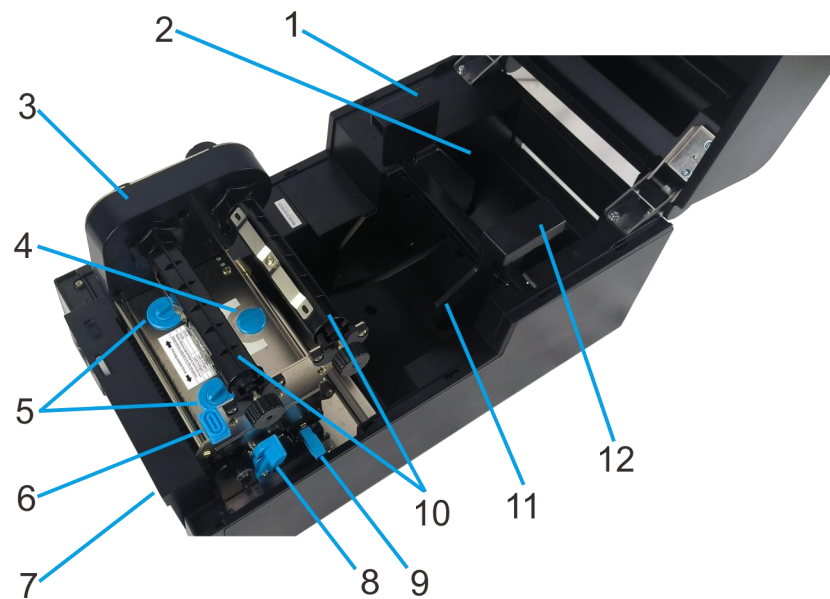
Remarks: “√” denotes standard component.

“O” denotes optional component.

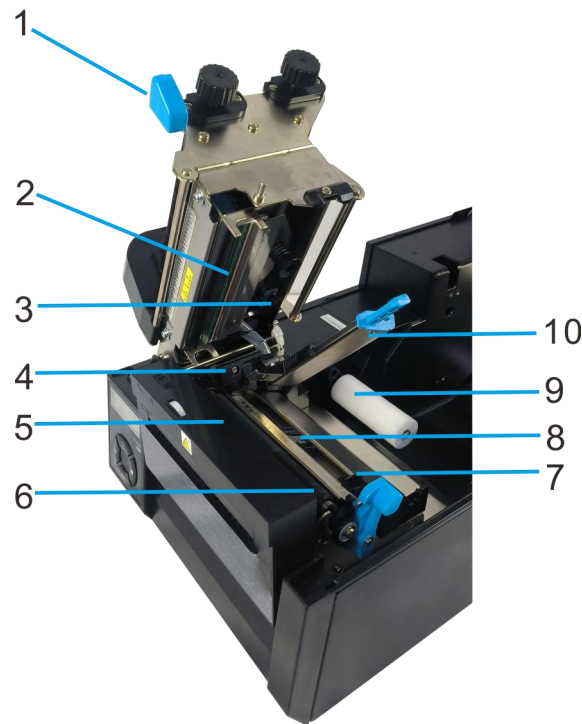
1.7 Key Components



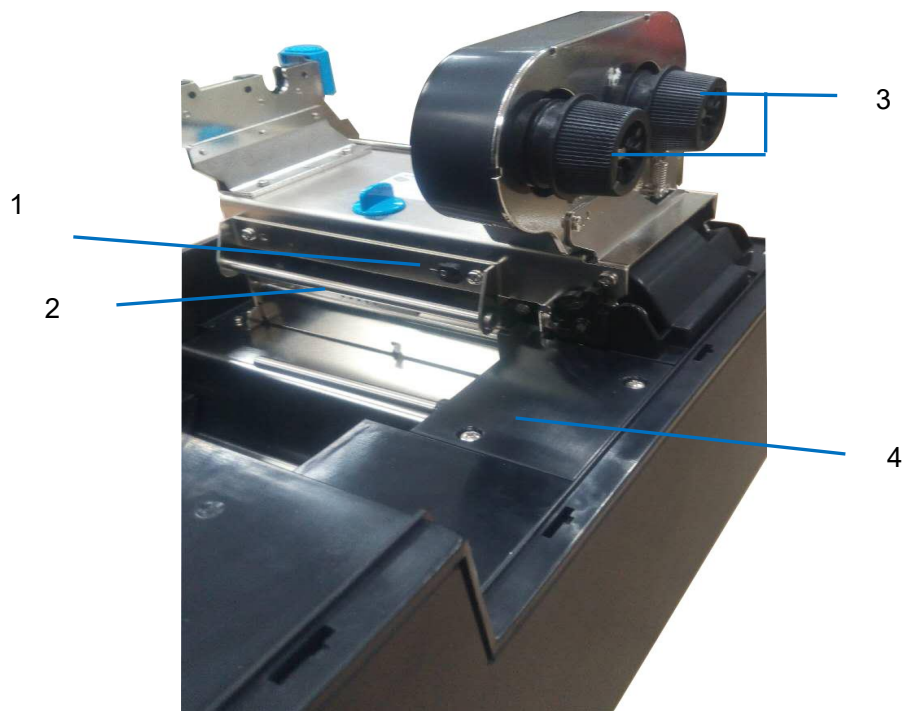
No.	Part Names	Descriptions
1	Transparent Window	Observe quantity of remained media.
2	Top Cover	Open to replace media or ribbon.
3	Control Panel	Configure the parameters and check the settings.
4	Rear Slot	An opening to load fanfold media
5	Power Socket	Socket for detachable power cord.
6	Power Switch	Turn on and off the printer
7	USB Interface	USB connection to PC (ex-factory standard interface)
8	LAN Interface	LAN connection to the server (ex-factory standard interface)
9	Optional interface: parallel	Optional interface to the PC. (Ordered separately)



No.	Part Names	Descriptions
1	Media Holder	With the Media Width Adjuster, they hold the media roll in position.
2	Media House	Place the Medias
3	Ribbon Drive Module	The mechanism to supply and rewind the ribbon.
4	Media Thickness Dial	Turn it to match with the media thickness
5	Pressure Dial	Depending on the width of the media, adjust the printer pressure for the best print quality.
6	Engage Handle	Press it to latch the print head/ribbon module in place.
7	Front Cover	To be removed if optional cutter or label peeler is installed.
8	Release Lever	Push it to release the print head/ribbon module.
9	Sensor Arm	In normal position, it guides the media feeding. Lift it up to load media.
10	Ribbon Spindles	One to supply and the other to rewind the ribbon.
11	Media Compartment	Generous space for media roll.
12	Media Width Adjuster	Adjust it along the shaft of the Media Holder to match the width of the media.



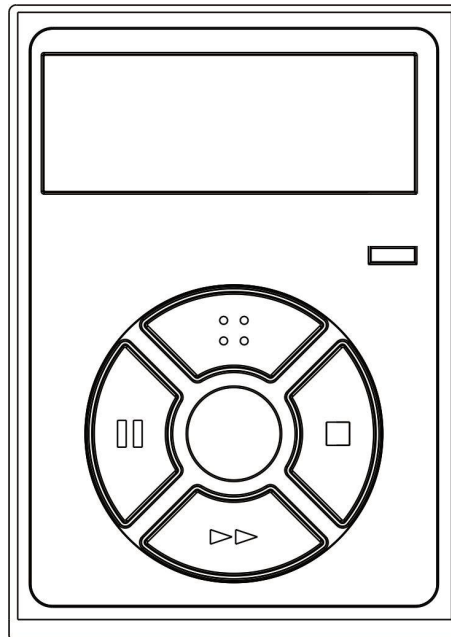
No.	Part Names	Descriptions
1	Print module switch	Turn the print module on or off.
2	Print head	Never touch the head surface with fingers which contaminate the head with grease or dirt.
3	Gap Sensor	Media registration by identifying the notch or gap separating adjacent tags or labels.
4	Left Media Guide, fixed	Guard the left edge of the media.
5	RFID	Optional part.
6	Feeding Roller	The friction between it and the print head drives printed media out of the printer.
7	Right Media Guide, movable	Free to move guide guarding the right edge of the media.
8	(Reflective) Black Mark Sensor	Media registration by identifying the black mark pre-printed on the backside of the media.
9	Damper	It prevents media getting curved in high speed printing.
10	Sensor Arm	In normal position, it guides the media feeding. Lift it up to load media.



No.	Part Names	Descriptions
1	Ribbon Supply Leveler	It corrects ribbon wrinkle on the supply side by changing the tilted angle of the ribbon guide to balance the ribbon left/right tension.
2	Ribbon Guide Shaft	A routing pole for ribbon winding.
3	Ribbon Knobs	Turn the knobs to tighten up the ribbon on loading or wrinkled.
4	Option Cover	Open this cover to plug in the connectors for optional cutter or label peeler. Keep it closed if no options installed.

1.8 Control Panel

1.8.1 Normal/Setup Modes Operation



	Normal Mode (Ready to print operation)	Setup Mode
LCD	● The 1st and 3rd lines constantly shows the model name and Setup, respectively. ● The 2nd line shows the current status, or the error message if a fault occurs.	● The 1st line constantly shows the model name. ● When the 2nd line shows one of the five major configuration menus, the 3rd line shows Setup. ● When the 2nd line shows a sub-menu configuration, the 3rd shows the valid setting value.
Power LED	Lights up to indicate the printer is turned on.	Lights up to indicate the printer is turned on.
⋮ button	Enter Setup mode.	Press twice to terminate the given item/value
button	Pause the print job.	Scroll backward
■ button	Complete the current print job; then suspend the printer.	Scroll forward
▶▶ button	For non-continuous media, advance to next label or top-of-form position. For continuous media, a press feeds the media 1 line; holding this button feeds multiple lines until the button is released. This action varies if options are enabled: ● Label peeler: the label is fed to the peel off position. Further pressing the ▶▶ button has no effect until the label is removed. ● Auto-cutter: Printed label is fed to cut position directly.	Accept the given item/value.

1.8.2 Normal/Setup Modes Operation

Display	Description
Print Ready Setup	The printer is in good operating condition and ready to print.
Head Up Setup	The print head is lifted up.
Pause Setup	The II or ■ button on the Control Panel is press.
Head Hot Setup	This warns abnormal print head temperature.
Paper Out Setup	This warns out of media.
Calibrate Error Setup	This warns not able to detect media present.
Calibrate Error Setup	This warns jammed media.
Ribbon Out Setup	This warns ribbon ended.
Ribbon Out Setup	This warns slipping ribbon winding.
Cutter Error Setup	*This warns cutting action is interfered by foreign objects.
Paper Error Setup	During label printing, gaps are not detected
RFID Commands Error Setup	The RFID module accepts unknown commands
RFIDconnect Error Setup	The RFID module initialization fails or the RFID module is poorly connected to the printer
RFID Calibrate Error Setup	When RFID calibrates the tag, it cannot find the suitable chip position and read and write power
RFID Reprinting Error Setup	If the printer fails to read and write on the three labels, it will report that the RFID reprinting failed
Without EPC Setup	There are no read and write commands attached to the printed data
Communication Abnormal Setup	The communication between the printer and the RFID module is abnormal, please restart.

* Valid | if auto-cutter option is installed

1.8.3 Major Setup Menus

- Machine Information: Displays machine information
- System Setup: Display system information and change system settings
- Net Config: Display the network port interface information and change the network port interface settings
- RFID: Display RFID information and change RFID settings
- Test Mode: Tag positioning, RFID calibration, printing self-test pages, factory restoring, etc

Parameter	Secondary menu items	Possible settings
Machine Information	MODEL	The name of the model varies depending on the model
	MANUFACT	The name of the printer manufacturer
	FW Ver	Printer firmware version number
	BOOT Ver	The printer BOOT version number
	FPGA Ver	The FPGA version number of the printer
	HD Ver	Printer HD version number
	CG Ver	The version number of the printer's font
	FW Time	The time when the printer firmware was generated
System Setup	Machine Num	The printer number is the same as the ID number on the printer's nameplate
	Language	◆English ◆Chinese
	Emulation	◆ZPLII ◆EPL ◆TSPL2
	Media	◆ Label ◆ Continuous
	Print Type	◆ Thermal transfer ◆ Direct Thermal
	Print Density	◆ 1 ◆ 2 ◆ 3 ◆ 4 ◆ 5 ◆ 6 ◆ 7 ◆ 8 ◆ 9 ◆ 10 ◆ 11 ◆ 12 ◆ 13 ◆ 14 ◆ 15 ◆ 16
	Print Speed	DL-820(Thermal transfer):2,3,4,5,6IPS DL-820(Direct thermal): 2,3,4,5,6,7,8IPS DL-830(Direct thermal/Thermal transfer) : 2,3,4,5,6IPS
	Paper Sensor	◆ Reflective ◆ Gap Sensor
	Paper Sensor Adjust	◆ 1Level ◆ 2Level ◆ 3Level ◆ 4Level
	LCD Backlight	◆ Off ◆ On
	Calibrate Label	◆ Off ◆ On
	The value range of Cut Position	Range:-15.5~15.5mm (enter values in units of 0.5)
	The value range of Horizontal Position	Range:-54.1~54.1mm
	The value range of Vertical Position	-37.6~37.6mm
	TearPosWTime	◆ OFF ◆ 1S ◆ 3S ◆ 5S ◆ 10S
	USB ID	◆No ◆Yes

Parameter	Secondary menu items	Possible settings
Net Config	NET Ver	02.07.00.00
	IP Address	192.168.0.7
	IP type	◆ Static IP ◆ DHCP IP
	Subnet Mask	255.255.255.0
	GatewayGateway	192.168.0.1
	MAC Address	BC:9D:A5:05:95:03
Serial Interface	Baud Rate	◆ 2400 ◆ 4800 ◆ 9600 ◆ 19200 ◆ 38400 ◆ 115200
	Parity Check	◆ None ◆ Even ◆ Odd
	Data Bit	◆ 8 ◆ 7
	Stop Bit	◆ 1: Stop Bit ◆ 2: 2 Stop Bit
	Data Stream	◆ No ◆ DTR/DSR ◆ Xon/Xoff
RFID	RFID Function	◆ OFF ◆ ON
	RFID Type(Read only)	Inlay
	RFIDVer	00.00.44.38
	Frequency	◆ PRC ◆ NA ◆ EU ◆ OPEN
	Chip Position	Current value: 10mm
	Read Power	Range: 1~27 dBm
	Write Power	Range: 1~27 dBm
	Mode	◆ Dynamic ◆ Static1 ◆ Static2
Test Mode	Print Test	Prints out information about the current status of the printer
	Label Calibrate	The printer does the label positioning
	Hex Test	The printer converts the printed data to hexadecimal format and prints it out, and the printer can only exit when it is powered on again
	Restore Factory Default	Restore the factory print settings
	RFID Calibration	The printer performs RFID tag verification on the RFID tag, and the printer automatically selects the appropriate chip position and read and write power

* Settings items may differ depending on the machine version.

1.8.4 Sample for Setup Steps

Below describes how to change the Print Density setting from 8 to 9 by panel operation.

1) The printer originally works in Normal mode with the follow display.



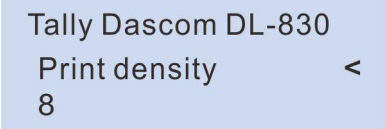
Tally Dascom DL-830
Print Ready
Setup

2) Press $\therefore$ button once to enter Setup mode. Press $\blacksquare$ button once to scroll forward getting the System Setup menu.



Tally Dascom DL-830
System Setup <
Setup

3) Press $\blacktriangleright\blacktriangleright$ button once to accept entering the System Setup menu. Keep pressing $\blacksquare$ button to scroll to Print density sub-menu.



Tally Dascom DL-830
Print density <
8

4) Press $\blacktriangleright\blacktriangleright$ button once to accept entering the Print density setting. Press $\blacksquare$ button once to scroll the value from 8 to 9.



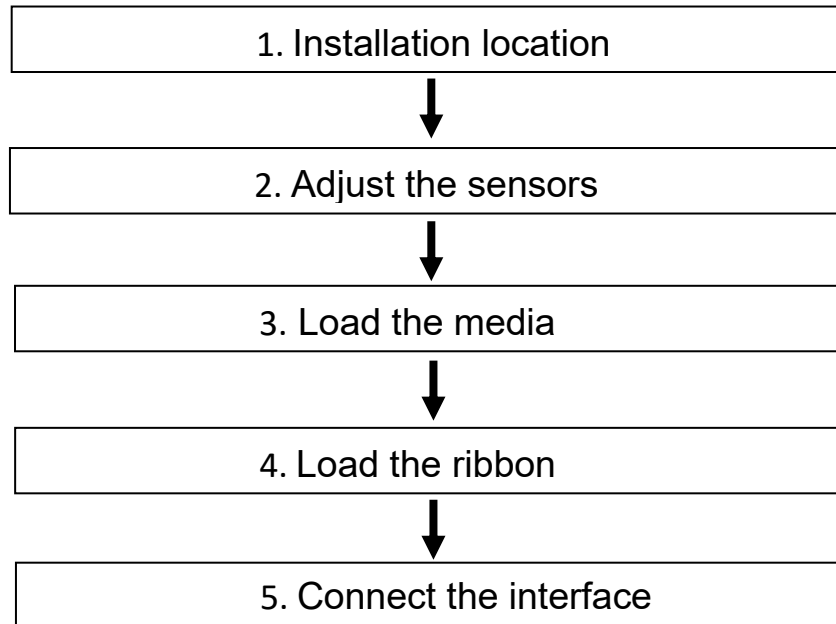
Tally Dascom DL-830
Print density <
9

5) Press $\blacktriangleright\blacktriangleright$ button to accept saving the value of 9 for Print density.

6) Press $\therefore$ button twice to terminate Setup mode and return to Normal mode.

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:

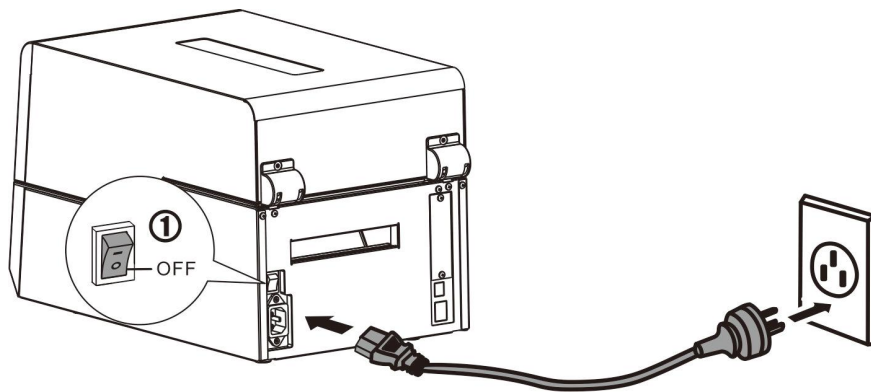
1. Install the printer on a solid, level and stable workbench surface.
2. Sufficient space around the printer to provide good ventilation, stack the printout, access the control panel, replace the ribbon/media, and carry the maintenance.
3. Avoid heat and damp sources.
4. Avoid an environment close to 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 and ribbon are installed, toggle the power switch to ON position to turn on the printer and the power LED will light up.



Important:



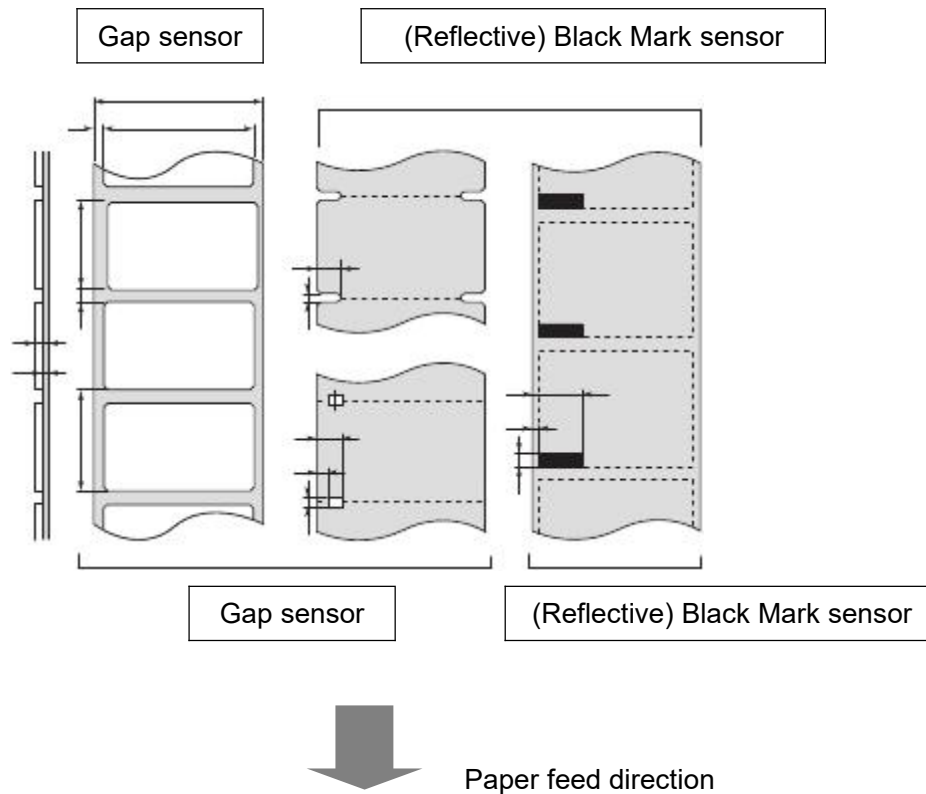
1. Hold the power plug to unplug the power.
2. Pulling the power cord by force to unplug the power may break the power cord causing fire and electric shock.
3. Turn off the power if the printer is not in use for long period.

2.4 Adjust the Media Sensors

2.4.1 Two Types of Media Sensors

The printer makes use of the media sensors to register the media to a precise position relative to the print head. You should activate the correct sensor for your media in use:

1. Gap sensor: for labels or tickets & tags - with a gap or notch separating consecutive media.
2. Black mark sensor: for receipts/tickets - with pre-printed black stripes on the back.

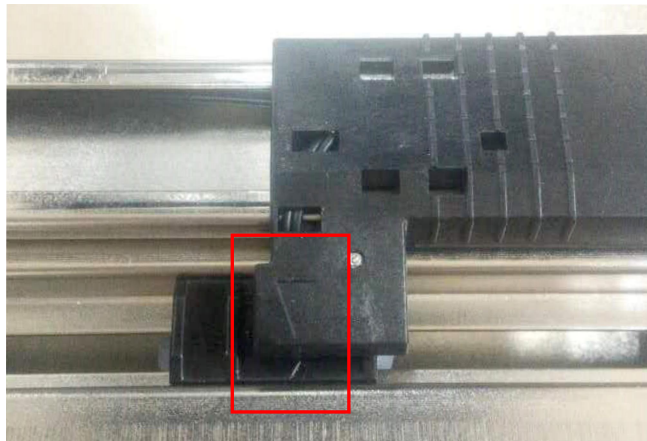


Only one media sensor can be active at anytime. According to the media in use, activate the appropriate sensor under the System Setup menu from the Control Panel or the Config Tool. Read [Sections 2.4.2](#) and [2.4.3](#) to relocate the sensors according to the media width in use.

2.4.2 Relocate the Gap Sensor

When printing labels or ticket & tag media, activate Gap Sensor in the System Setup menu from the Configuration Tool or Control Panel. Additionally, relocate the sensor position to match the media width in use:

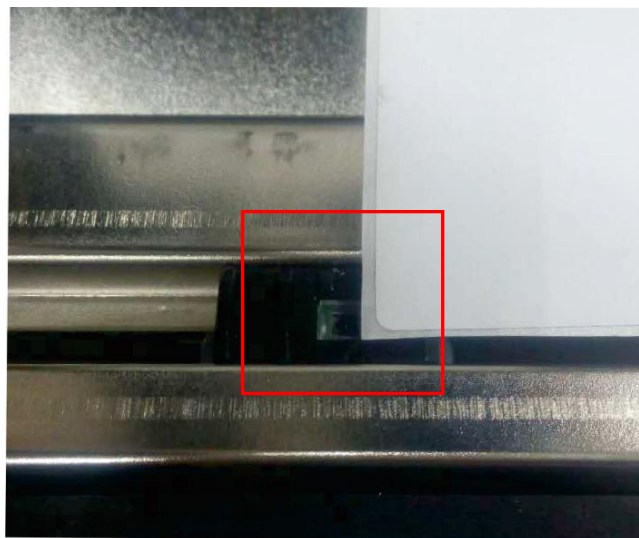
1. Open the top cover and unlock the print head.
2. Load new media. (Read Section 2.5.)
3. For labels with liner, move the Black Mark Sensor to a position within the physical label. If use media with notches, move the Black Mark Sensor underneath a notch.
4. See below photo. Align the two triangular markers on the Gap Sensor and Black Mark Sensor.



2.4.3 Relocate the (Reflective) Black Mark Sensor

When printing media with black marks or black lines on the back, activate the Black Mark Sensor in the System Setup menu. Additionally, relocate the sensor position to match the media width in use:

1. Open the top cover and unlock the print head.
2. Load new media. (Read Section 2.5.)
3. See below photo. Move the Black Mark Sensor directly underneath the black mark of the media.
4. Move the Gap Sensor beyond the Black Mark Sensor; otherwise, the printer fails to detect out of media.



2.5 Load the Media

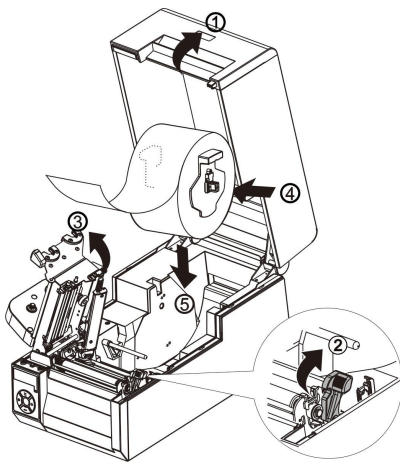
2.5.1 Loading Procedures



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

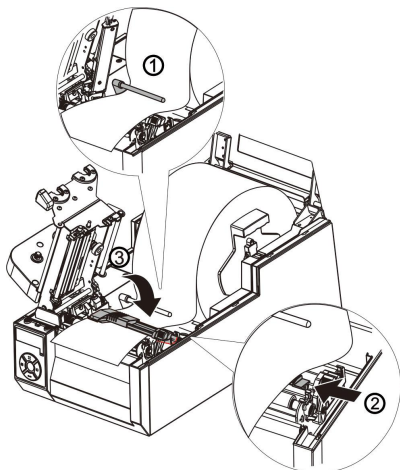
Caution: To prevent media jam, always align the media to the left side of the printer.

If dark tracks do not come out by scratches on the media surface, the media is not temperature sensitive and a ribbon is required.



1.

- ① Open the top cover.
- ② Push the blue Release Lever to release the head module.
- ③ Lift the Sensor Arm.
- ④ With the printing surface facing up, clam the media roll between the Media Holder and the Media Width Adjuster.
- ⑤ Load the clammed roll into the media compartment.

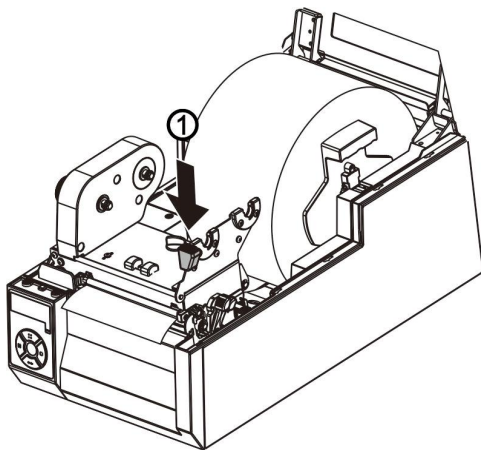


2.

- ① Route the media underneath the Damper.
- ② Move the Right Media Guide to fit the media width.
- ③ Return the Sensor Arm to its original position.



Important: The printing surface faces upward.



3.

- ① If new media, read Section 2.4.2 or 2.4.3 to relocate the media sensors.
- ② Push the blue Engage Handle to lock up the print head module.

4.

Making a media calibration ensures the printing starts with the correct position on the fresh media. Hold the ►► button and then turn on the power. After the beeper sounds twice, release the button to complete the media calibration process.

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.

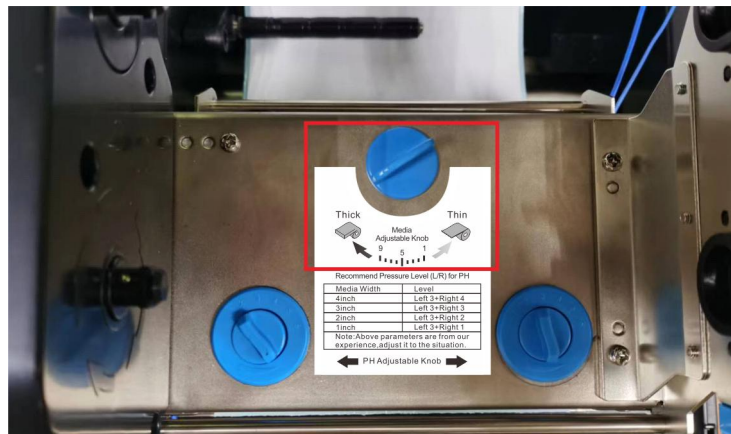
Offset printout without changing the settings.

2.5.2 Adjust the Media Thickness and Width

It is important to set correct thickness and width for media to improve the print quality.

- When every printout is poor in quality, the thickness is incorrect.
- When the printout is poor only on one side, the width is incorrect.
- When printing on thick media like tags, the paper thickness knob can be adjusted from the smallest digit to the largest digit one by one during test printing.
- When using standard label, high-quality or thermal paper of different widths, the print head pressure level can be adjusted from the smallest digit to the largest digit one by one during test printing.

(1) Paper thickness adjustment: 2 gears by default, from left to right



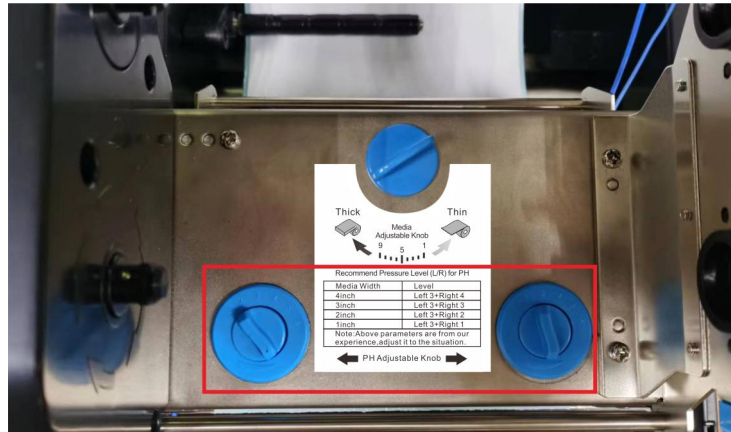
Recommended Dial Positions	Media
1-2	Direct thermal rolls, general labels
3-5	Labels with thick liner
6-9	Thick media like tags or tickets

Above are just recommended settings for different media. Verify the setting with your test results.

- The ex-factory setting is 1-2. (The default thickness for general labels.)
- Please note that the combination of media thickness and hardness of the media may cause slight variation.
- Adjusting the thickness may resolve the problem of wrinkled ribbon.

(2) Printhead pressure adjustment

The printhead pressure varies depending on the width of the paper being printed. The printhead pressure balance must be adjusted according to the width of the paper to exert a constant pressure on the printhead. On this printer, you can easily adjust it by turning the left and right pressure adjustment knobs. If the print is blurry, the print on one side is light, or the paper is zigzag and moved, adjust the print head pressure balance. After the adjustment is complete, perform a test print to confirm the output quality.



Recommended Dial Positions	Media width mm (inches)	Head Pressure
1	19.5 ~ 30.0mm(0.77 ~ 1.18)	Low High
2	30.0 ~ 39.0mm(1.18 ~ 1.53)	
3	39.0 ~ 49.0mm(1.53 ~ 1.92)	
4	49.0 ~ 62.0mm (1.92 ~ 2.44)	
5	62.0 ~ 76.0mm (2.44 ~ 2.99)	
6	76.0 ~ 88.0mm(2.99 ~ 3.46)	
7	88.0 ~ 99.0mm(3.46 ~ 3.89)	
8	99.0 ~ 108mm(3.89 ~ 4.25)	
9	108 ~ 118mm(4.25 ~ 4.65) (default setting)	

- Depending on the print thickness and ribbon folds, the pressure knob may need to be adjusted.

2.6 Load the Ribbon

2.6.1 Loading Procedures

If dark tracks do not come out by scratches on the media surface, the media is not temperature sensitive and a ribbon is required.



Note: Ribbons are required to print on non-thermal-sensitive media.



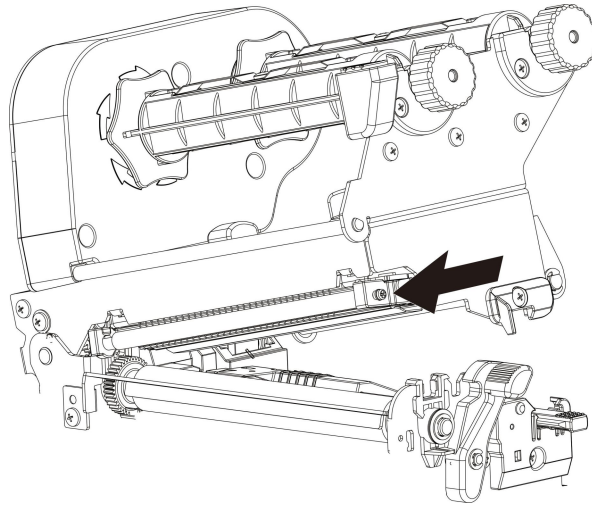
Using ribbon to print on thermal media produces poor quality graphics and bar-codes.

	1. ① Insert the two Ribbon Spindles into the Ribbon Core and new ribbon roll. ② Plug the Spindle loaded with ribbon onto the rear driving shaft of the Ribbon Drive module.
	2. ① Push the blue Release Lever to release the head module. ② Pull the ribbon and fix the end to the Ribbon Core. Spread the middle portion of the ribbon evenly over the print head. Plug the Spindle, loaded with the Ribbon Core, onto the front driving shaft of the Ribbon Drive module.
	3. ① Turn the Spindles to wind up excess ribbon. Push the blue Engage Handle to lock up the Print head module. ② Close the Top Cover.

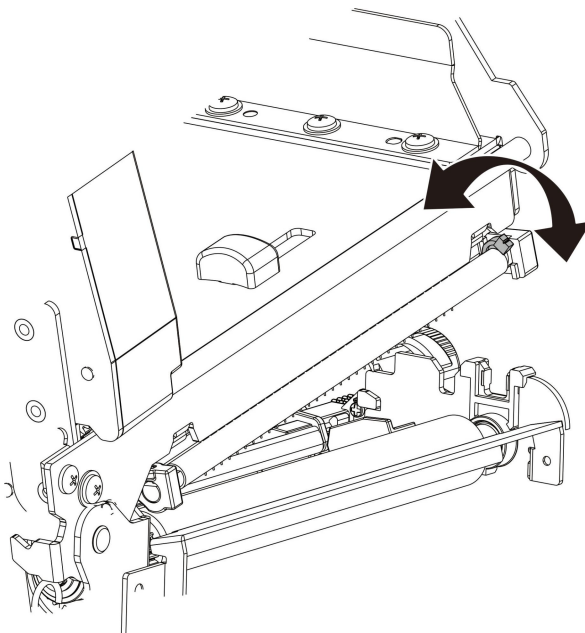
2.6.2 Resolve the Wrinkled Ribbon by Adjusting the Ribbon Balance Gear

When you observe loose ribbon on one side from the front or wrinkled ribbon, adjust the Ribbon Balance Gear resulted in even ribbon tensions on both ends.

1. Unfasten the shaft screw.



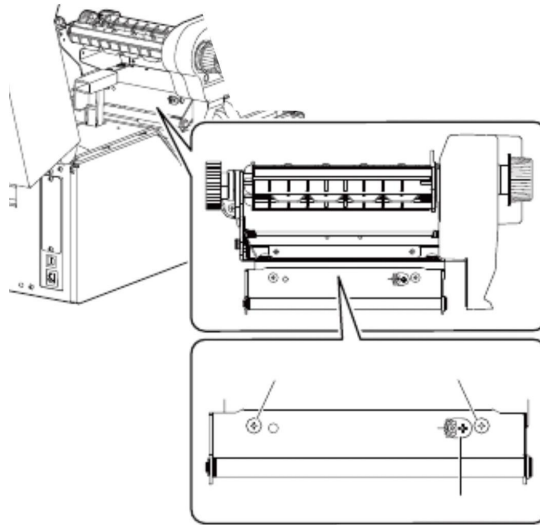
2. Turn the Ribbon Balance Gear to shift the shaft slightly forward or backward.



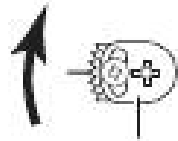
3. After the adjustment, tight up the shaft screw.

2.6.3 Resolve the Wrinkled Ribbon by Adjusting the Ribbon Supply Leveler

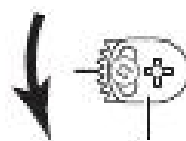
When you observe loose ribbon on one side from the supply side or wrinkled ribbon, adjust the Ribbon Supply Leveler resulted in even ribbon tensions on both ends of the supply side.



- (1) Unfasten the two screws fixing the metal plate.
- (2) Unfasten the screw fixing the Leveler.
- (3) Turn the Leveler to change the tilt angle of the metal plate and its shaft, which is in contact with the supply ribbon..



Clockwise to tilt the shaft upward.



Anticlockwise to tilt the shaft downward.

- (4) When you observe balance tensions on both ends of the supply ribbon, fix all 3 screws.
- (5) Repeat the adjustment if you find wrinkle ribbon after fixing the screws.

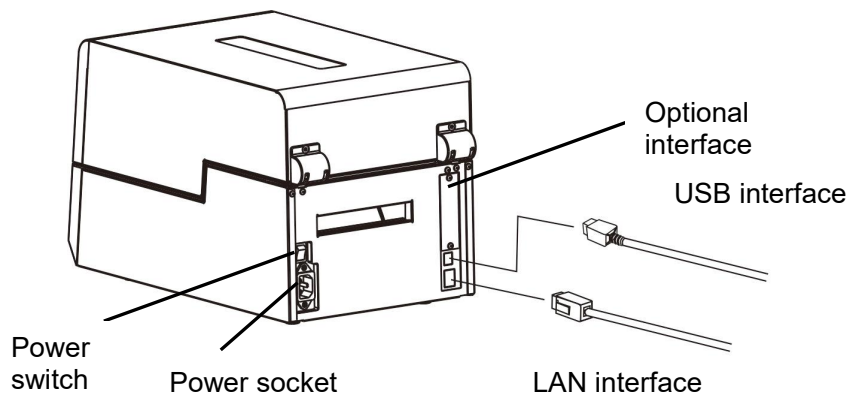
NOTE: Incorrect media thickness and width settings may cause wrinkle ribbon as well. If several attempts on Leveler adjustment fail to correct wrinkle ribbon, you should check the media thickness and width settings.

2.7 Connect the Interface

This printer provides USB and LAN interfaces for standard shipment. Parallel 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	Communication with the LAN server. (standard interface)
Optional Interface	Reserve for the installation of option: parallel

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.

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:

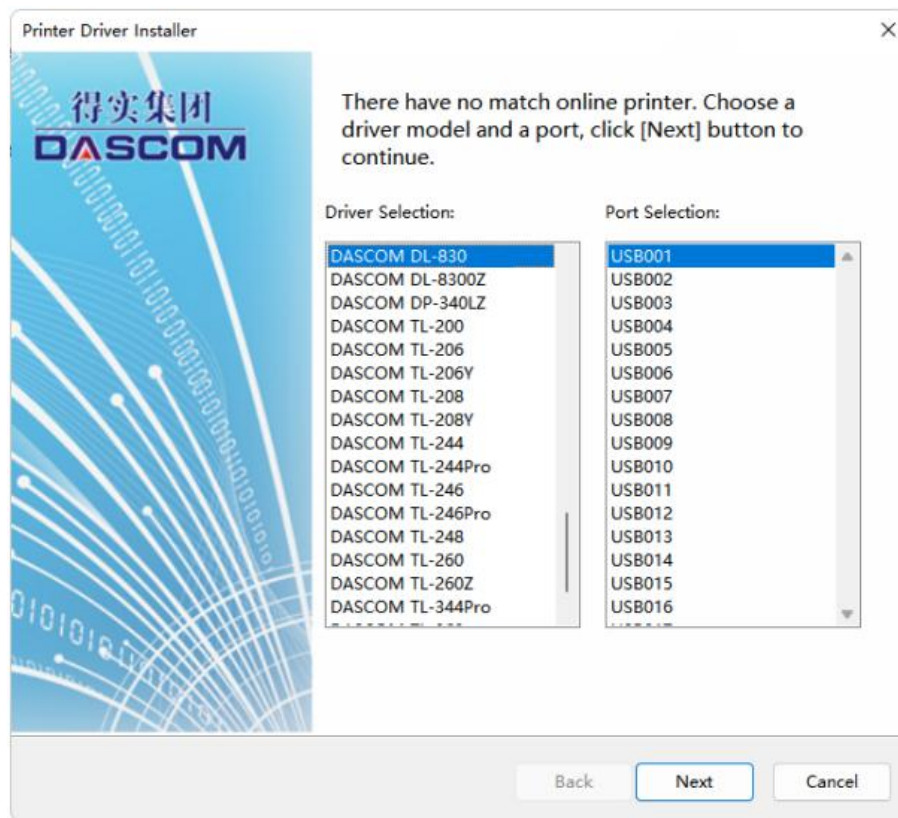
<https://www.dascom.com/downloads.html>

From the folder that you unzipped the driver files to select “Install.exe”. The program will guide you to finish the whole installation.

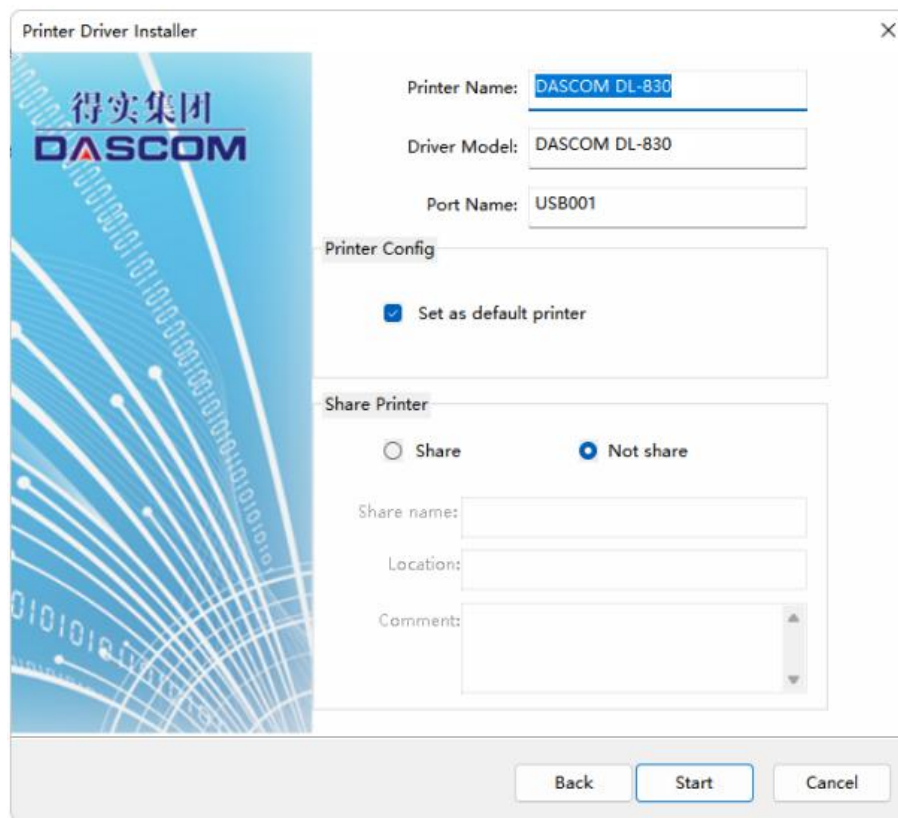
(1) Click “Next”.



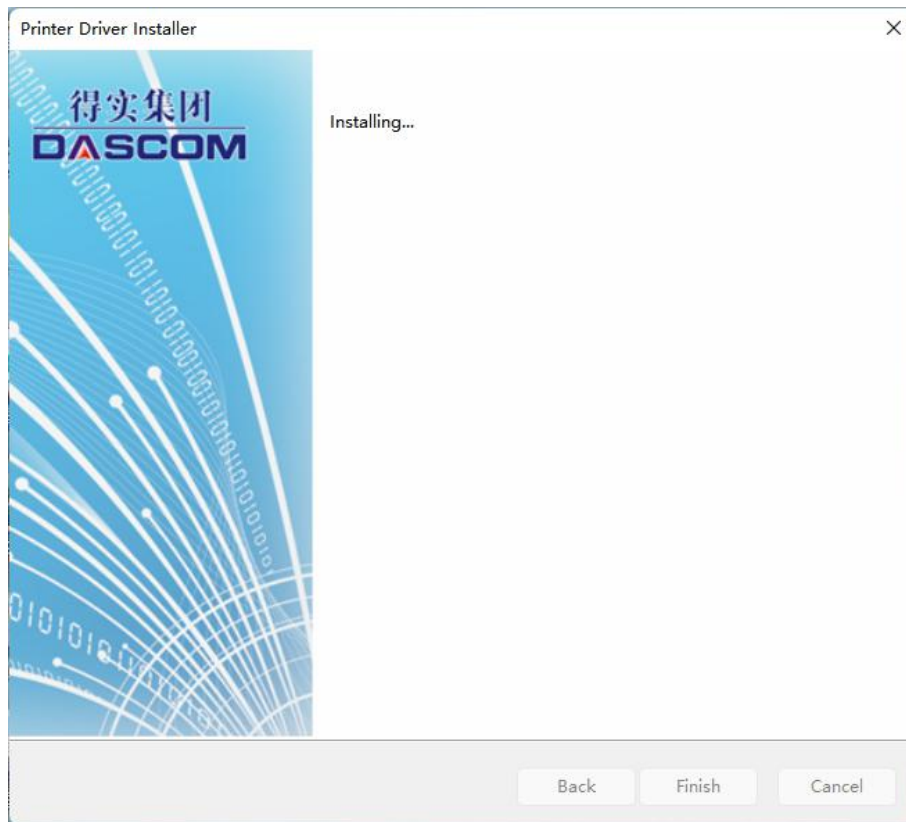
(2) Select the driver model and a port, Click “Next” button to continue.



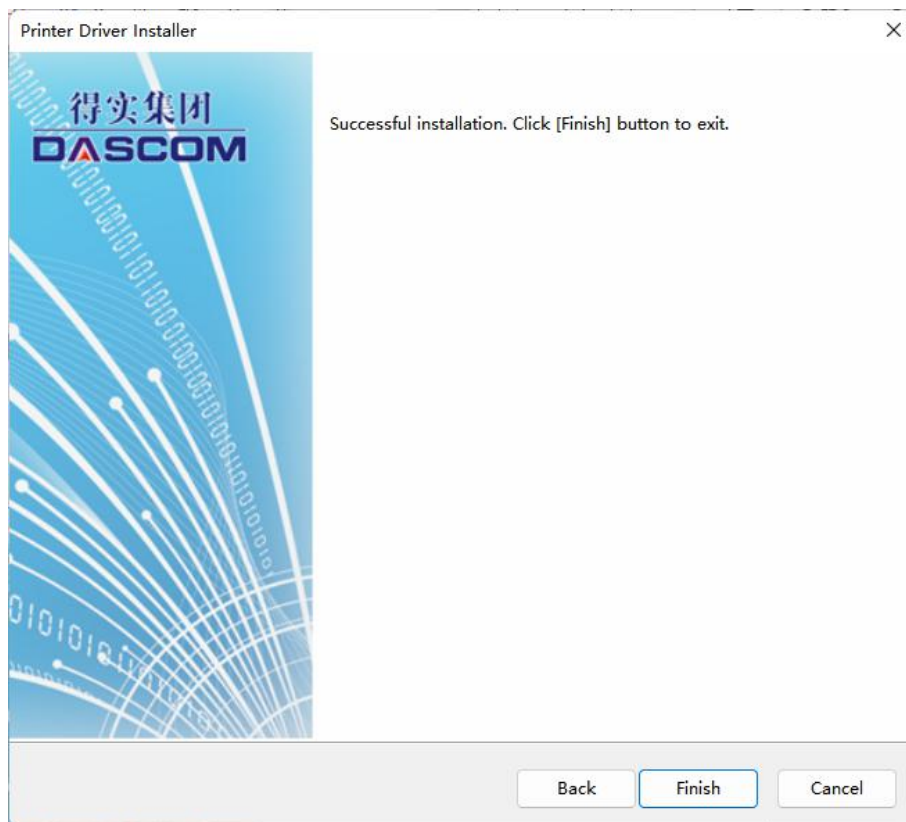
(3) Set up the printer name, click “Start”.



(4) Wait for the installation to finish.



(5) Click the Finish button once the installation ends.

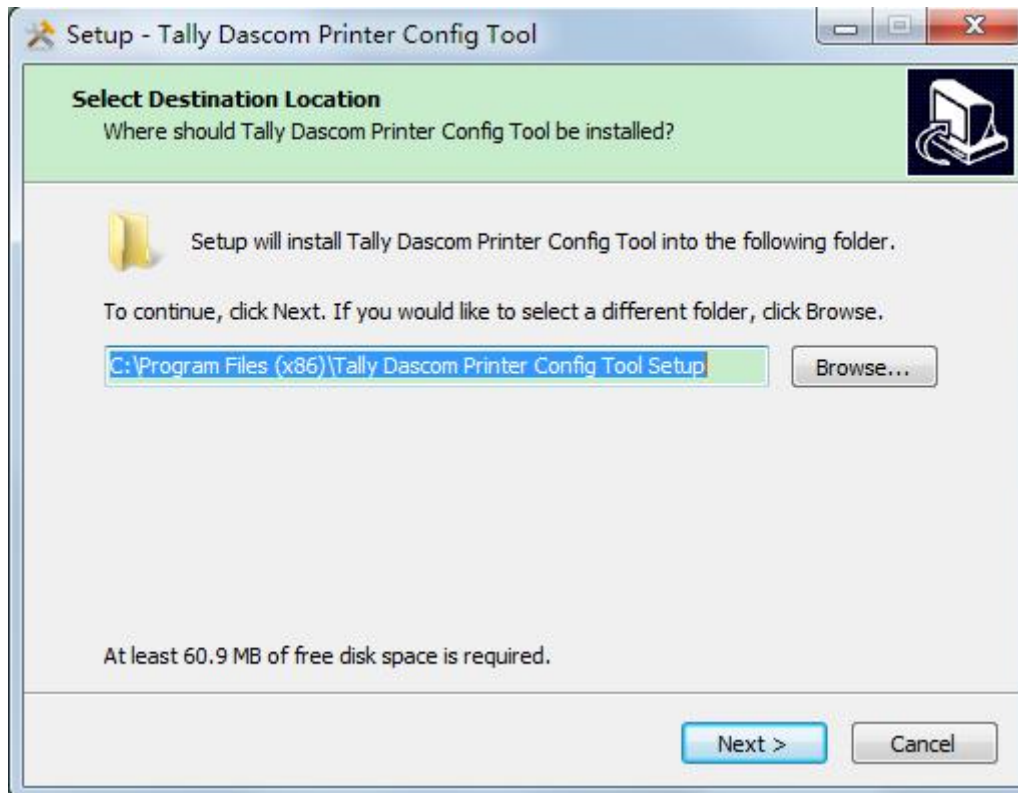


3.2 Installing the Configuration Tool

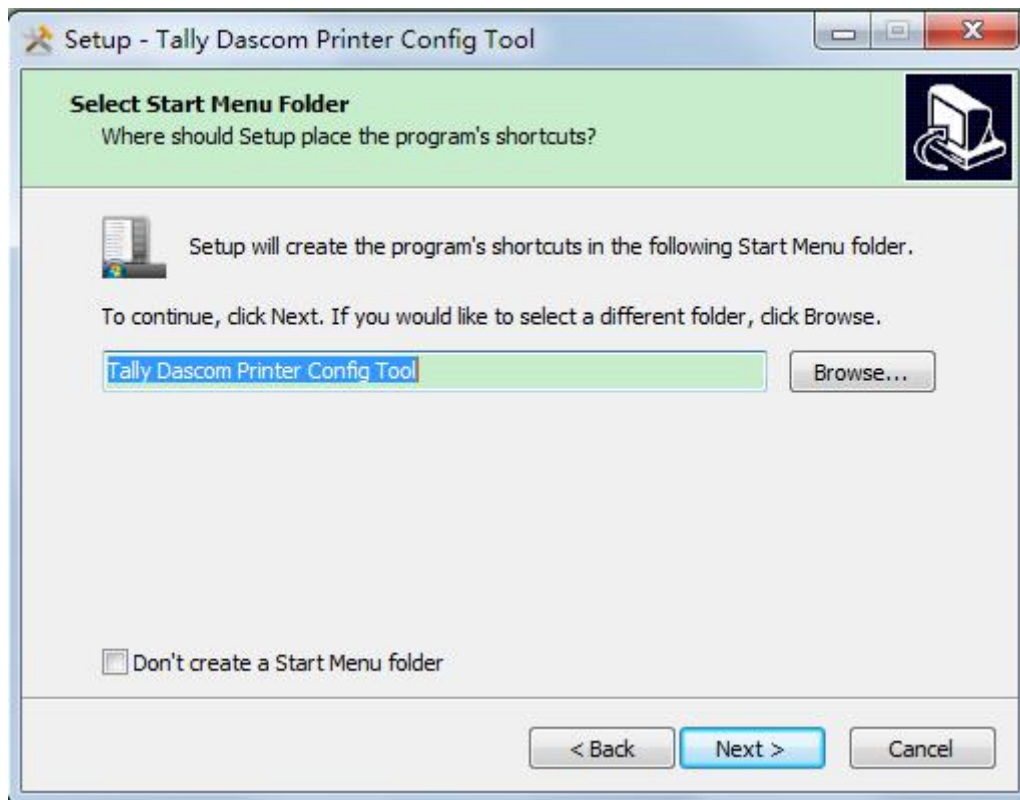
The Configuration Tool package can be downloaded from our web:

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

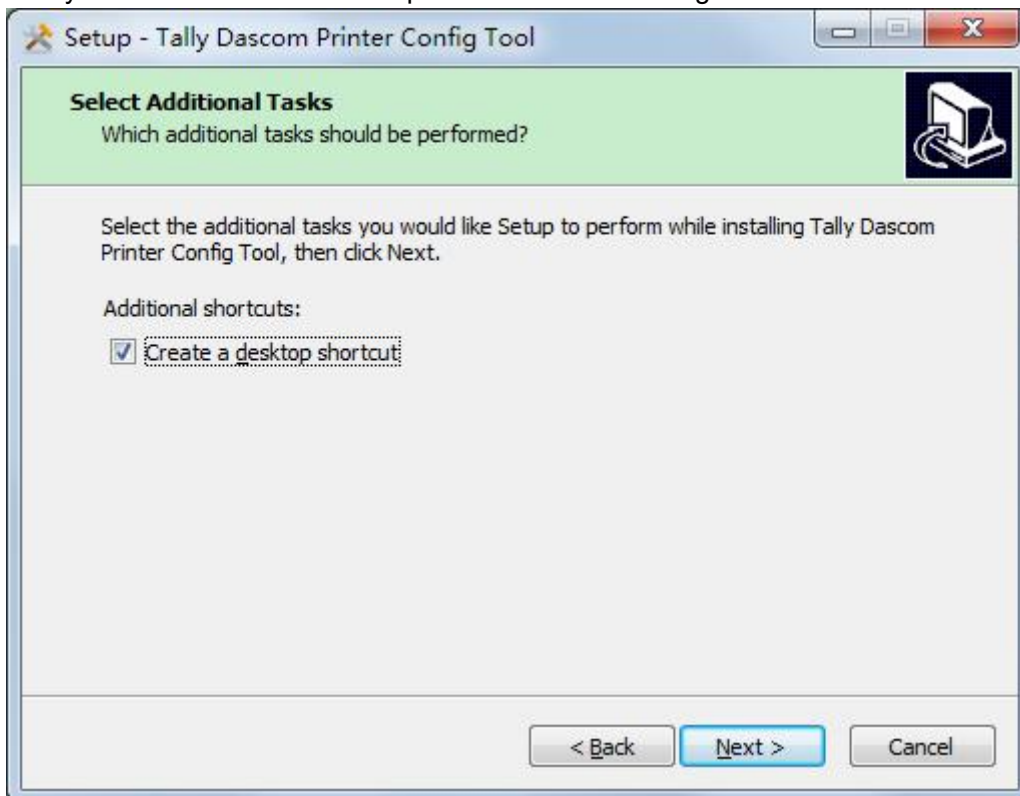
- (1) Specify the installation folder. Then click **Next**.



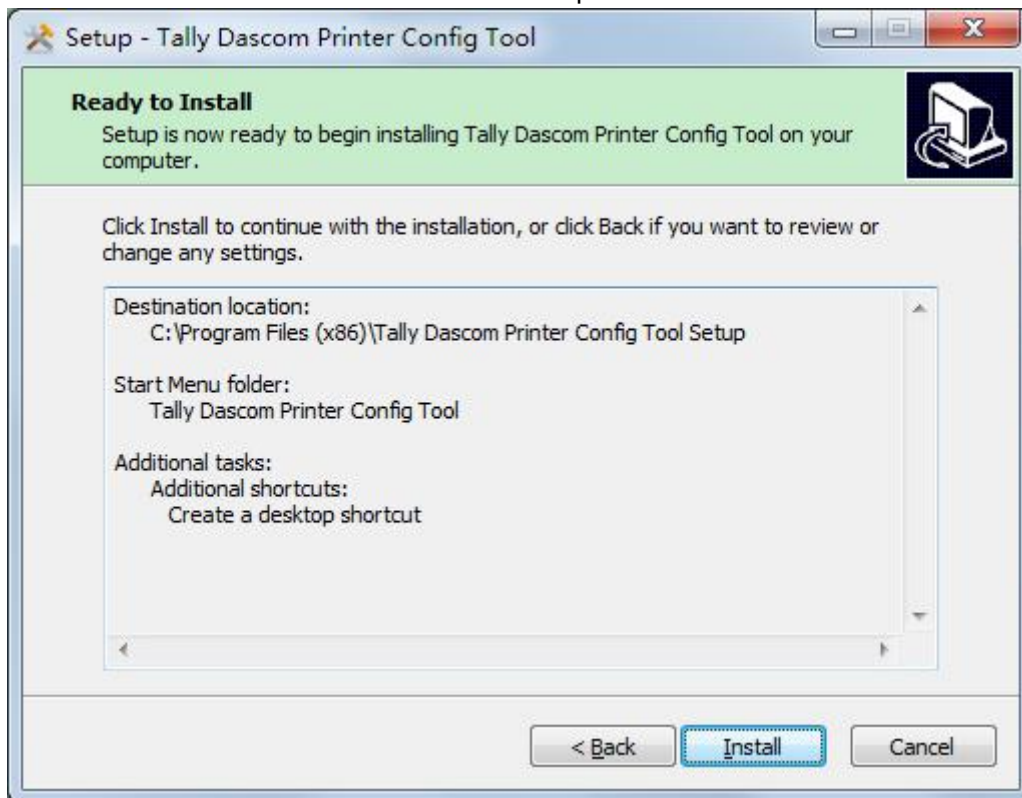
- (2) Decide if you want to create a Start Menu folder. Then click [Next](#).



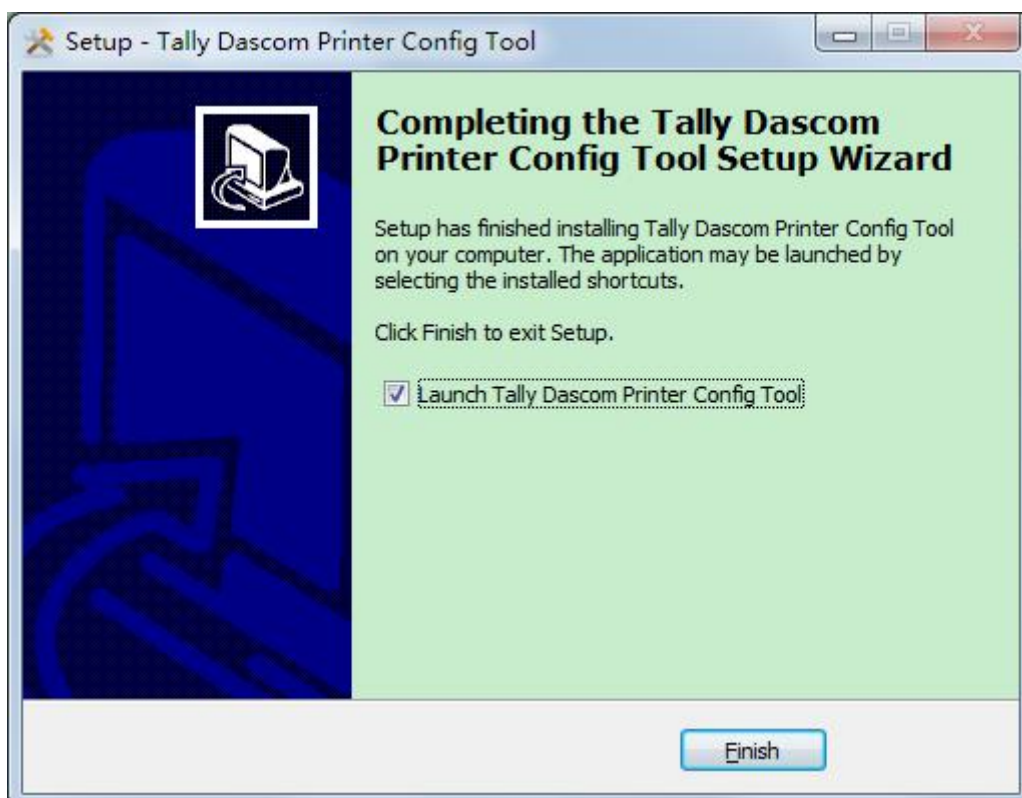
- (3) Decide if you want to create a desktop shortcut for this Configuration Tool.



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



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



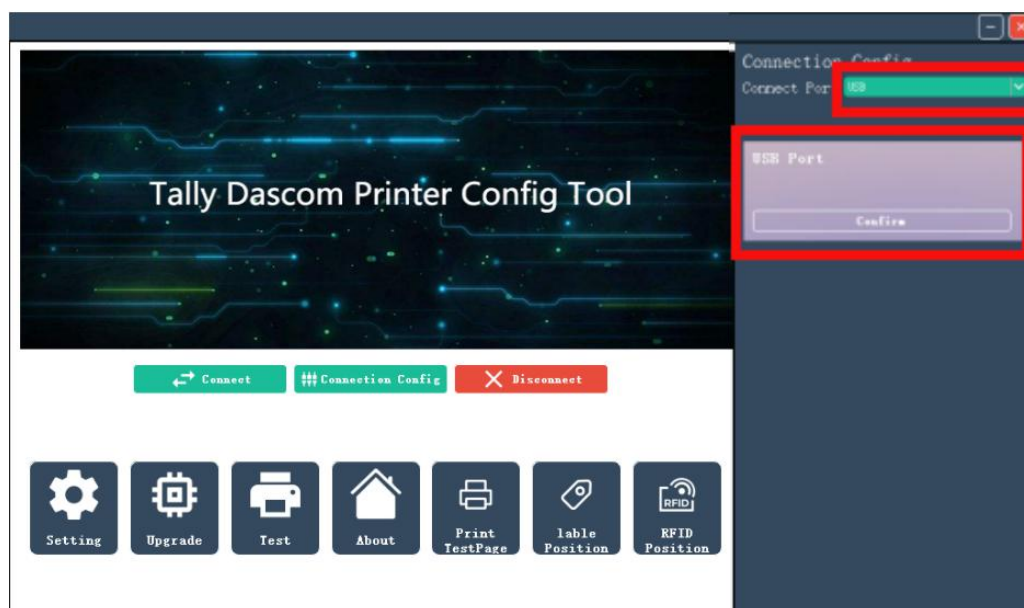
3.3 Using the Configuration Tool

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.



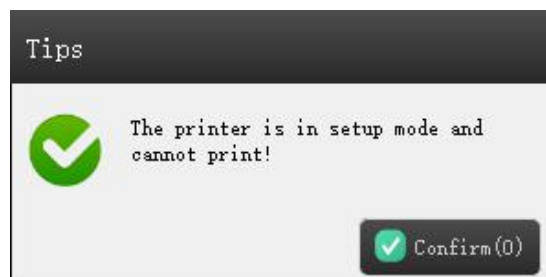
- (2) Click on “Connection config”, select the current “Connection port” with the printer in the upper right corner and set the relevant interface parameters.



- (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.

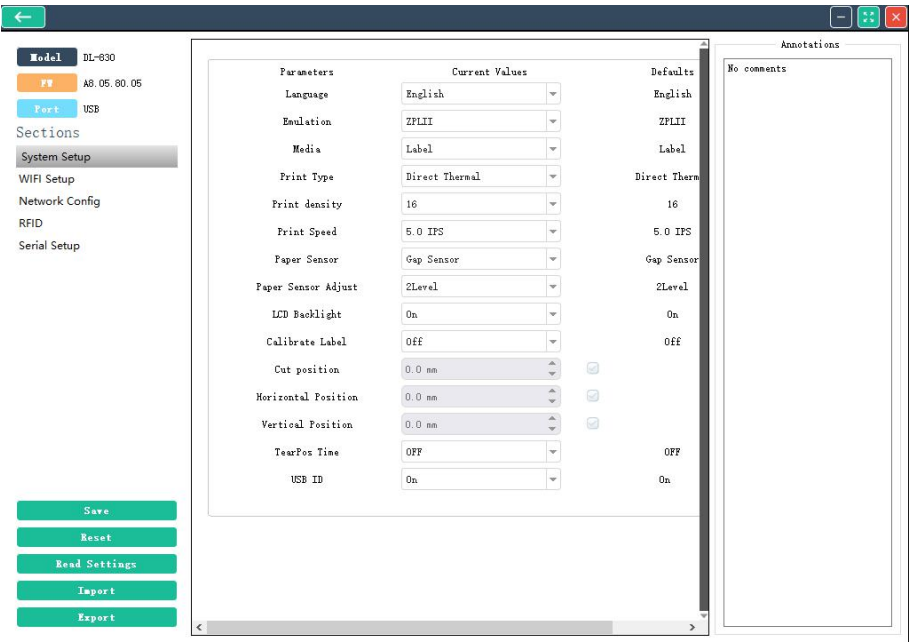


- (4) When you click the “Setting” button, the following prompt appears. Please click “Confirm” to continue.



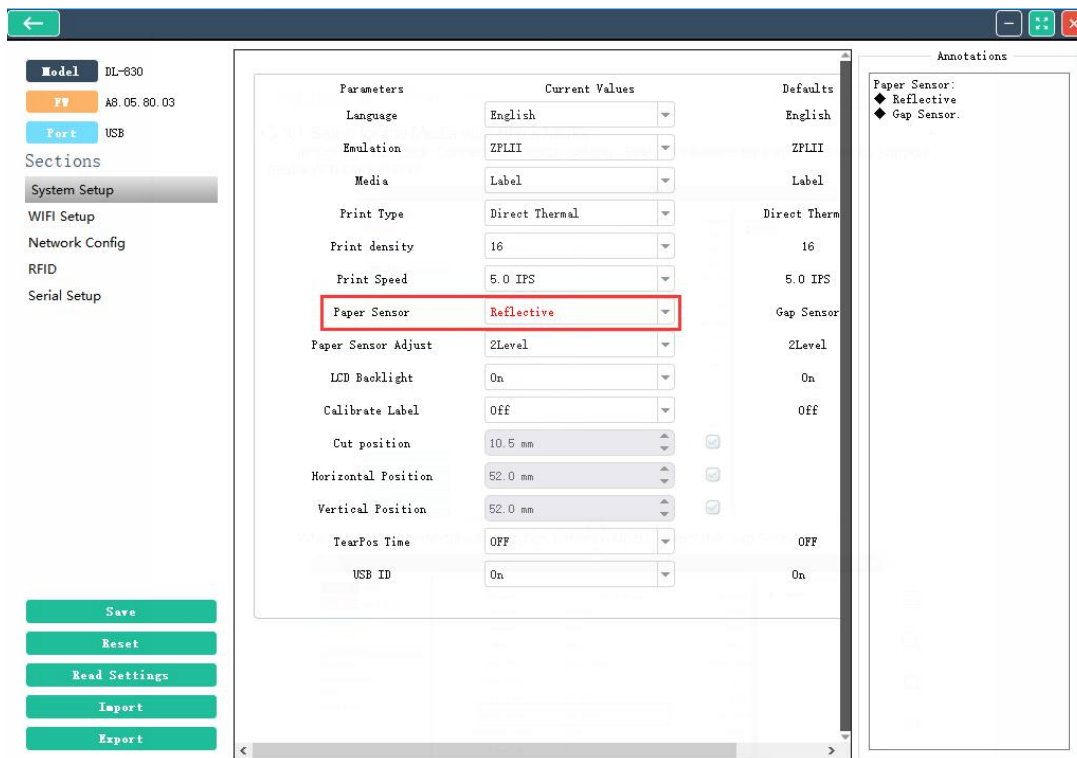
- (5) Settings items may differ depending on the machine version.

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

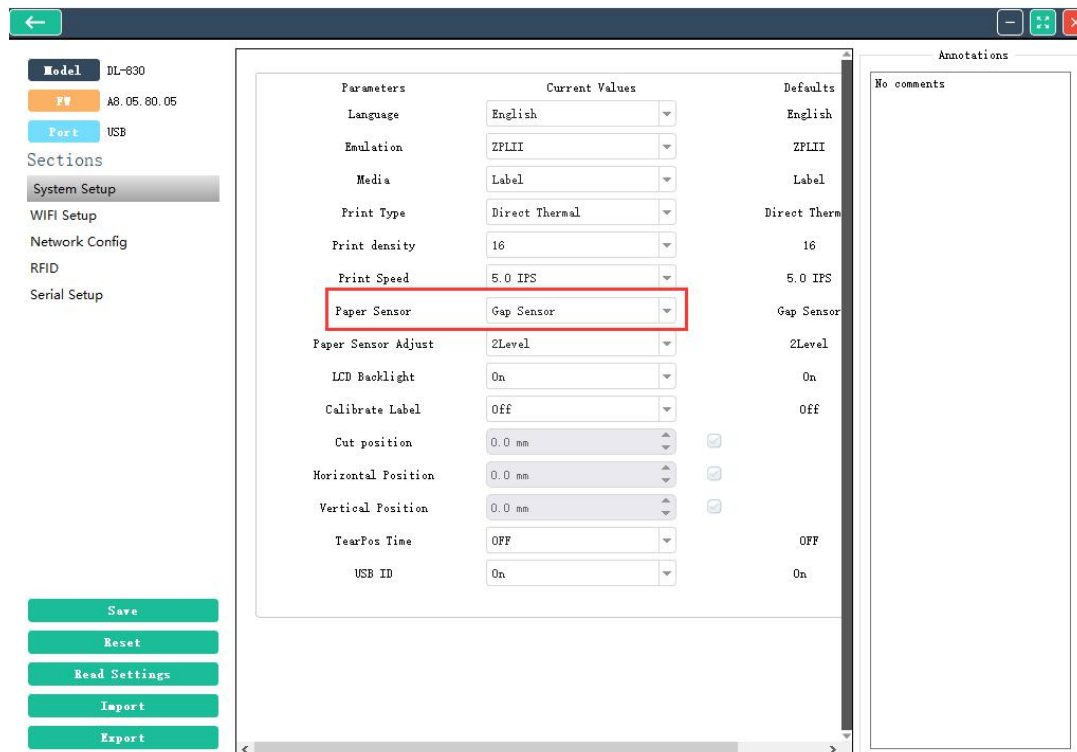


3.3.1 Setup for the Media with Black Marks

In Config Tool, click **Connect**; then click **Setting**. Select **Reflective** for **Paper Sensor** to support media with black marks.



When you use the media with notches between labels, select the **Gap Sensor**.



3.3.2 Setup for the WIFI

In Config Tool, click [Connect](#); then click [Setting](#). Select [WIFI setup](#).

Parameters	Current Values	Defaults
firmware version	A8.05.80.05	
NetWork Type	AP	AP
Channel	Channel11	Channel11
DHCP	ON	ON
Security Mode	Open	Open
WIFI Authentication	OPEN	OPEN
Network Name	WIFI-printf	
Password	NONE	
MAC	10.10.10.10.10.10	
IP Address	192.168.100.7	
Subnet Mask	255.255.255.0	
Gateway	192.168.100.1	
DNS server	192.168.0.100	
Network Port	9100	
auto roaming	off	off
roaming intensity switch value	-60.21	
regional information selection	CHINA(1-13)	CHINA(1-13)

Buttons: Save, Reset, Read Settings, Import, Export, Restore Default, Reset, Write.

3.3.3 Setup for the LAN Connection

In Config Tool, click [Connect](#); then click [Setting](#). Select [Net Config](#).

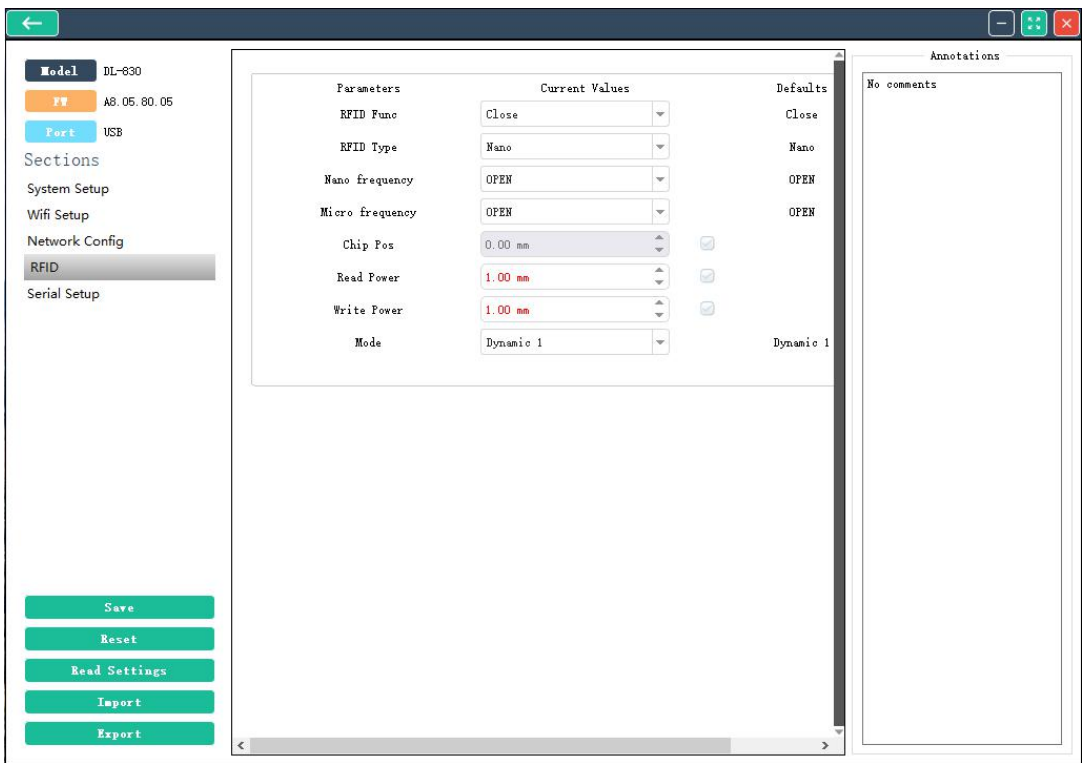
Parameters	Current Values	Defaults
IP Address	192.168.0.7	
Subnet Mask	255.255.255.0	
Gateway	192.168.0.1	
MAC Address	EC.9D.A5.05.42.6A	
IP Type	DHCP IP	DHCP IP

Buttons: Read Settings, Write.

Fill in the LAN information and then click [Write](#).

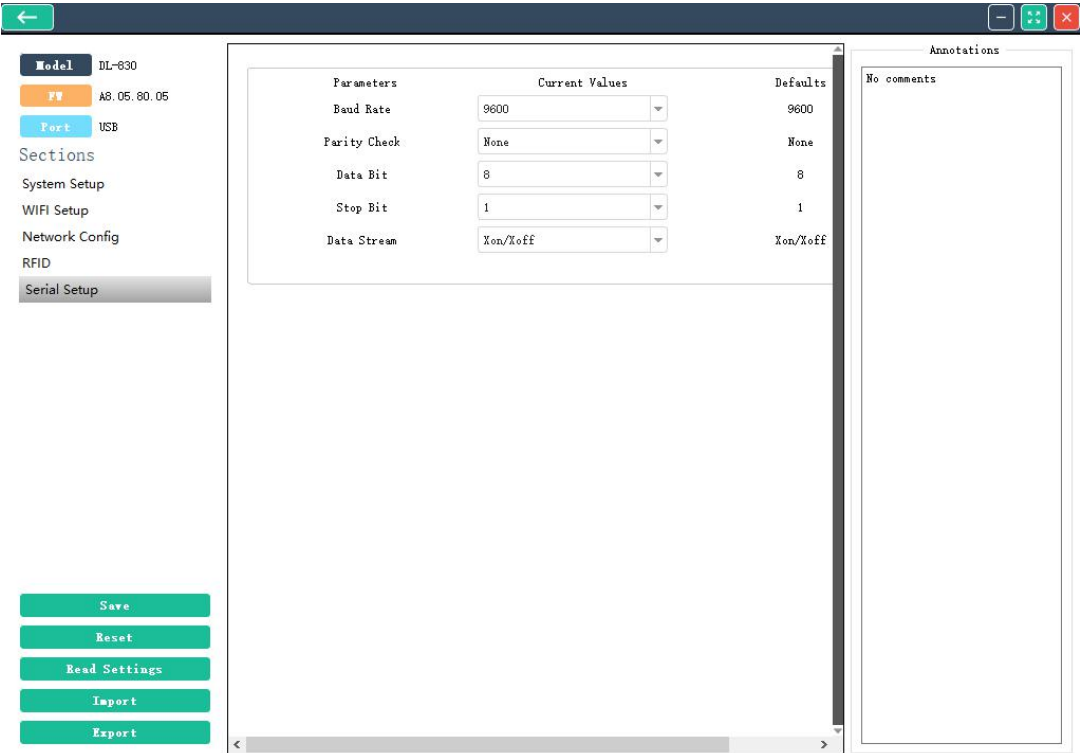
3.3.4 Setup for the RFID

In Config Tool, click [Connect](#); then click [Setting](#). Select [RFID](#).



3.3.5 Setup for the Interface

In Config Tool, click [Connect](#); then click [Setting](#). Select [Serial setup](#).

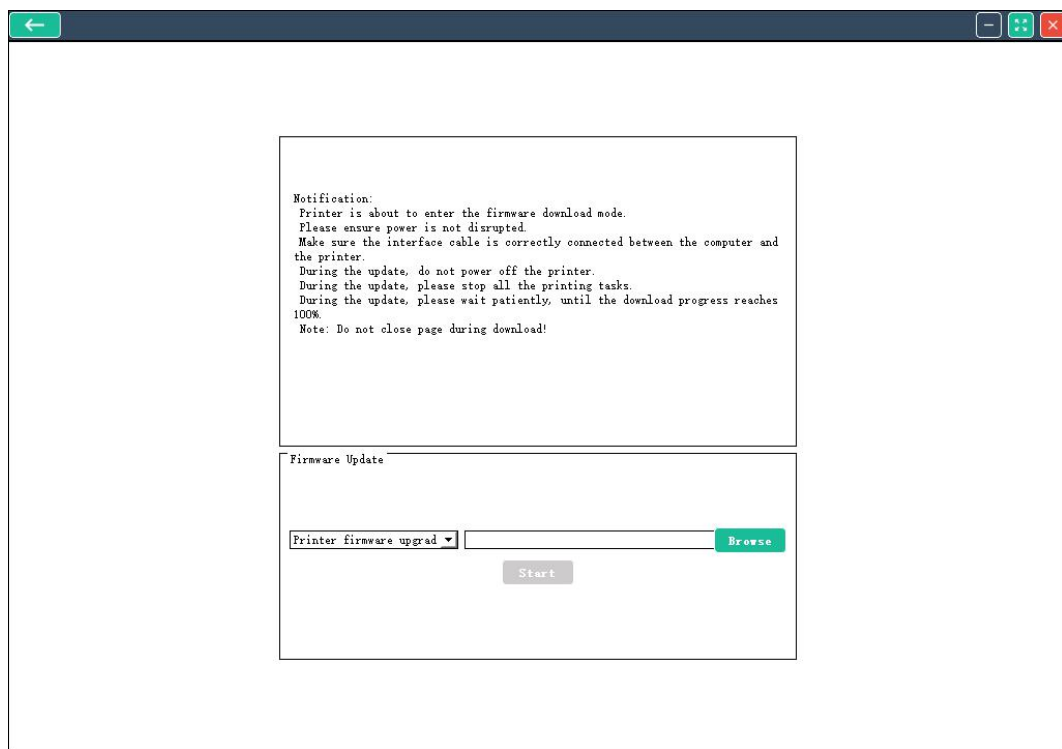


3.3.6 Upgrading the Firmware

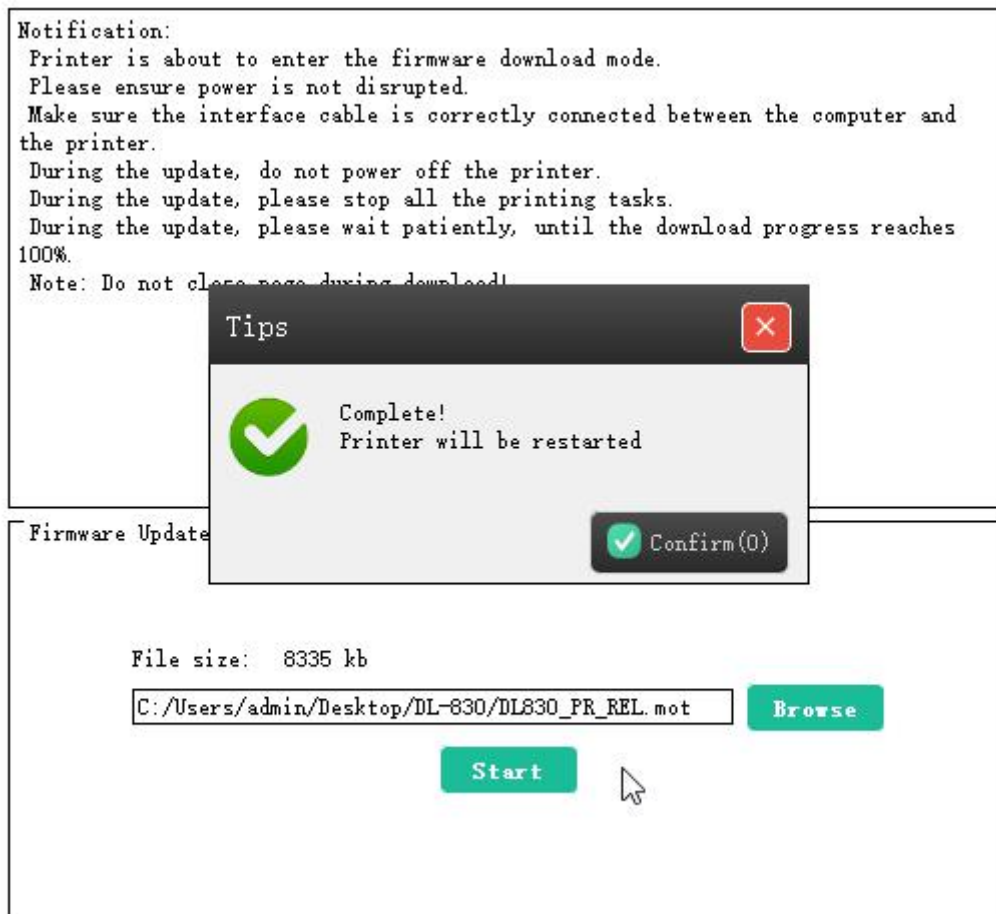
(1) Connect the printer to the PC with an USB cable. Click [Upgrade](#) in the Config Tool menu.



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



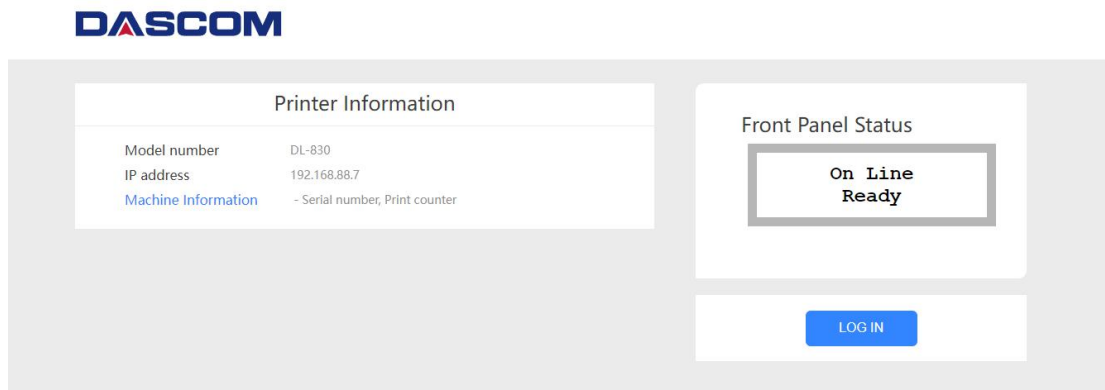
- (3) When the progress bar reaches 100%, the upgrade process is completed and the printer will be restarted.



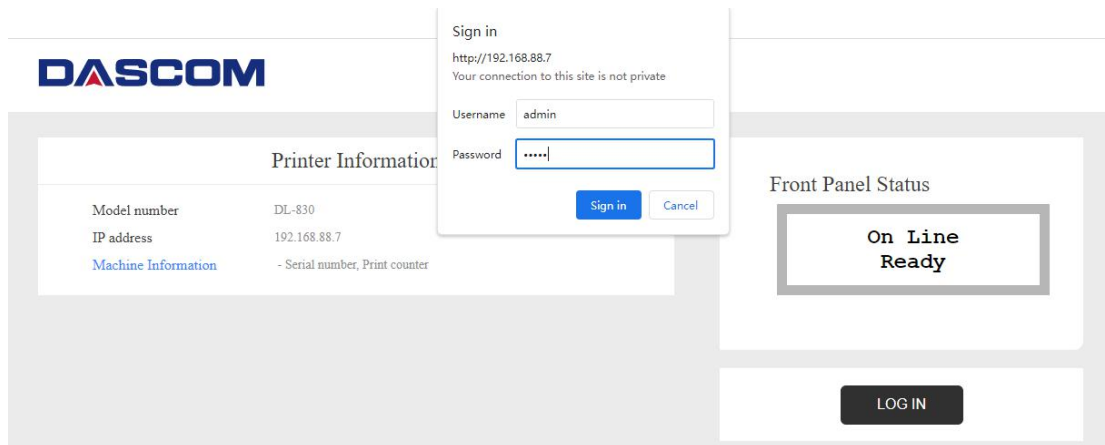
3.4 Using the Web Panel

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

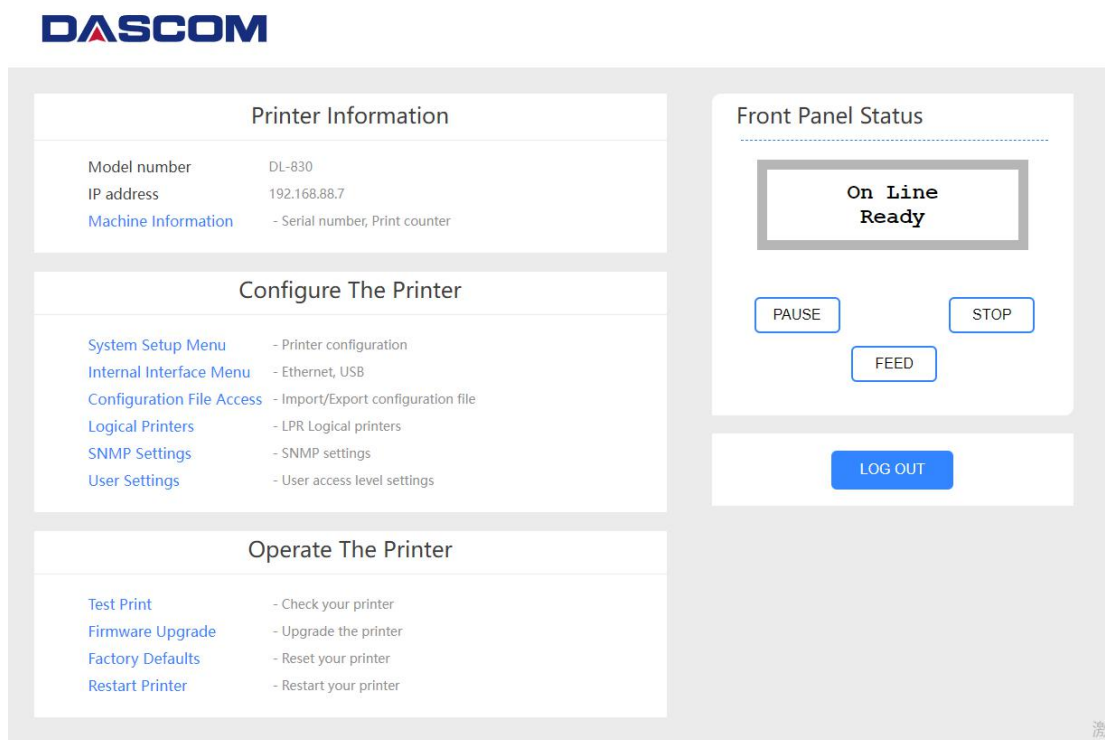


(4) Click "LOG IN" to bring up the user login interface



(5) Enter the username and password to log in. The default administrator username is **admin** and the password is **admin**.

(6) The main page of Web Panel as follows:



3.4.1 Front Panel Status

Front Panel Status: display the current printer status, there are three buttons:

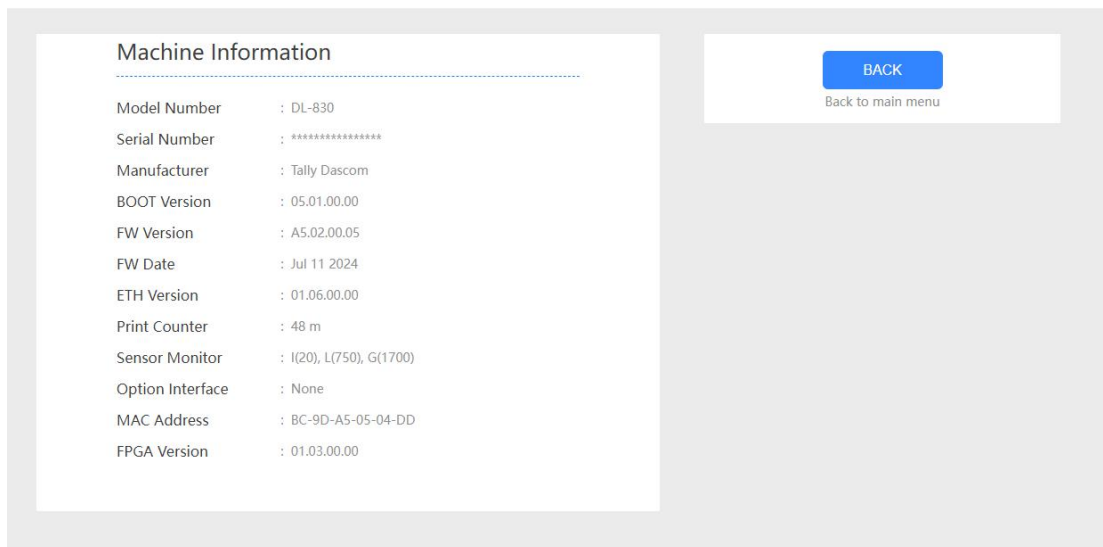
PAUSE: Suspend the current task

STOP: Unpause

FEED: move one sheet of paper

3.4.2 Printer Information

Click "Machine Information" to view printer information:



3.4.3 Configure The Printer

At this point, you can change the printer settings.

(1) System Setup Menu



System Setup Configuration

Menu Language	English	▼
Emulation	ZPLII	▼
Print Media	Continuous paper	▼
Print Method	DT	▼
Print Speed	5.0 IPS	▼
Print Darkness	16	▼
Paper Sensor	Gap Sensor	▼
Sensor Luminous	2	▼
Peeler	Off	▼
Cutter	Off	▼
LCD Light	On	▼
Auto Calibrate	Off	▼
Top Form Sensing	Off	▼
Print Position Detection	Off	▼
Menu Lock	Off	▼
Cut position	+0.0	[-10.5~+10.5] mm
Horizontal position	+0.0	[-36.1~+36.1] mm
Vertical position	+0.0	[-25~+25] mm
TearPOS Time	off	▼
Label Size Adjust	3	[3~400]mm
Backfeed	Off	▼
Label Size	90.0	mm
Gap Size	1.3	mm
Black AD	300	
Label AD	750	
Gap AD	1700	
Print width	106	

SAVE

Save settings

CANCEL

Cancel any changes

BACK

Back to main menu

(2) Internal Interface Menu



The screenshot shows the 'Interface Configuration' menu. It contains the following fields and options:

- IPv4 Address: 192.168.088.007
- IPv4 Subnet Mask: 255.255.255.000
- IPv4 Gateway: 192.168.088.001
- IPv4 DHCP: Off (dropdown menu)
- IPv4 Speed: Auto Negotiation (dropdown menu)
- Host Name: DL-830
- IPv6 Address(Auto): ::

At the bottom left is a blue 'BACK' button with the text 'Back to main menu'. At the top right are two buttons: 'SAVE' (with text 'Save settings') and 'CANCEL' (with text 'Cancel any changes').

IPv4 Address: Set the printer IP address. In dynamic mode, the IP address can be automatically obtained, but in static mode, it needs to be manually entered. The default value is 192.168.0.7

IPv4 Subnet Mask: Set subnet mask. In dynamic mode, the IP address can be automatically obtained. In static mode, manual input is required. The default value is 255.255.255.0

IPv4 Gateway: Set the gateway, the IP address can be automatically obtained in dynamic mode, and manual input is required in static mode. The default value is 192.168.0.1

IPv4 DHCP: Choose whether to enable dynamic mode. When it is on, enable dynamic mode; when it is off, enable static mode

IPv4 Speed: Set the data transmission method for the network port, which can be selected as Auto Negotiation, 10Mbps Half Duplex, 10Mbps Full Duplex, 100Mbps Half Duplex, or 100Mbps Full Duplex

Host Name: Modify the printer network device name

(3) Configuration File Access



Choose File: After clicking, you can select the configuration file from the file list for downloading

IMPORT: To load the configuration file, you need to select the correct configuration file in the Choose File, otherwise it cannot be loaded

EXPORT: Export configuration file, export the current printer configuration as a configuration file, pay attention to whether the file is intercepted by the browser

CANCEL: Clear the selected configuration file

(4) Logical Printers



Description	Queue Name
LPR1	LPR1
LPR2	LPR2
LPR3	LPR3
LPR4	LPR4
LPR5	LPR5
LPR6	LPR6
LPR7	LPR7
Raw Port	RAW

Note - Select a logical printer to configure.

BACK
Back to main menu

Set up LPR protocol for network printing, select the corresponding protocol in **Description** to enter the settings page



LPR1 Setup

☐ Enable

Queue Name:

Description:

Note - For entering binary data use the backslash character followed by 2 hexadecimal digits, such as \1B for an escape or \0A for a line feed or \\ for backslash or \26 for an ampersand.

Note - For string replacement use this format /string1/substitution1;/stringN/substitutionN/ For example /*12CP!*/\1BM/; /*8LPI*/\1B0/.

Pre-String: (max. 50 characters)

Sub-String: (max. 127 characters, max. 10 substitutions)

Post-String: (max. 50 characters)

SAVE Save settings

CANCEL Cancel any changes

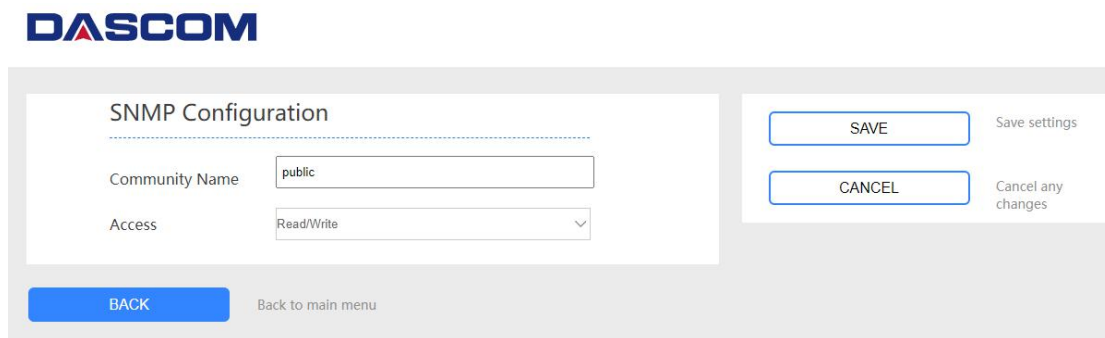
BACK Back to Logical Printers

Enable: After being checked, the current protocol settings will take effect

Queue Name: Change the name of the agreement

Description: Modifying the description of the current protocol will be displayed on the **Logical Printers** interface

(5) SNMP Settings



DASCOM

SNMP Configuration

Community Name:

Access:

BACK Back to main menu

SAVE Save settings

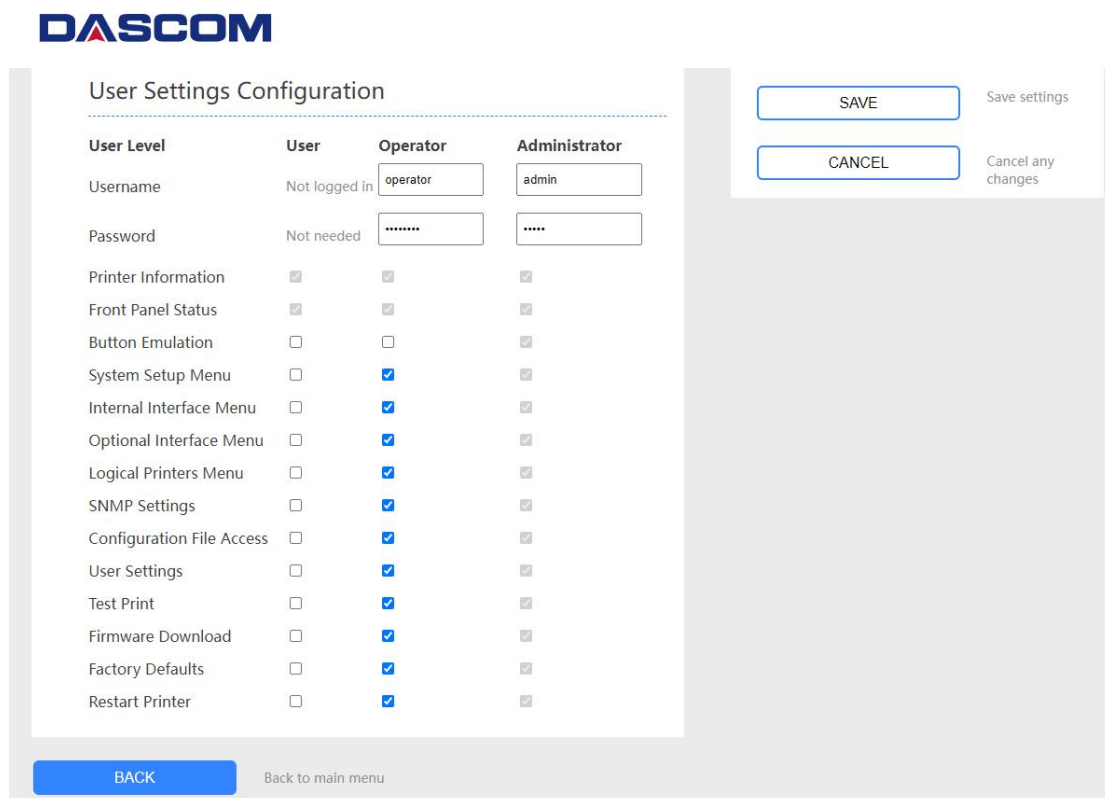
CANCEL Cancel any changes

Community Name: Change the community name

Access: Modify the access permissions of the current community by selecting Read/Write, Read Only

(6) User Settings

Perform user configuration settings, that is, setting up corresponding permissions for users and Operators who use the Web Panel. Operators and Administrators can modify the login username and password.



DASCOM

User Settings Configuration

User Level	User	Operator	Administrator
Username	Not logged in	operator	admin
Password	Not needed	*****	*****
Printer Information	☒	☒	☒
Front Panel Status	☒	☒	☒
Button Emulation	☐	☐	☒
System Setup Menu	☐	☒	☒
Internal Interface Menu	☐	☒	☒
Optional Interface Menu	☐	☒	☒
Logical Printers Menu	☐	☒	☒
SNMP Settings	☐	☒	☒
Configuration File Access	☐	☒	☒
User Settings	☐	☒	☒
Test Print	☐	☒	☒
Firmware Download	☐	☒	☒
Factory Defaults	☐	☒	☒
Restart Printer	☐	☒	☒

BACK Back to main menu

SAVE Save settings

CANCEL Cancel any changes

3.4.4 Operate The Printer

(1) Test Print



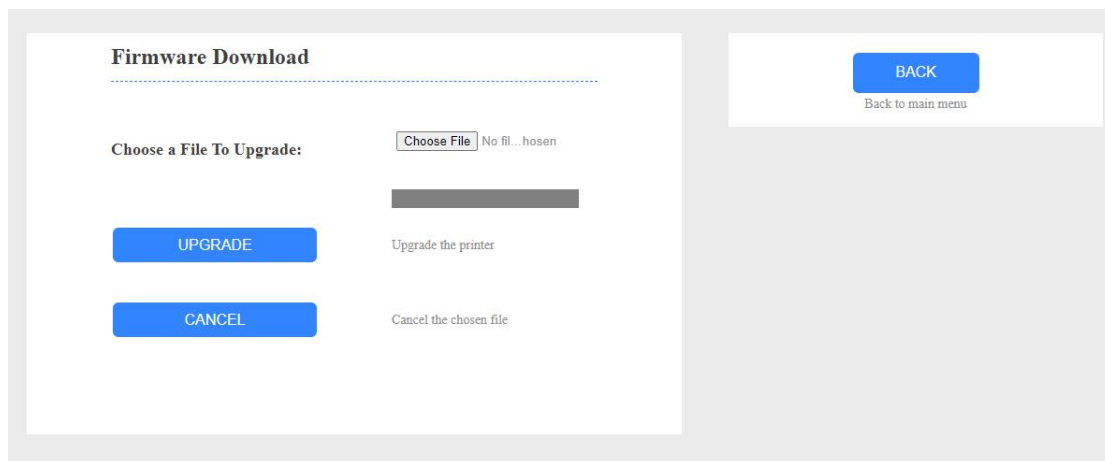
PATTERN: Print image data test samples

CONFIG: Print self check page

HEAD TEST: Print print head test data to detect if there are any bad pixels on the print head

CALIBRATE: Perform label verification

(2) Firmware Upgrade

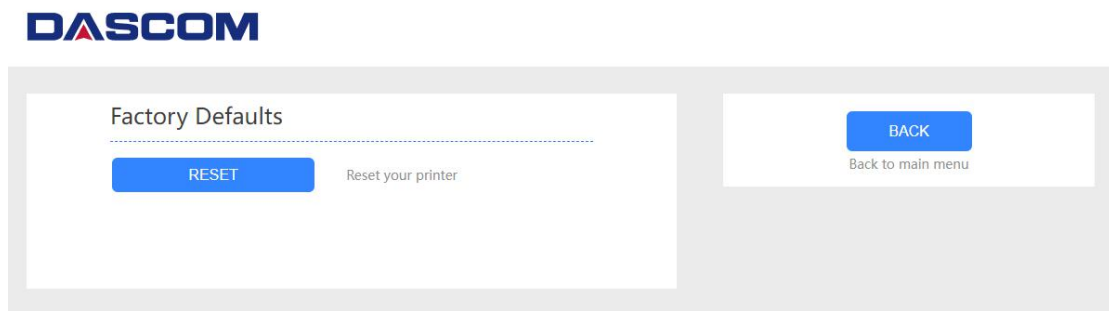


Choose File: After clicking, you can select a file from the file list for downloading

UPGRADE: Before the firmware update, you need to select the correct configuration file in the Choose File

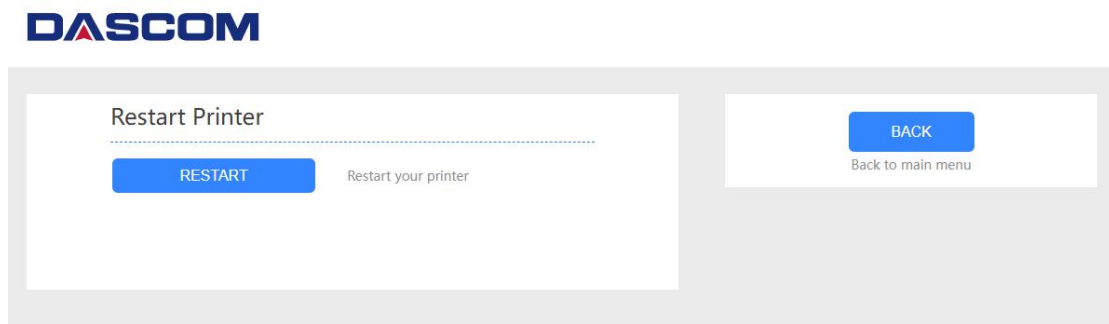
CANCEL: Clear the selected firmware files

(3) Factory Defaults



RESET: Press to restore the printer to factory settings and restart it

(4) Restart Printer



RESTART: Press to restart the printer

CHAPTER 4 SUPPORT UTILITIES

4.1 Configuration List (Self-test Page)

Before connecting the printer to the computer, you should make sure that the printer is in working order. You can print a label for the parameter settings to confirm. (Take one model as an example)

Make sure that the media is installed correctly and that the top cover of the printer is closed. Printing the self-test page in "Test Mode" will print a configuration label.

The contents of the self-test page are explained as follows (the content may be slightly different from the actual situation, and the following content is for reference only)



【Machine information】
 Model: DL-830
 ManuFact: Tally Dascom
 FW Ver: A8.05.80.02
 BOOT Ver: 05.01.00.00
 FPGA Ver: 01.03.00.00
 HD Ver: 3.0
 CG Ver: 2.00
 FW Time: Sep 12 2024
 Machine Num: *****



【System Setup】
 Language: English
 Emulation: ZPLII
 Media: Label
 Print Type: Direct thermal
 Print density: 16
 Label size: 90.0mm
 Gap size: 1.3mm
 Label AD: 750
 Gap AD: 1700
 DA Sensor: 20mA
 Print speed: 5.0 IPS
 Paper Sensor: Gap Sensor
 Paper Sensor Adjust: 2Level
 Paper Out AD: On(2470)
 Peeler: Off
 Cutter: Off
 Print count: 147m
 LCD Backlight: On
 Calibrate Label: No
 Top Form Sensing: No
 Print Position: No
 Cut position: 0.0 mm
 Horizontal position: 0.0 mm
 Vertical position: 0.0 mm
 Print width: 106mm(12dot/mm)
 TearPOS Time: Off
 Backfeed: No
 TTF FONT: No
 menu Lock: No

【Net Config】
 NET Ver: 02.07.00.00
 IP Address: 192.168.0.7
 IP Mode: DHCP
 Subnet Mask: 255.255.255.0
 Gateway: 192.168.0.1
 IPv4 Speed: Auto Negotiation
 MAC Address: BC:9D:A5:05:95:03



【Serial interface】
 Baud rate: 9600
 Parity: NO
 Data: 8 Bit
 Stop: 1 Bit
 Stream: XON_XOFF

【RFID】
 RFID Function: On
 RFID Type: E7108
 RFID ver: 00.00.44.38
 frequency: PRC
 chip-pos: 10 mm
 read power: 10.00 dBm
 write power: 13.00 dBm
 Retry Cnt: 1
 Sheet cnt: 3
 search timeout: 100 ms
 write timeout: 500 ms
 Mode: Static Batch

***** Complete *****

4.2 How to Print the Self-Test Sheet

4.2.1 Use the Button to Print the Self-Test Sheet

- (1) Properly load the media. Close the top cover. Turn off the power.
- (2) Hold the ►► button when turn on the printer.
- (3) Release the ►► button after the power LED flashes once and the buzzer beeps once. The printer then prints out the configuration list.

4.2.2 Use the Control Panel to Print the Self-Test Page

- (1) Hold the :: button Enter the menu, and after entering, it will be shown below.

Tally Dascom DL-830
Machine Information <
Setup

- (2) Hold the || button Until the "Test Mode" appears:

Tally Dascom DL-830
Test Mode <
Setup

- (3) After entering the "Test Mode", find "Print Test", select "Yes", press the menu key twice, and exit the menu settings:

Tally Dascom DL-830
Print Test <
Yes

4.2.3 Use the Configuration Tool to Print the Self-Test Sheet



4.3 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 ►► button when turn on the printer. Release this key after the power LED flashes 3 times and the buzzer beeps 3 time.

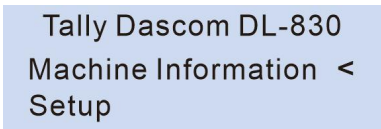
4.4 Auto Media Registration

4.4.1 Use the Key Method to Locate the Label Normally

- (1) Non-RFID model: The printer is turned off, press and hold the paper feed button at the same time, power on the printer, and release the paper feed button when the buzzer rings twice.
- (2) RFID model in the menu set RFID off: the printer is in the shutdown state, press and hold the paper feed button at the same time, power on the printer, when the buzzer rings twice, let go of the paper feed button.
- (3) RFID model in the menu setting RFID on: the printer is turned off, press and hold the paper feed button at the same time, power on the printer, when the buzzer rings seven times, let go of the paper feed button.

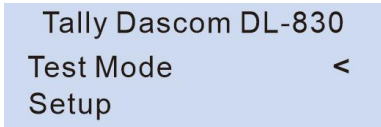
4.4.2 Use the Control Panel for Normal Label Positioning

- (1) Hold the :: button Enter the menu, and after entering, it will be shown below.



```
Tally Dascom DL-830
Machine Information <
Setup
```

- (2) Hold the || button Until the "Test Mode" appears:



```
Tally Dascom DL-830
Test Mode <
Setup
```

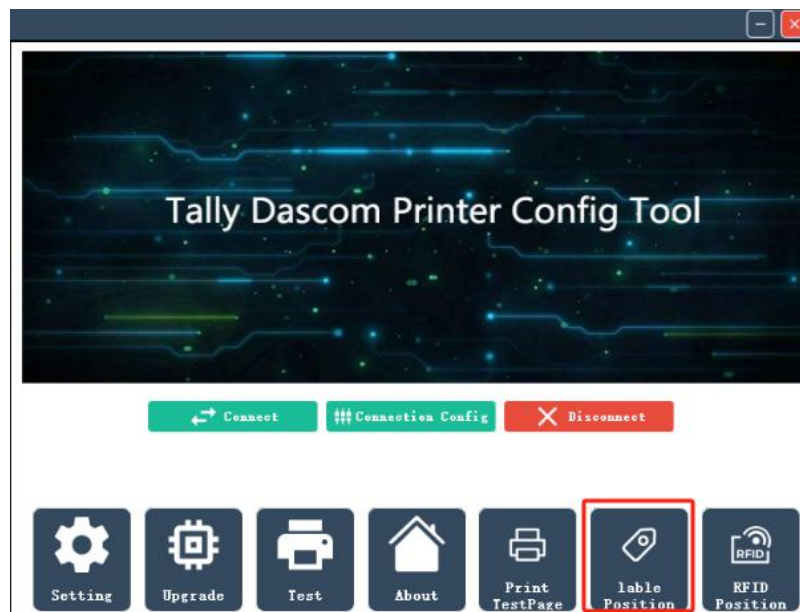
- (3) After entering the "Test Mode", find "Print Test", select "Yes", press the menu key twice, and exit the menu settings:



```
Tally Dascom DL-830
Print Test <
No
```

- (4) Click the ■ button, find "Label Calibrate", select "Yes", press the menu key twice, and exit

4.4.3 Use the Configuration Tool for Normal Label Positioning



After connecting the printer, click "Label Position":

- Please check that the paper is properly mounted on the printer.
- When you turn on the power or open or close the print head, the printer automatically positions the label

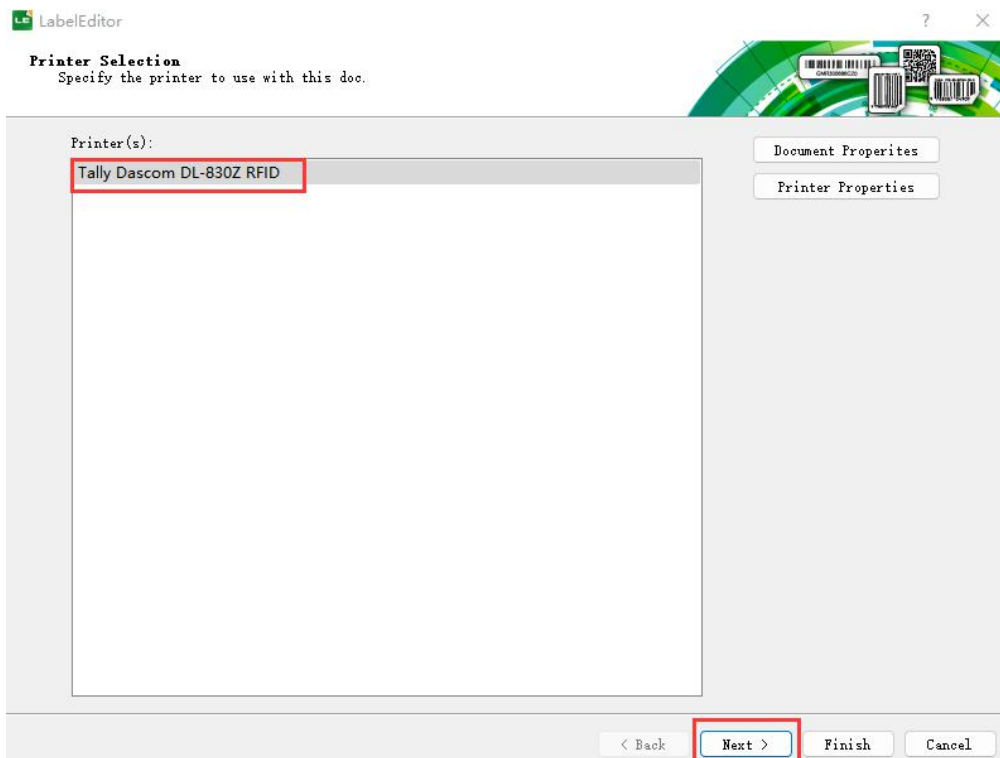
CHAPTER 5 USE of LE

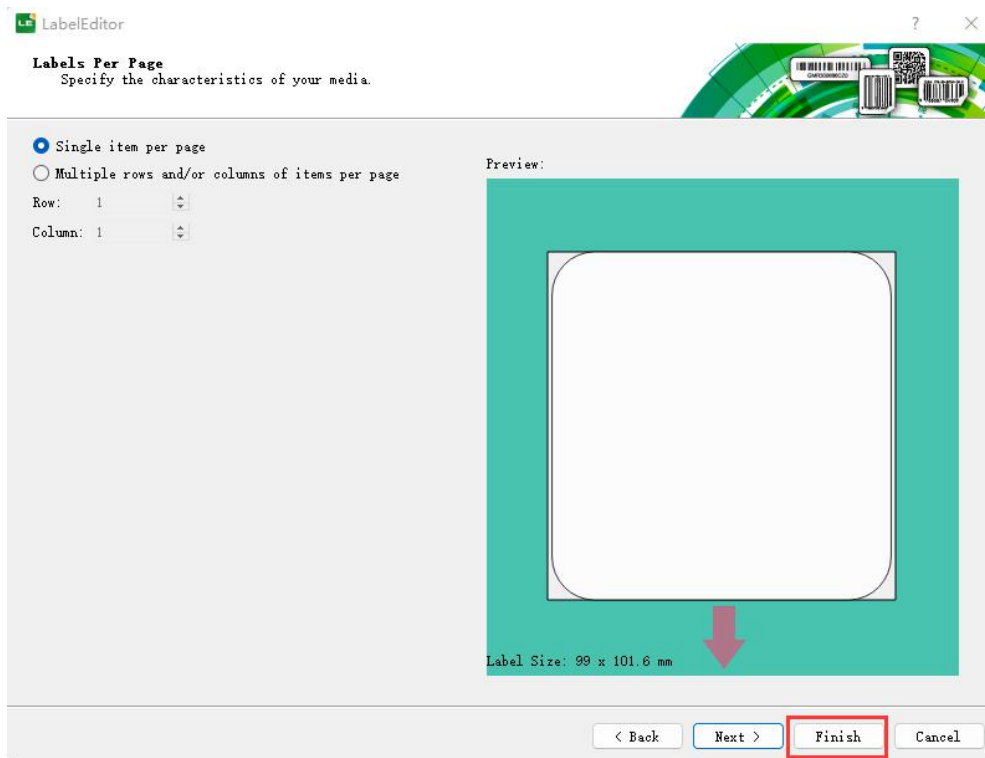
5.1 Create a New Document

(1) Click the **New** button



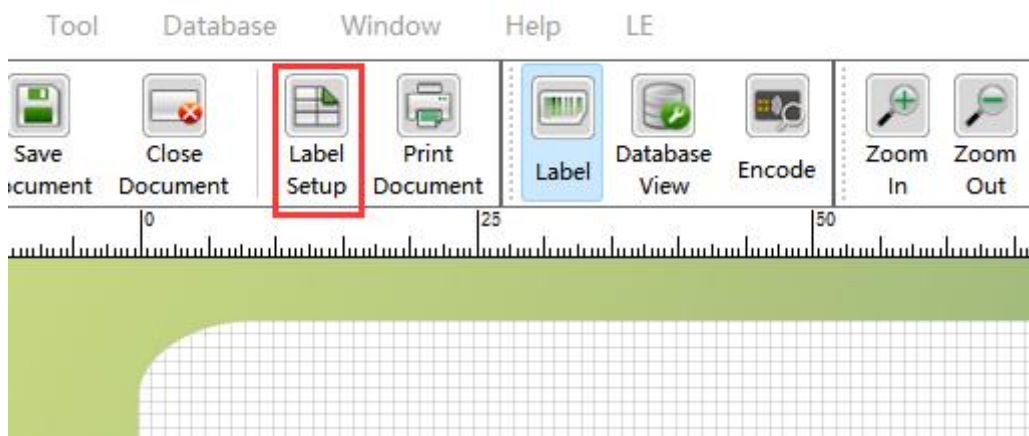
(2) Select the print driver, then click **Next**, and finally click **Finish**.



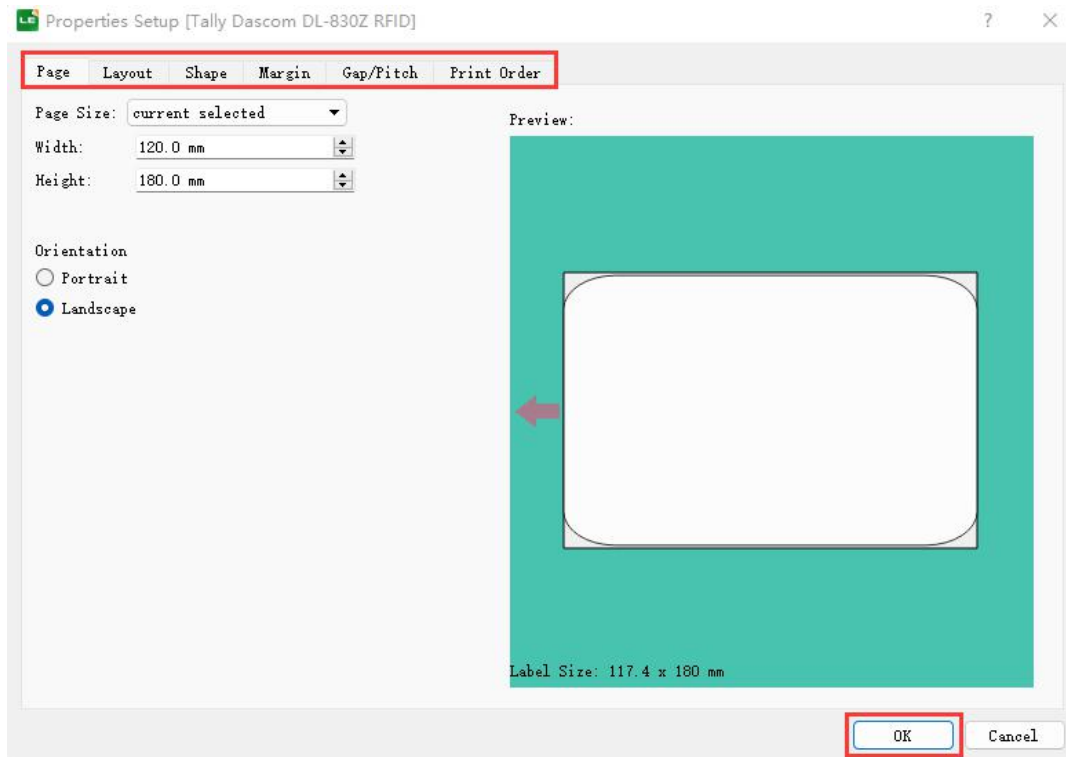


5.2 Label Setup

(1) Click the [Label Setup](#) button

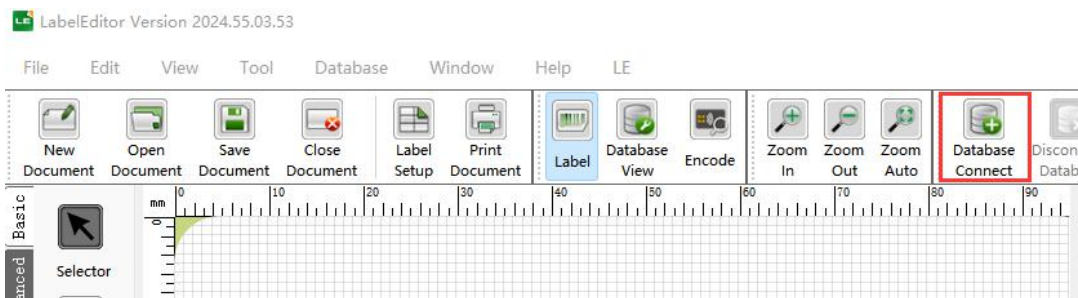


(2) In the pop-up dialog box, set the settings according to the actual situation, and finally press [OK](#).

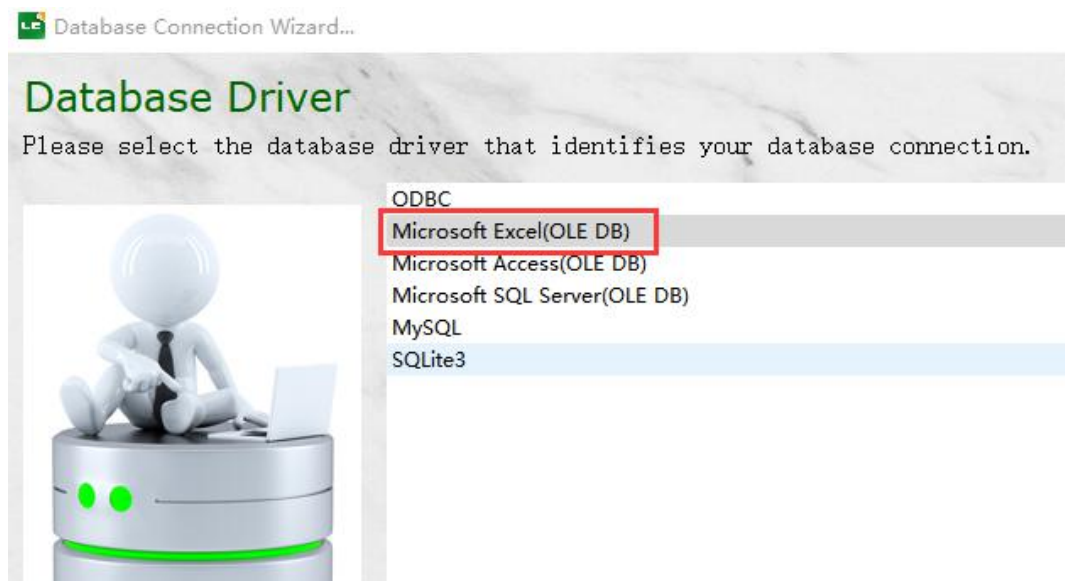


5.3 Database Connect

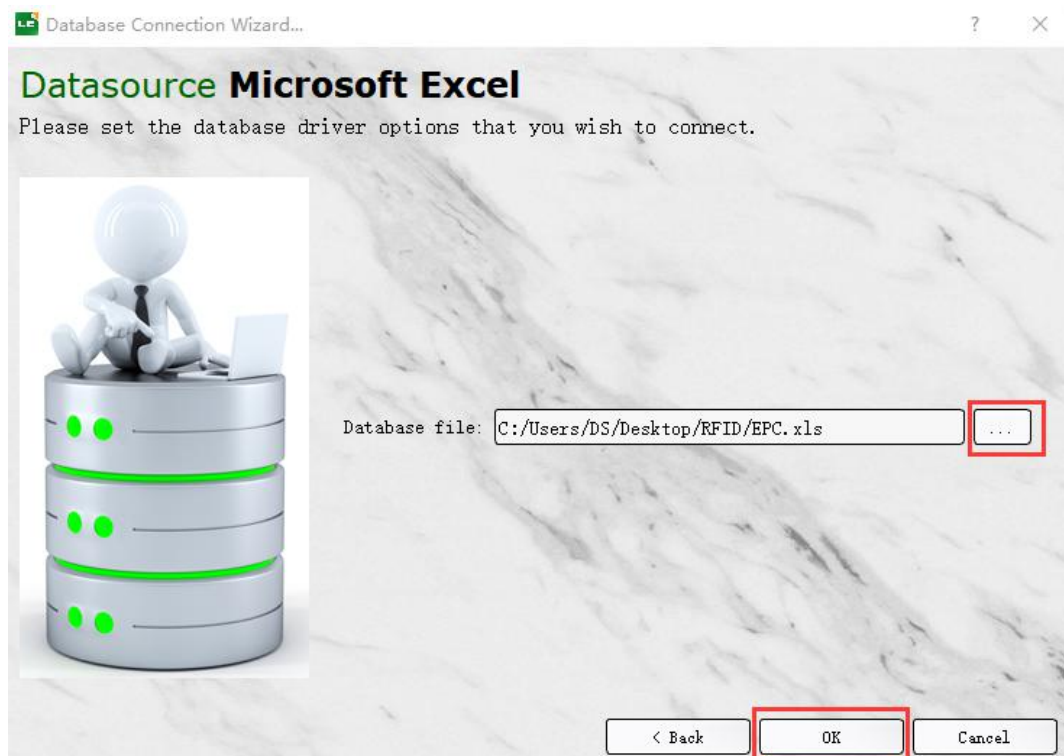
(1) Click the [Database Connect](#) button



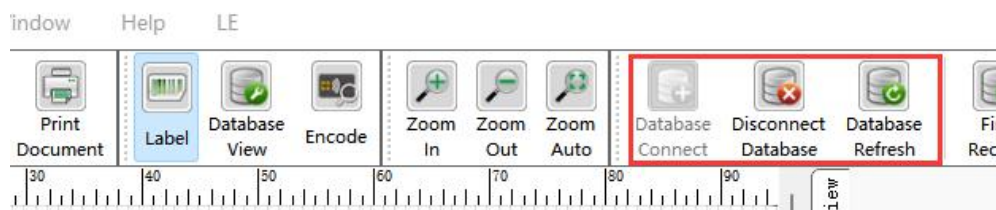
(2) Select the [Microsoft Excel\(OLE DB\)](#)



(3) Select the file path and finally click the [OK](#).



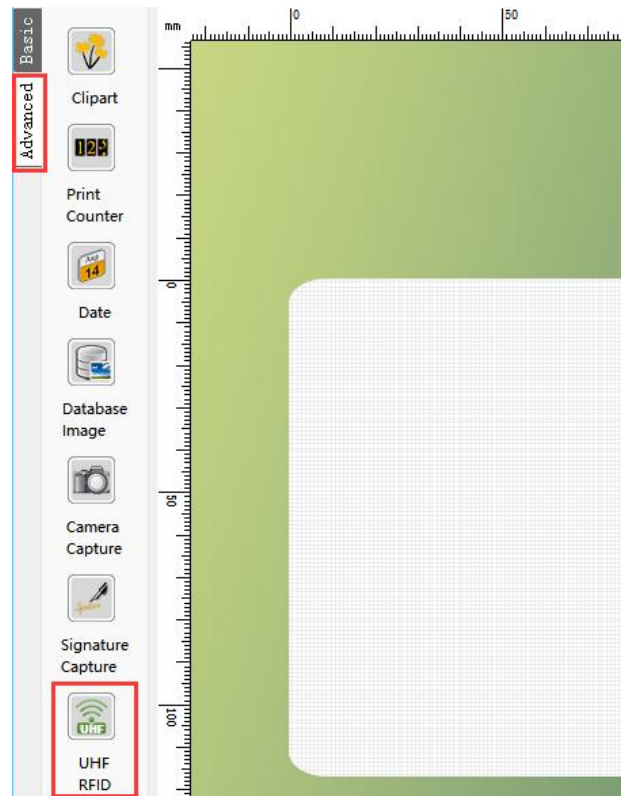
(4) The database is successfully connected, as shown in the following figure



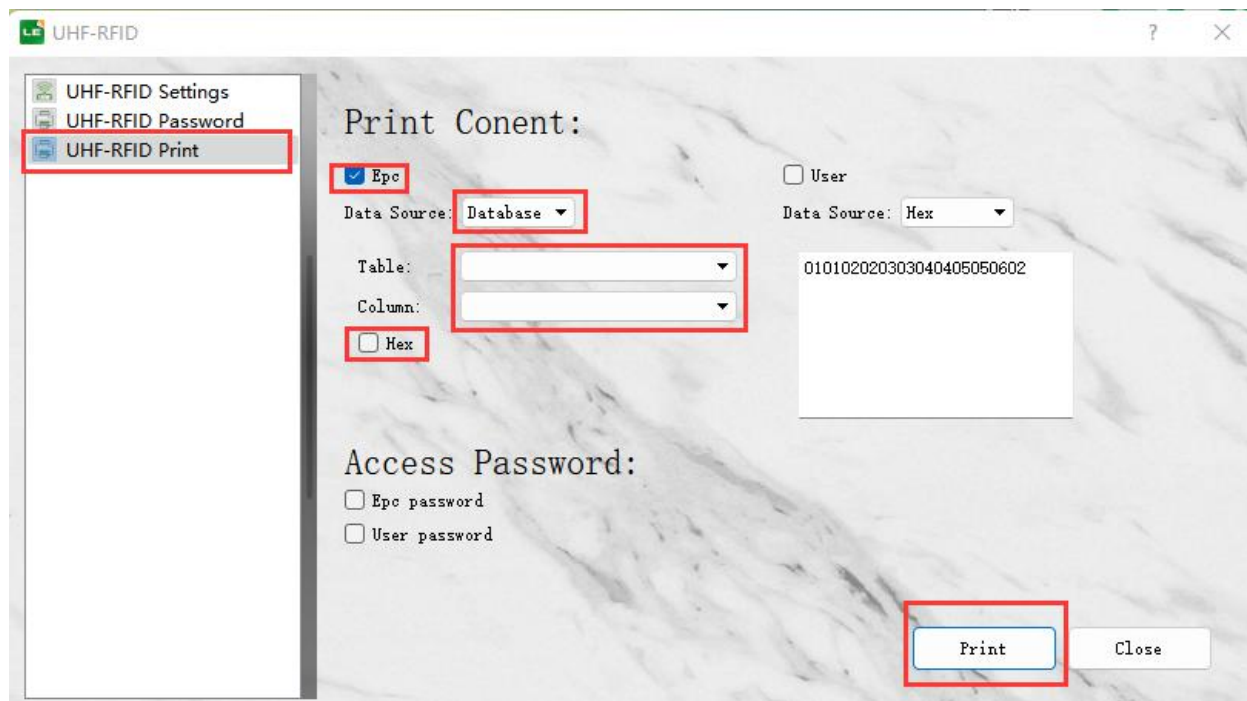
Note: after connecting to the database, if you want to edit the contents of the database, you need to press [Disconnect Database](#) to disconnect, and then press [Database Connect](#) to reconnect to the database after editing the database and saving it.

5.4 Use the Data from the Database

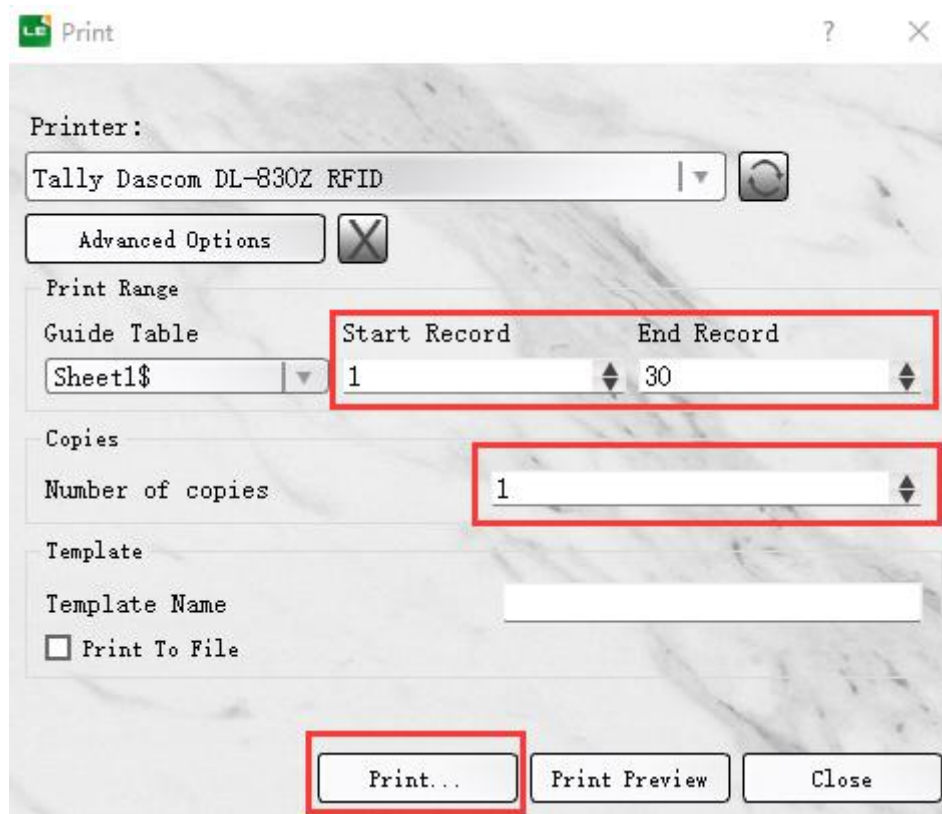
(1) Click [Advanced](#), then click [UHF RFID](#), move the mouse to the label area, then click the left mouse button, do not release, drag the mouse to the lower right, and then release the left button



The following dialog box appears, the red box shows the settings and operation examples:



Click the [Print](#), following dialog box appears



The image shows a 'Print' dialog box with the following fields and controls:

- Printer:** A dropdown menu showing 'Tally Dascom DL-830Z RFID'.
- Advanced Options:** A button with a minus sign icon.
- Print Range:**
 - Guide Table:** A dropdown menu showing 'Sheet1\$'.
 - Start Record:** A text box containing '1'.
 - End Record:** A text box containing '30'.
- Copies:**
 - Number of copies:** A text box containing '1'.
- Template:**
 - Template Name:** An empty text box.
 - Print To File:** An unchecked checkbox.
- Buttons:** 'Print...', 'Print Preview', and 'Close'.

Red boxes highlight the 'Start Record' and 'End Record' fields, the 'Number of copies' field, and the 'Print...' button.

Note: Before printing, record the first sheet printed, so that when you read the EPC number later, you will know which label is the first one.

CHAPTER 6 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.

6.1 Diagnostics

This list provides recommended solutions to the problems. Consult the re-seller's customer support if faults persists.

Faults	Probable Causes	Recommended Solutions
No power light	● Poor power connections ● Broken power cord ● Broken fuse	● Ensure secure connections from the printer socket to the wall socket. ● Ensure to use power cord dedicated for this printer. ● Check the switch box if the fuse is intact.
No printout but normal media feeding	● Dirty print head ● Media stuck on the head ● Improper ink ribbon	● Use supplied print head cleaning kit to clean the head. ● Remove the blocking media from the head and clean the adhesive left on the head with a cloth soaked with alcohol . (<i>Using metallic tools to clear blocking media may damage the head.</i>) ● Install genuine and correct type of ribbon for your media.
Unclear printout	● Mismatch media and ribbon parameters ● Incorrect darkness ● Dirty or deformed rollers ● Media fall on the head ● Improper ink ribbon ● Improper media thickness ● Unbalance head pressure across the media width	● Adjust different media/ribbon setting combinations. ● Choose the proper density in the menu or driver settings. ● Clean the rollers with alcohol. Replace them if deformed. (<i>Consult the re-seller to order parts.</i>) ● Remove the blocking media from the head and clean the adhesive left on the head with a cloth soaked with alcohol . (<i>Using metallic tools to clear blocking media may damage the head.</i>) ● Install genuine and correct type of ribbon for your media. ● Turn the Media Thickness Dial for proper clearance between the head and the media. ● Slide the Media Width Slider for proper head pressure.
Print position shifted	● Mismatch media and ribbon parameters ● Dirty or deformed rollers ● Incorrect codes and commands from the PC ● Incorrect menu settings ● Improper sensitivity for the media sensor	● Adjust different media/ribbon setting combinations.. ● Clean the rollers with alcohol. Replace them if deformed. (<i>Consult the re-seller to order parts.</i>) ● If error message is displayed, check the software contents, the communication settings in the PC. ● Use the operation panel or Config Tool to correct the settings.

Faults	Probable Causes	Recommended Solutions
		Choose proper media sensor sensitivity. If the problem persists, change the sensor sensitivity level in System Setup.
Winkled ribbon	- Improper ribbon tension - Left/right tension of the ribbon not balanced - Incorrect darkness - Improper media and ink ribbon	- Turn the Ribbon Winding Knob to adjust the tension. - Turn the Ribbon Balance Dial. - Choose the proper density in the menu or driver settings. - Use genuine and correct type of supplies. (<i>Consult the re-seller for supplies.</i>)
Slipping ribbon (dirts accumulate)	Improper ribbon tension	Turn the Ribbon Winding Knob to adjust the tension.
Jammed ribbon	- Incorrect ribbon winding - Reversed ribbon	- Reload the ribbon correctly - Install the ribbon in the correct winding direction.

6.2 Restore Factory Default Settings

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

- When turn on the power, hold the ►► key until the power LED flashes 4 times and the buzzer beeps 4 times.
- Use the Configuration Tool to restore factory defaults.
- Use control panel to restore factory defaults.

6.3 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.
- Remove the media attached to the ribbon. Remove the ribbon. Use a cotton swab, soaked with alcohol to clean up the print head.
- Reload the media.
- Reload the ribbon. Turn the winding knob to get the affected portion of ribbon out of the way.

6.4 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 and unload the ribbon. 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.

6.5 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 losing the cable winding and components inside. Avoid metallic objects falling into the electric areas to cause short-circuit.

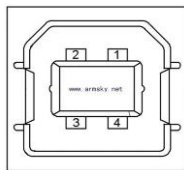
CHAPTER 7 INTERFACE SPECIFICATIONS

7.1 USB

USB Pin Assignment:

Pin	Signal Name	Color
1	VBUS	Red
2	D-	White
3	D+	Green
4	GND	Black

USB B Female Connector:

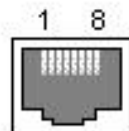


7.2 Ethernet

Pin Assignment

Pin	Signal Name	Description
1	TX+	Transmit Data+
2	TX-	Transmit Data-
3	RX+	Receive Data+
4	n/c	Not connected
5	n/c	Not connected
6	RX-	Receive Data-
7	n/c	Not connected
8	n/c	Not connected

RJ-45 Connector:

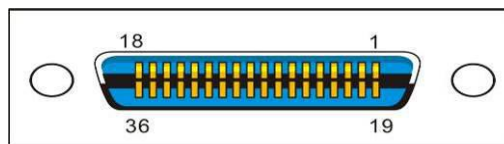


7.3 Parallel

Pin	Source	Signal Name
1	H	STROBE*
2	H	Data0 (LSB)
3	H	Data1
4	H	Data2
5	H	Data3
6	H	Data4
7	H	Data5
8	H	Data6
9	H	Data7 (MSB)
10	P	ACK*
11	P	BUSY
12	P	PError
13	—	Not Connected
14	—	Not Connected
15	—	Not Connected
16	Logic Ground	
17	Chassis Ground	
18	—	5V/500mA driver
19~30	Logic Ground	
31	—	INIT*
32	P	FAULT*
33	Logic Ground	
34~35	—	Not Connected
36	Not Connected	

Remarks: H - signal source from host; P - signal source from printer.

1284-B Connector:



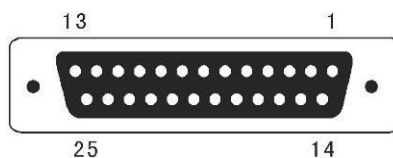
7.4 Serial

The serial interface of this printer is compatible with RS-232, using DB25 hole type socket.

Pin	Signal Name
PIN1	GROUND
PIN2	TXD
PIN 3	RXD
PIN 4	RTS
PIN 5	EMPTY
PIN 6	DSR
PIN 7	SIGNAL GROUND
PIN 8~19	EMPTY
PIN 20	DTR
PIN 21~25	EMPTY

The settings of serial interface can be checked by printing self-test page. The default baud rate is 38400bps, 8 data bit, no parity, and 1 stop bit. Handshaking protocol is DTR/DSR.

Serial interface connector



7.5 WIFI

Function description:

Network type – User to select.

STA- IP address will be obtained from the terminal network.

AP- IP address will be obtained from the printer, which is acted as WIFI access point.

Channel number – User defined. It can be selected according to the channel number of the router.

DHCP – User defined. IP address can be obtained dynamically.

Security mode – User defined. User can select the security mode according to WIFI mode and router encryption type.

Network name – User defined.

IP Address – User defined. If Static Address Method is selected, type in the address the printer will use on the network.

SubNetMask – User defined. If Static Address Method is selected, type in the subnet mark of the network.

GateWay – User defined. If Static Address Method is selected, type in the gateway address of the network.

WIFI Port – Default value = 9100

Specification:

	Item	Parameters
Wireless	Wireless Standard	IEEE802.11b/g/n
	Frequency Range	2.412~2.462 GHz
	Receiver Sensitivity	802.11b: -82 dBm @ 11Mbps (typical) 802.11g: -68 dBm @ 54Mbps (typical)
	Data Rate	802.11b: 1,2,5.5,11 Mbps
		802.11g: 6,9,12,18,24,36,48,54 Mbps
	Modulation	DSSS, OFDM, DBPSK, DQPSK, CCK, QAM16/64
	Antenna Interface	IPX/microstrip antenna

CHAPTER 8 OPTION INTRODUCTION

8.1 Using the RFID

RFID is the factory option of the printer. Below is the front view of the printer configured with RFID.



8.1.1 RFID Calibration

8.1.1.1 RFID Calibration Using the Control Panel

When printing the label for the first time or replacing a different label, so that the printer can accurately detect the chip position, reading power and writing power of the label, and successfully complete the subsequent printing operation, please perform RFID calibration, the specific steps are as follows:

- (1) Ensure that the printing setting parameters are correct, the upper and lower sensors are in the correct position, and the RFID tag is installed
- (2) Hold the **::** button Enter the menu, and after entering, it will be shown below.

```
Tally Dascom DL-830
Machine Information <
Setup
```

- (3) Hold the **||** button Until the "Test Mode" appears:

```
Tally Dascom DL-830
Test Mode          <
Setup
```

- (4) After entering the "Test Mode", find "Print Test"

```
Tally Dascom DL-830
Print Test         <
No
```

- (5) Hold the **||** button Until the "RFID calibration" appears, press the feed button to enter the configurable parameter state, then press the left or right button to set "No" to "Yes", and press the menu key twice to exit the parameter setting.

```
Tally Dascom DL-830
RFID calibration
Yes                <
```

(6) The printer performs RFID calibration

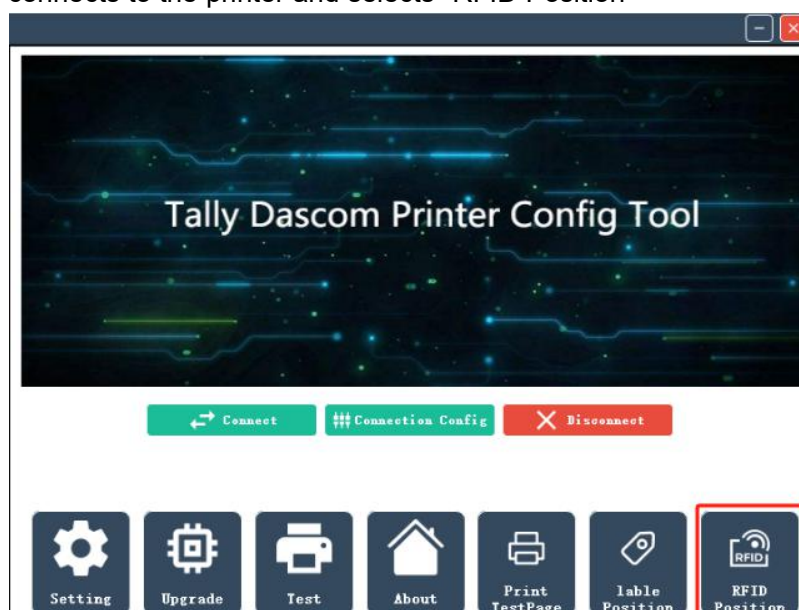
Tally Dascom DL-830
RFID calibrating...
5 of 53

8.1.1.2 RFID Calibration Using the Push-Button Method

The printer is in the shutdown state, press and hold the paper feed button at the same time, power on the printer, and when the buzzer rings twice, release the paper feed button.

8.1.1.3 RFID Calibration Using the Configuration Tool

Configuration Tool connects to the printer and selects "RFID Position"



8.1.2 Set the RFID Read and Write Power and Chip Location

With different specifications of RFID tags, it may be necessary to fine-tune the read and write power. There are two ways to read and write the power of RFID, one is through the operation control panel, and the other is through the use of Configuration Tool.

8.1.2.1 By the Operation control Panel

(1) Hold the **::** button Enter the menu, and after entering, it will be shown below.

Tally Dascom DL-830
Machine Information <
Setup

(2) Hold the **||** button Until the "RFID" appears:

Tally Dascom DL-830
RFID <
Setup

(3) After entering the "RFID":

Tally Dascom DL-830
RFID Function <
On

(4) After entering the "RFID Function". Chip position, read power, write power can be set

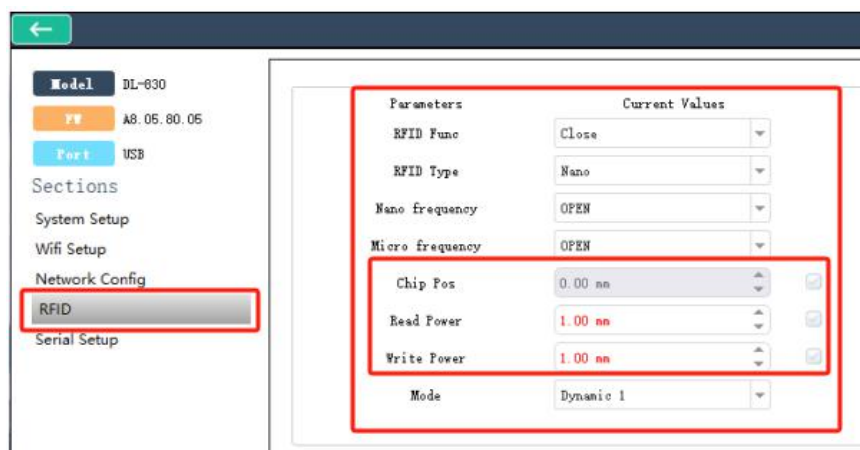
Tally Dascom DL-830
Read Power <
13.00.dBm

8.1.2.2 By the Configuration Tool

(1) Once the printer is connected, click "Settings".



(2) Select "RFID" in the menu bar on the left, you can set the chip position, read power, and write power.



8.1.3 Precautions

- (1) If you lift the print head during the operation, if there is data that needs to continue printing, and the "label automatic positioning" function is not turned on, you need to put the gap of the label on the tear-off paper position, and close the print head to continue printing.
- (2) When placing labels, adjust the paper pressure holder on the paper feeding channel to the appropriate position to avoid the label swinging left and right during the printing process, which increases the risk of EPC reading and writing failure

8.2 Using the Cutter

Cutter is the factory option of the printer. Below is the front view of the printer configured with cutter.



● Enable the Cutter in the Setup Menu

1. The printer originally works in Normal mode. Press **⏏** button once to enter Setup mode. Press **▶** button once to scroll forward getting the System Setup menu.

```
Tally Dascom DL-830
System Setup      <
Setup
```

2. Press **▶▶** button once to accept entering the System Setup menu. Keep pressing **▶** button to scroll to Cutter sub-menu. Press **▶▶** button once to accept entering Cutter setting. Press **▶** button once to scroll the value from Off to On.

```
Tally Dascom DL-830
Cutter            <
Off
```

3. Press **▶▶** button to accept saving the value of On for Cutter. Press **⏏** button twice to terminate Setup mode and return to Normal mode.

```
Tally Dascom DL-830
Print Ready
Setup
```

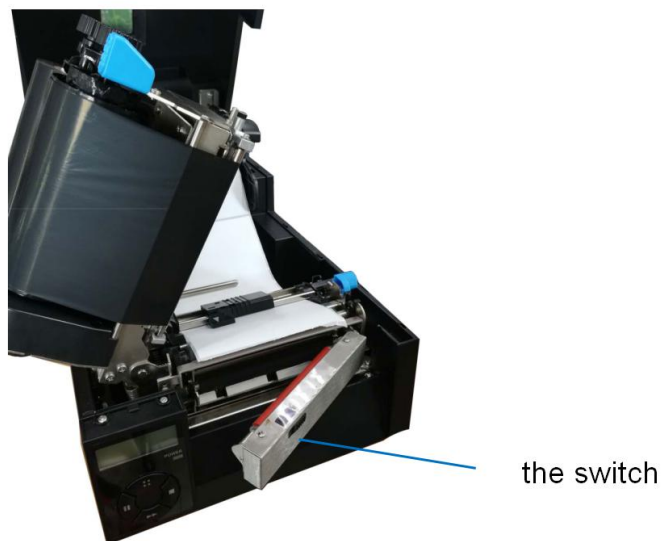
8.3 Using the Peeler

The Peeler is the factory-installed option for the Printer. Below is the front view of the printer configured with peeler.



- **Load continuous tag**

1. Load the continuous tag and press the switch on the swinging arm of the peeler to open it.



2. Pull out a piece of label paper and tear off the sticker, leaving the base paper.



3. Clamping the base paper without sticker with swinging arm. The base paper should be as straightening as possible to avoid paper jam.



4. Close the swinging arm and press down the release lever to lock the print head.



- **Enable the peeler in the setup menu**

1. The printer originally works in Normal mode. Press **⏏** button once to enter Setup mode. Press **▶** button once to scroll forward getting the System Setup menu.



```
Tally Dascom DL-830
System Setup      >
Setup
```

2. Press **▶▶** button once to accept entering the System Setup menu. Keep pressing **▶** button to scroll to Peeler sub-menu. Press **▶▶** button once to accept entering Peeler setting. Press **▶** button once to scroll the value from Off to On.



```
Tally Dascom DL-830
Peeler           >
Off
```

3. Press **▶▶** button to accept saving the value of On for Peeler. Press **⏏** button twice to terminate Setup mode and return to Normal mode.



```
Tally Dascom DL-830
Print Ready
Setup
```

CHAPTER 90 CODE PAGES

9.1 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	01	XON 17	! 33	1 49	A 65	Q 81	a 97	q 113
2	02	18	" 34	2 50	B 66	R 82	b 98	R 114
3	03	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	22	& 38	6 54	F 70	V 86	f 102	V 118
7	07	CAN 23	' 39	7 55	G 71	W 87	g 103	w 119
8	08	24	(40	8 56	H 72	X 88	h 104	x 120
9	HT 09	25	) 41	9 57	I 73	Y 89	i 105	y 121
A	LF 10	26	* 42	: 58	J 74	Z 90	j 106	Z 122
B	11	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	14	RS 30	. 46	> 62	N 78	^ 94	n 110	~ 126
F	15	31	/ 47	? 63	O 79	_ 95	o 111	SP 127

9.2 CP 437 USA

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

9.3 CP 850

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	á 160	 176	Ł 192	ð 208	Ó 224	– 240
1	ü 129	æ 145	í 161	 177	Ł 193	Ð 209	β 225	± 241
2	é 130	Æ 146	ó 162	 178	Ƨ 194	Ê 210	Ô 226	= 242
3	â 131	ô 147	ú 163	 179	Ƨ 195	Ë 211	Ò 227	¾ 243
4	ä 132	ö 148	ñ 164	Ƨ 180	– 196	È 212	õ 228	¶ 244
5	à 133	ò 149	Ñ 165	Á 181	† 197	ı 213	Õ 229	§ 245
6	å 134	û 150	ä 166	Â 182	ã 198	í 214	μ 230	÷ 246
7	ç 135	ù 151	ø 167	À 183	Ã 199	î 215	þ 231	˙ 247
8	ê 136	ÿ 152	¿ 168	© 184	Ł 200	ï 216	ƒ 232	° 248
9	ë 137	Ö 153	® 169	Ƨ 185	Ƨ 201	Ƨ 217	Ú 233	ˆ 249
A	è 138	Ü 154	¬ 170	 186	Ł 202	Ƨ 218	Û 234	· 250
B	ï 139	ø 155	½ 171	Ƨ 187	Ƨ 203	 219	Ü 235	¹ 251
C	î 140	£ 156	¼ 172	Ƨ 188	Ƨ 204	 220	Ý 236	³ 252
D	ì 141	Ø 157	ì 173	¢ 189	= 205	ı 221	Ý 237	² 253
E	Ä 142	× 158	« 174	¥ 190	Ƨ 206	ı 222	– 238	■ 254
F	Å 143	f 159	» 175	Ƨ 191	Ƨ 207	 223	’ 239	SP 255

9.4 CP 860 Portuguese

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	á 160	 176	L 192	ll 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	π 210	Γ 226	≥ 242
3	â 131	ô 147	ú 163	 179	† 195	ll 211	π 227	≤ 243
4	ã 132	õ 148	ñ 164	† 180	— 196	ℓ 212	Σ 228	∫ 244
5	à 133	ò 149	Ñ 165	‡ 181	† 197	F 213	σ 229	∫ 245
6	Á 134	Ú 150	ä 166	ll 182	ƒ 198	π 214	μ 230	÷ 246
7	ç 135	ù 151	ó 167	π 183	ll 199	ll 215	τ 231	≈ 247
8	ê 136	ì 152	ç 168	‡ 184	ll 200	≠ 216	Φ 232	° 248
9	Ê 137	Ö 153	Ö 169	ll 185	ff 201	∫ 217	Θ 233	• 249
A	è 138	Ü 154	¬ 170	ll 186	ll 202	Γ 218	Ω 234	· 250
B	Í 139	ç 155	½ 171	π 187	⌞ 203	 219	δ 235	√ 251
C	Ô 140	£ 156	¼ 172	ll 188	ll 204	 220	∞ 236	n 252
D	ì 141	Ù 157	ì 173	ll 189	= 205	ll 221	Φ 237	² 253
E	Ã 142	Pt 158	« 174	‡ 190	ll 206	ll 222	ε 238	■ 254
F	Å 143	Ó 159	» 175	† 191	± 207	 223	∩ 239	SP 255

9.5 CP 863 French

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	Ì 160	⌘ 176	Ł 192	⌚ 208	α 224	≡ 240
1	Ü 129	È 145	´ 161	⌘ 177	Ł 193	ƒ 209	β 225	± 241
2	é 130	Ê 146	ó 162	⌘ 178	ƒ 194	π 210	Γ 226	≥ 242
3	â 131	ô 147	ú 163	⌘ 179	ƒ 195	⌚ 211	Π 227	≤ 243
4	Â 132	Ë 148	¨ 164	⌘ 180	— 196	ƒ 212	Σ 228	∫ 244
5	à 133	Ï 149	¸ 165	ƒ 181	† 197	ƒ 213	σ 229	∫ 245
6	¶ 134	û 150	³ 166	⌘ 182	ƒ 198	π 214	μ 230	÷ 246
7	ç 135	ù 151	— 167	π 183	⌘ 199	⌘ 215	τ 231	≈ 247
8	ê 136	α 152	î 168	ƒ 184	⌚ 200	≠ 216	Φ 232	° 248
9	ë 137	Ô 153	ƒ 169	⌘ 185	ƒ 201	⌘ 217	Θ 233	• 249
A	è 138	Ü 154	¬ 170	⌘ 186	⌚ 202	ƒ 218	Ω 234	· 250
B	ï 139	ç 155	½ 171	⌘ 187	ƒ 203	⌘ 219	δ 235	√ 251
C	î 140	£ 156	¼ 172	⌘ 188	⌘ 204	⌘ 220	∞ 236	ⁿ 252
D	= 141	Ù 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

9.6 CP 865 Nordic

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	Ƨ 194	π 210	Γ 226	≥ 242
3	â 131	ô 147	ú 163	 179	Ƨ 195	⌌ 211	π 227	≤ 243
4	ä 132	ö 148	ñ 164	Ƨ 180	— 196	⌌ 212	Σ 228	∫ 244
5	à 133	ò 149	Ñ 165	Ƨ 181	† 197	Ƒ 213	σ 229	∫ 245
6	å 134	û 150	ä 166	⌌ 182	Ƨ 198	π 214	μ 230	÷ 246
7	ç 135	ù 151	ó 167	π 183	⌌ 199	⌌ 215	τ 231	≈ 247
8	ê 136	ÿ 152	ı 168	Ƨ 184	⌌ 200	≠ 216	Φ 232	° 248
9	ë 137	Ö 153	Ƨ 169	⌌ 185	Ƒ 201	⌐ 217	Θ 233	• 249
A	è 138	Ü 154	Ƨ 170	⌌ 186	⌌ 202	Ƨ 218	Ω 234	• 250
B	ï 139	ø 155	½ 171	Ƨ 187	⌌ 203	 219	δ 235	√ 251
C	î 140	£ 156	¼ 172	⌌ 188	⌌ 204	 220	∞ 236	n 252
D	ì 141	Ø 157	ı 173	⌌ 189	= 205	 221	Φ 237	² 253
E	Ä 142	Pt 158	« 174	Ƨ 190	⌌ 206	 222	ε 238	■ 254
F	Å 143	f 159	¤ 175	Ƨ 191	⌌ 207	 223	∩ 239	SP 255

9.7 CP 858 European

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	á 160	 176	Ł 192	ð 208	Ó 224	– 240
1	ü 129	æ 145	í 161	 177	Ł 193	Ð 209	β 225	± 241
2	é 130	Æ 146	ó 162	 178	Ƨ 194	Ê 210	Ô 226	= 242
3	â 131	ô 147	ú 163	 179	Ƨ 195	Ë 211	Ò 227	¾ 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	Õ 229	§ 245
6	å 134	û 150	ä 166	Â 182	ã 198	í 214	μ 230	÷ 246
7	ç 135	ù 151	ó 167	À 183	Ã 199	î 215	þ 231	˙ 247
8	ê 136	ÿ 152	ç 168	© 184	Ł 200	ï 216	þ 232	° 248
9	ë 137	Ö 153	® 169	¶ 185	Ƨ 201	Ƨ 217	Ú 233	ˆ 249
A	è 138	Ü 154	¬ 170	 186	Ł 202	Ƨ 218	Û 234	· 250
B	ï 139	ø 155	½ 171	¶ 187	Ƨ 203	 219	Ü 235	¹ 251
C	î 140	£ 156	¼ 172	¶ 188	Ƨ 204	 220	Ý 236	³ 252
D	ì 141	Ø 157	ì 173	¢ 189	= 205	ì 221	Ý 237	² 253
E	Ä 142	× 158	« 174	¥ 190	Ƨ 206	ì 222	– 238	■ 254
F	Å 143	f 159	» 175	Ƨ 191	Ƨ 207	 223	’ 239	SP 255

9.8 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	П 210	т 226	Ё 242
3	Г 131	У 147	г 163	 179	Т 195	Л 211	у 227	е 243
4	Д 132	Ф 148	д 164	┌ 180	— 196	Е 212	ф 228	ї 244
5	Е 133	Х 149	е 165	┐ 181	┌ 197	Р 213	х 229	ї 245
6	Ж 134	Ц 150	ж 166	 182	┐ 198	П 214	ц 230	Ў 246
7	З 135	Ч 151	з 167	П 183	 199	 215	ч 231	Ў 247
8	И 136	Ш 152	и 168	┐ 184	Л 200	┐ 216	ш 232	° 248
9	Й 137	Щ 153	й 169	 185	Р 201	┌ 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	┐ 187	Т 203	 219	ы 235	√ 251
C	М 140	Ь 156	м 172	┐ 188	┐ 204	 220	ь 236	№ 252
D	Н 141	Э 157	н 173	┐ 189	= 205	 221	э 237	¤ 253
E	О 142	Ю 158	о 174	┐ 190	 206	 222	ю 238	■ 254
F	П 143	Я 159	п 175	┐ 191	┐ 207	 223	я 239	SP 255

9.9 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	Ƨ 194	Ǿ 210	Ô 226	˙ 242
3	â 131	ô 147	ú 163	 179	Ƨ 195	Ě 211	Ň 227	˘ 243
4	ä 132	ö 148	À 164	† 180	- 196	ď 212	ń 228	˘ 244
5	û 133	Ľ 149	ą 165	Á 181	† 197	Ň 213	ň 229	§ 245
6	č 134	Ĵ 150	ž 166	Â 182	Ǻ 198	í 214	Š 230	÷ 246
7	ç 135	Š 151	ž 167	Ě 183	ǻ 199	î 215	š 231	˙ 247
8	ł 136	ś 152	Ę 168	Ş 184	Ł 200	ě 216	Ř 232	° 248
9	ë 137	Ö 153	ę 169	Ǻ 185	Ƨ 201	Ĵ 217	Ú 233	˘ 249
A	Ő 138	Ü 154	SP 170	 186	Ł 202	Ƨ 218	ř 234	• 250
B	õ 139	Ť 155	ž 171	Ǻ 187	Ƨ 203	 219	Ů 235	ũ 251
C	î 140	ť 156	Č 172	Ǻ 188	Ł 204	 220	ý 236	Ř 252
D	Ž 141	ł 157	ś 173	Ž 189	= 205	Ƨ 221	Ý 237	ř 253
E	Ä 142	× 158	« 174	Ž 190	Ł 206	Ů 222	ţ 238	■ 254
F	Ć 143	Č 159	» 175	Ƨ 191	α 207	 223	' 239	SP 255

9.10 CP 720 Arabic

HEX	8	9	A	B	C	D	E	F
0	SP 128	SP 144	ب 160	176	ل 192	208	ض 224	240
1	SP 129	145	ة 161	177	ل 193	209	ط 225	241
2	é 130	146	ث 162	178	ت 194	210	ظ 226	242
3	a 131	ô 147	ث 163	179	ت 195	211	ع 227	243
4	SP 132	148	ج 164	180	ـ 196	212	غ 228	244
5	à 133	- 149	ح 165	181	ت 197	ف 213	ف 229	245
6	SP 134	û 150	خ 166	182	ف 198	214	م 230	246
7	ç 135	ù 151	د 167	183	ف 199	215	ق 231	247
8	ê 136	ء 152	ذ 168	184	200	216	ك 232	248
9	ë 137	آ 153	ر 169	185	ف 201	217	ل 233	249
A	è 138	أ 154	ز 170	186	202	218	م 234	250
B	ï 139	ؤ 155	س 171	187	203	219	ن 235	251
C	î 140	£ 156	ش 172	188	204	220	ه 236	252
D	SP 141	إ 157	ص 173	189	205	221	و 237	2 253
E	SP 142	ئ 158	« 174	190	206	222	ى 238	254
F	SP 143	أ 159	» 175	191	SP 207	223	ي 239	SP 255

CHAPTER 10 COMMAND CODES

10.1 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
^BM	MSI Bar Code
^BO	Aztec Bar Code Parameters
^BP	Plessey Bar Code
^BQ	QR Code Bar Code
^BR	GS1 Databar (formerly Reduced Space Symbolology)
^BS	UPC/EAN Extensions
^BT	TLC39 Bar Code
^BU	UPC-A Bar Code
^BX	Data Matrix Bar Code
^BY	Bar Code Field Default

Code	Description
^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
^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

Code	Description
^FW	Field Orientation
^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
^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

Code	Description
^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
^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

10.2 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

10.3 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.
SET PEEL	This setting is used to enable/disable the self-peeling function. The default setting for this function is off.
SET CUTTER	This setting activates or deactivates the cutter and defines how many printed labels is to be cut at one time.
SET PARTIAL_CUTTER	This setting activates or deactivates the cutter and defines how many printed labels is to be cut at one time.
SET TEAR	This command is used to enable/disable feeding of labels to gap/black mark position for tearing off.
SET RIBBON	This setting is used to enable/disable ribbon sensor detection.
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.
PUTPCX	This command prints PCX format images.
KILL	This command deletes a file in the printer memory.
DOWNLOAD	"DOWNLOAD" is a header of the file that is to be saved in the printer's memory.

FCC STATEMENT

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

NOTE: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC 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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