

User Manual DL-210 Label & Barcode Printer



Important Safety Instructions (English)

Read the following instructions thoroughly before starting up your printer.

- The device and mains-socket must all times be easily accessible.
- Never carry out maintenance or repair work yourself. Always contact a qualified service technician.
- Keep this user guide 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 voltage.
- Always disconnect the printer from the power before opening the device to perform maintenance work or remedy errors.
- Do not expose the printer to high temperatures, direct sunlight or dust.
- Keep all liquids away from the printer.
- Protect the printer from shock, impact and vibration.
- Make sure that both the printer and the computer are switched off before connecting the data cable.
- The print head will become very hot during printing; avoid contact with the print head after printing has finished.
- Do not perform any operation or action in any way other than those provided in this manual. When in doubt, contact your dealer or your customer support.

Wichtige Sicherheitshinweise (German)

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

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

Consignes importantes de sécurité (French)

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

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

Indicazioni di sicurezza importanti (Italian)

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

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

Instrucciones de seguridad importantes (Spanish)

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

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

Правила по технике безопасности. (Russian)

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

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

Instruções Importantes sobre Segurança (Portuguese)

Leia as instruções de segurança antes de usar a impressora.

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

• Não faça nenhuma operação ou ação além das recomendadas neste manual. Em caso de dúvida, contate seu revendedor ou companhia de serviço.

Önemli Güvenlik Talimatları (Turkish)

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

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

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About This Manual

This manual provides information to operators of the DL-210 to describe basic operations to enable safe and correct use of the printer.

Symbols Description

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



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

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

Related Software and Documents

Related Software and Documents

Software/document name	Description
DL-210 User Manual	This manual.
DL-210 Maintenance Manual	This manual provides developer/ engineers with additional technical information.

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1 INTRODUCTION

The Dascom[®] DL-210 model is the best value in a desktop thermal printer. The DL-210 printer provides thermal transfer and direct thermal printing at speeds up to 6 ips (inches per second) at a 203 dpi (dots per inch) print density.

1.1 Features

• Easy to switch printer language between ZPL, EPL and TSC programming and label formats.

• Easy operation. With an open structure users can easily change paper roll and ribbon.

• Large media compartment. Ribbon as long as 300m and paper roll of Max. OD ϕ 127mm can be used. Therefore users can change the ribbon and paper roll less often so as to work more efficiently.

•Wide range of connectivity. The USB interface is standard interface. Serial/parallel/Ethernet/Wi-Fi/ Bluetooth are optional interfaces. Various interface choices suit all needs.

The DL-210 printers offer these basic printer options:

- Auto cutter.
- •Peeler.

This user guide provides all the information you need to operate your printer on a daily basis.

1

1.2 Printer specifications

Print	Print method	Direct thermal/Thermal transfer printing
Parameter	Print width	108mm
	Print speed	6IPS
	Print head	Dot pitch: 0.125mm
	Resolution	203DPIx203DPI
	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
	User defined	Liser-defined fonts can be downloaded into ELASH_SDRAM
	User-defined	
Fonts	Code Pages	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 (Monochrome PCX, BMP) can be downloaded into SDRAM.
		7PI ·
	1D	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
Barcodes		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; FPL:
		PDF417;Maxicode;QR Code; Data Matrix;
	ID	φ25.4mm
Dibbon	OD	ф68mm
RIDDON	Length	300m
	Width	33~110mm
		Thickness 0.06~0.18mm
		Width 25~118mm
	Media Spec.	Length 8.9~400mm
Media		Max. OD ∮127mm
Handling		Min. ID
	Media cut	Tear bar, auto-cutter, peeler
	Media type	Roll paper, fold paper (continuous, non-continuous, continuous tag, wrist-band, normal media and all sorts of receipts)
Control Panel	Кеу	One key: Feed
	LED indicator	Three LEDs: Power, Error, Status (Paper out/Ribbon out)
Detect	Standard sensors	Black mark sensor, Media sensor, Ribbon sensor, Machinery sensor
Function	Optional kit sensor	Label taken sensor
Emulation	Zebra, EPSON	ZPL, EPL, TSPL

		External power adapter
Power Supply	Input	AC 100V-240V, 50-60Hz
	Output	24V DC, 3A
	SDRAM	8MB
wemory	FLASH	8MB
	Standard	USB (2.0 Full-Speed)
		Serial (RS-232, DB25)
Interfece		Parallel Centronics (IEEE-1284)
Interface	Optional	Ethernet: 10M/100M
		Wi-Fi (802.11b/g)
		Bluetooth: BT 3.0/4.0+EDR, SPP
Software		Driver (Windows 32bit/64bit), Bartender, SDK system, setup tool
	Dimensions	230(W)×290(D)×176(H)mm
	Casing Color	Black
Dhysical Spac	Weight	Approx 3kg
Thysical Spec.	Operating	5~40°C/20~95%RH (non-condensing)
	condition	
	Storage condition	-20∼60°C/≤95%RH (non-condensing)
Safaty	Safety	UL, CE, FCC, CCC, EMC
Standard	EMC	Class B
Standard	Certificate	CCC, CE, FCC, UL, Energy star
	Cuttor	Media width: 25mm~118mm
Option	Cutter	Media thickness : 0.06mm~0.18mm
		Media width: 25.4mm-100mm
	Peeler	Media thickness : 0.06mm~0.18mm
Reliability	TPH lifetime	150km (Condition: use specific thermal roll paper and the print rate is 12%)

1.3 Print Media Types



Important •Dascom strongly recommends the use of Dascom-brand supplies for continuous high-quality printing.

Your printer can use various types of media:

• Standard media—Most standard (non-continuous) media uses an adhesive backing that sticks individual labels or a continuous length of labels to a liner.

• Continuous roll media—Most continuous roll media is direct thermal media (similar to FAX paper) and is used for receipt or ticket style printing.

• Tag stock—Tags are usually made from a heavy paper (up to 0.0075in./0.19mm thick). Tag stock does not have adhesive or a liner, and it is typically perforated between tags.

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

The printer typically uses roll media, but you can use fan-fold or other continuous media too. Use the correct media for the type of printing you require. You must use direct thermal media. When printing without a ribbon, you must use direct thermal media. When using ribbon, you must use thermal transfer media.

Media Type	How it looks	Description
Non-Continuous Roll Media		Roll media is wound on a core that can be 1 to 1.5 in. (25.4 to 38.1 mm) in diameter. Labels have adhesive backing that sticks them to a liner and
		 they are separated by gaps, holes, notches, or black marks. Tags are separated by perforations. Individual labels are separated by one or more of the following methods: Web media separates labels by gaps, holes, or notches
		Black mark media uses pre-printed black marks on the back side of the media to indicate label separations
		• Perforated media has perforations that allow the labels or tags to be separated from each other easily. The media may also have black marks or other separations between labels or tags.
Non-Continuous Fanfold Media		Fan-Fold media is folded in a zigzag pattern. Fanfold media can have the same label separations as non-continuous roll media. The separations would fall on or near the folds.
Continuous Roll		Roll media is wound on a core that can be 1 to 1.5
Media		in. (25.4 to 38.1 mm) in diameter. Continuous roll media does not have gaps, holes, notches, or black marks to indicate label separations. This allows the image to be printed anywhere on the label. A cutter can be used to cut apart individual labels. With continuous media, use the transmissive (gap) sensor so the printer can detect when the media runs out.

1.4 External Dimension and Weight

- Width: Approximately 230 mm
- Depth: Approximately 290 mm
- Height: Approximately 179.5 mm
- Mass: Approx. 3 kg (excluding power adapter)



Front View



Back view



Side view

1.5 Unpacking

When you receive the printer, please check for possible shipping damage:

- 1. Inspect the outside of both the box and the printer for possible damage.
- 2. Open the top cover of the printer to see if the media compartments are in order.

If you discover shipping damage upon inspection:

- Immediately notify the shipping company and file a damage report.
- Keep all packaging material for shipping company inspection.
- Notify your authorized Tally Dascom reseller.





The package contents vary with different customized order requirements.

Package Contents:

-			
	Printer	1 unit	
	Ribbon rewind paper core	1 piece	
	Ribbon sample	1 piece	Wax
	Ribbon spindle	2 pieces	
	Media sample	1 piece	Thermal transfer
	Media fixer	2 pieces	
Standard	Media spindle	1 piece	
	Power adapter	1 piece	EU/UK/US
	Power cord	1 piece	
	Graphic installation guide	1 piece	
		1 piece	Including user guide, Driver, setup
	CD-ROM		tool, graphic installation guide
	Peeler	1 set	
Optional	Cutter	1 set	

1.6 Product Configuration

Interface Types

Optional Interface (Serial/ Parallel/ Ethernet/ Wi-Fi/ Bluetooth)



- USB interface (USB2.0, Full speed)
- Serial interface: Serial port (RS-232, DB25)
- Parallel interface: Bidirectional parallel port (IEEE1284)
- LAN interface: Ethernet (10Base-T, 100Base-TX)
- Wireless LAN interface: Wi-Fi (802.11b/g)
- Bluetooth interface (BT 3.0/4.0+EDR, SPP)

Madal	Interfaces			Power Cord	Рареі	r Cut	Sensor			
woder	USB	PAR	SER	ETH	Wi-Fi	Bluetooth	EN/UK/EU	Cutter	Tear Bar	Black Mark
DL-210	\checkmark	0	0	0	0	0	\checkmark	0	\checkmark	\checkmark

Remarks: " $\sqrt{}$ " indicates standard configuration, "O" indicates optional configuration.

PAR=Parallel interface; SER= Serial interface; ETH=Ethernet interface.

1.7 Printer Components

Printer components and their functions are shown as below:



USB interface

Component Name		Function	
Media window		Monitor the media status via this window	
Top cover		Open this cover for loading ribbon and media	
	Power LED	Indicate the power status	
	Status LED	Indicate the status of media, ribbon and label-taken	
Control Panel	Error LED	Indicate print head temperature and Print head mechanism open or not	
	Feed Button	Press this key for feeding media	
Power socket		Connect power cord to the printer	
Power switch		For switching on/off printer	
USB interface		Connect USB interface cable from host	
Optional interface (Serial/ Parallel/ Ethernet/ Wi-Fi/ Bluetooth)		Connect optional interface cable from host (interface type is on request)	



Wi-Fi and Bluetooth are options; they cannot be used at the same time.



Component Name		Function
Print Head	Ribbon Holder	For placing ribbon, lower seat for new ribbon, top seat for used ribbon.
Mechanism	Print Head	Heat the ribbon and transfer imaging components to the media
Ribbon Pick-u	ıp Holder	Turn the adjustor for stretching ribbon
Media Holder	r	For placing media
Print Head Lo	cking Button	For closing or opening the print head mechanism
Tear Bar		For tearing the media
Rotatable Board		Disassemble the rotatable board for installing optional kit: peeler or
		cutter

Black Mark Sensor



Media Guide

Media Guide Adjuster

Platen Roller

Component Name	Function
Media Guide	Align the media in the center of media path
Media Guide Adjustor	Adjust the space between the two media guides
Black Mark Sensor	For detecting black mark. The sensor position can be adjusted according to the black mark position.
Platen Roller	For feeding paper



Component Name	Function		
Media Spindle	Insert it into media core for supporting media		
Media Fixer	For fixing media (as the above figure shown)		
Ribbon Spindle	Install it in ribbon holder for supporting ribbon or ribbon rewind pipe		
Ribbon Rewind Paper Core	Stick the used end of ribbon to the pipe, rewind ribbon while the pipe is turning		

1.8 Control Panel

1.8.1 LEDs Behavior

	Power	Status	Error	Buzzer	Printer behavior	
POWER	On	Off	Off	1 beep	Standby.	
	х	Х	On	Х	Print head mechanism is opened.	
	x	On	Off	1 beep	Paper end.	
STATUS	х	Slow blink	Off	1 beep	Ribbon end.	
FEED	х	Х	Fast blink for 3 times	3 beep	Sign is not detected.	
	х	х	Slow blink for 1 time, fast blink for 3 times	1 long beep, 3 short beep	Cutter error.	
	Off	On	Off	2 beep	Enter FW upgrade mode.	
	х	Fast blink	Off	х	Label remains in peeler.	
	Off	Х	х	Х	Print pause (data is not completely printed)	
	x	x	Fast blink	х	Print head is over-heated.	

"X" represents the current status can be regardless, the printer behavior can be superimposed on each other, such as when ribbon error occurs, "ribbon end" and "data is not completely printed" may arise.

1.8.2 Feed Button Operation

- Below specified functions can be implemented when the printer is switched on.
 - Holding the Feed button when switch on the printer, Self Test will be conducted with 1 beep indication.
 - 2 Holding the Feed button when switch on the printer, Auto Label Calibration will be implemented with 2 beeps indication.
 - 3. Holding the Feed button when switch on the printer, Hexadecimal Mode will be entered with 3 beeps indication.
 - 4. Holding the Feed button when switch on the printer, Factory Default Values will be reset with 4 beeps indication.
 - 5. Lift up the top cover and turn up the print head mechanism. Holding the Feed button when switch on the printer for 1s, Upgrade Mode will be entered with 2 beeps indication.

- Below paper feed behavior can be implemented when the printer is switched on.
 - If Continuous Paper is set, the printer will feed the paper for 1 line (30 steps) under standby mode when pressing Feed button.
 - If Continuous Paper is set, the printer will feed the paper continuously under standby mode when holding Feed button.
 - 3. If Label Paper is set, the printer will feed 1 pcs of label under standby mode when pressing Feed button.
 - 4、 If Label Paper is set, the printer will not feed the paper under standby mode when holding Feed button.

2 SETUP

2.1 Flow of Setup

This chapter consists of the following sections along with the setup flow of the product and peripherals.



2.2 Placing the Printer

The printer must be installed horizontally. Place the printer on a solid, flat, stable surface; ensure the printer is placed in a stable position and there is easy access for users to the control panel and roll paper holder. Also ensure there is enough space for sufficient ventilation and for the printout.

When selecting the placement position, be aware of the following advice:

2 Never place the printer near to any flammable gas or explosive substances.

3 Do not expose the printer to direct sunlight. If you cannot avoid placing the printer near a window, protect it from the sunlight with a curtain.

4 When connecting a computer to the printer, make sure the maximum recommended cable length is not exceeded.

5 Ensure sufficient distance between the printer and any heating devices or radiators.

6 Avoid exposing the printer to extreme temperature or air humidity fluctuations. Avoid exposure to dusty environments.

• It is recommended the printer is installed in a position which reduces noise exposure to the work place during printing.

2.3 Attaching Power

Checking the voltage of the power adapter



Before you connect the power adapter to the power socket check if the voltage is correct. If you connect the power adapter to power with incorrect voltage this may result in electrical damage to adapter and printer.

- 1. Make sure the printer and the computer are powered off.
- 2. Connect the power cord to the power adapter.
- 3. Connect the power adapter to the power supply interface at the rear of the printer.

4. Ensure the power cord is securely connected. Connect the power cord plug to a mains socket on the wall.



1) Please only use the power adapter recommended by supplier or equivalent products;

2) When disconnecting the AC adapter plug, handheld plug connector housing, avoid pulling on the cable;

0

3) Avoid placing power adapter nearby a heating device, otherwise the cable may melt, causing fire and shock;

4) If you do not use the printer in a long time, disconnect the power supply of printer power adapter.

2.4 Calibrate Sensor

Gap sensor and reflective sensor should be calibrated separately.

First, please open the setup tool, enter "Printer Setup", choose paper sensor: gap sensor by default. You could switch to reflective sensor according to your need.

Tally	Printer Setup					
DASCON	Page Mode:	~	Print Density:		~	
Choose Interface	Print Media:	~	Printer Language:	~		
Update Firmware	Print Method:	~	Peeler:		~	
Command Test	Print Speed:	~	Emulation:		~	
	Cut Mode:	~	Paper Out Detection:	~		
	Print Position Detection:	~	Auto Calibrate		~	
	Top Form Sensing:	~	Paper sensor selection:		~	
Printer Series	Print Home Offset	mm	Cutting Positi Offs	Gap sensor		
DL-310	Black Mark AD value:		A	Calib	rate labe	
nterface	Get Printer Setting	s Print Self-te	st Reset All S	Settings Send Set		
LAN						
Application Language		_				
O Simplified Chinese	English		Help	E	Exit	

2.4.1 Calibrate Gap Sensor

(1) Make sure gap sensor is selected through the setup tool.

(2) Lift the top cover to expose the media holder and the print head mechanism.

(3) Move around the sensor support so as to align its triangle with another triangle on the center housing. As it is shown below:



2.4.2 Calibrate Reflective Sensor

- (1) Select Reflective Sensor in the setup tool.
- (2) Lift the top cover to expose the media holder and the print head mechanism.
- (3) Align the black mark sign with the black mark sensor.



(4) Put the media between the media compartment and the tear bar. And then close the mechanism and the top cover.

2.5 Loading Roll Media

- Must use thermal media in case of no ribbon in the printer. When using ribbon,
- 0
- you have to use thermal transfer media.
- Tips for avoiding media jam: Make sure the media is aligned in the center of the printer and the media fixers are firmly pressed against both sides of the roll.

Before printing, it is necessary to check whether the media you use is appropriate or not. You can scratch the media surface, if the scratch turns black, it is direct thermal media. In this case, you do not need to load ribbon. Otherwise, it is thermal transfer media, you have to use a ribbon.





(6) Lead the media under the print head mechanism through the media guides.(7) Control the blue media guide adjuster so as to align the media in the central path.(8) Lead the media over the platen roller and through the tear bar.



(9) Put the print head mechanism down and press down firmly until you hear a snap.(10) Close the top cover and turn on the printer or press the "FEED" button if the printer is already on.

(11) In order to make sure the data is printed within the label area, it is necessary to execute Label Calibration: Hold down Feed Button and switch on printer simultaneously, release Feed Button after the buzzer beeps twice. Then the label will be positioned automatically.

Label calibration should be executed in the following situations:

• Use printer for printing label for the first time.



- After replacing different size of labels.
- If the printer skips labels
- If the printer feeds blank labels.
- After refilling with new roll of labels.

2.6 Loading Transfer Ribbon

Transfer ribbons come in several varieties and in some cases colors to match your application needs. The media and ribbon types should be matched to provide you with optimal print results. Always use ribbon that is wider than the media to protect the printhead from wear.



For direct thermal printing, do not load ribbon in the printer.



Do not use ribbon while using direct thermal media. Otherwise, barcode and graph will be distorted.





(9) Turn the wheel of the print head mechanism to ensure the ribbon is tightly wound.
(10) Close the sensor support.
(11) Press down the print head mechanism on both sides firmly until you hear a snap.
2.7 Connecting to Computer



NOTE!

Be sure to install the driver before connecting the printer to the host computer.

Before installing, disconnect the Power Unit from the printer (as well as turning the power switch off). Even when the power switch is off, voltage is still present at some points on the circuit board. Changing components while the power unit is connected can cause damage to the interface board and the printer.



Component Name	Function
Power socket	Connect power cord to the printer
Power switch	For switching on/off printer
USB interface	Connect USB interface cable from host
Optional interface (Serial/ Parallel/ Ethernet/ Wi-Fi)	Connect optional interface cable from host (interface type is on request)

Connection cable must comply with the following requirements:

Connection Type	Specifications
USB	USB 1.1/2.0 compatible
Serial	RS232
Parallel	IEEE 1284.4
Ethernet	10 Base-T/100 Base-TX compatible

2.7.1 Connecting USB interface





2.7.2 Connecting serial interface



8

WARNING!

Be sure to turn off the power supply for both the printer and host computer before connecting the cables.

- **1.** Insert the interface cable connector firmly into the interface connector on the connector panel.
- 2. When using the connectors equipped with screws, tighten them to secure the connectors firmly.



3. When using interface cables equipped with a grounding line, attach the ground line to the screw hole marked "FG" on the printer.

4. Connect the other end of the interface cable to the host computer.

2.7.3 Connecting parallel interface



- 1. Insert the interface cable connector firmly into the interface connector on the connector panel.
- 2. Press down the clips on either side of the connector to lock it in place.
- **3.** When using interface cables equipped with a grounding line, attach the ground line to the screw hole marked "FG" on the printer.
- 4. Connect the other end of the interface cable to the host computer.

2.7.4 Connecting Ethernet interface



- Before installation, make you have installed the driver and the driver for Ethernet interface (see Installing Driver on page 17)
- 6
- When LAN cables are installed outdoors, make sure devices without proper surge protection are cushioned by being connected through devices that do have surge protection.

Otherwise, the devices can be damaged by lightning.

- Never attempt to connect the customer display cable, drawer kick-out cable, or the standard telephone line cable to the 10/100BASE-T LAN connector.
- **1.** Connect the printer to a network by a LAN cable via a switch.
- 2. Connect a 10/100BASE-T cable to the 10/100BASE-T LAN connector by pressing firmly until the connector clicks into place.

2.7.5 Connecting Wlan Interface



3 NETWORK SETUP AND CONFIGURATION

3.1 Installing Driver



Switch off the printer before running the printer driver setup.

Your printer CD-ROM comes with Windows Driver. Go to the Driver folder and run the installer. Please check the website <u>www.dascom.com</u> for the latest version of driver.

(1) Click "Next".



(3) Select the installation path to the Driver.

Installation Please select the dire	Directory Story to unpack the software.	SEAGULL
The software will be u either type in the new	npacked to the directory listed below. To unpa path or click Browse to select a different directo	ck to a different directory, ory.
nstallation Directory	C:\1 allyDascom	Browse
	Space required on drive:	40.4 MB
	Space available on selected drive:	22.7 GB
	C Park No	the Canad

(3) Click "Finish".



(4) Click "Yes".

Do yo chang	u want to allow es to this comp	the following program to make uter?
	Program name: Verified publisher: File origin:	Seagull Driver Wizard Seagull Scientific, Inc Hard drive on this computer
Show deta	ls	Yes No
Show deta	ls	Yes No

(5) Click "Next".

Seagull Driver Wizard	X
	Welcome to the Seagull Driver Wizard
	This wizard helps you install and remove printer drivers.
	What would you like to do?
	Install printer drivers
	© Remove printer drivers
	< Back Next > Cancel

(6) Choose **Other** as insllation port.

Connect Printer			D
The printer should be connected before of	onunuing Instalia	uon.	S
How is this printer going to be attached?			
O USB			
Network (Ethernet or WiFi)			
Other (such as Parallel or Serial)			
Instructions: 1. Connect your printer to the PC. 2. Turn the printer on. 3. Press Next to continue.			*
			Ŧ
			Į

(7) Choose printer model "Tally Dascom DL-210Z" or "Tally Dascom DL-210E", and the installation path. Then click "Next".

Specify Printer Model	T
The manufacturer and model determine which printer	driver to use.
Specify the model of your printer.	
Printer Model	*
Tally Dascom 7206	
Tally Dascom 7206-300	
Tally Dascom 7206-300X	
Tally Dascom 7206X	E
Tally Dascom DL-2102	-
Source: C:\TallyDascom	Browse
Version: 7.3.4 M-0 (01/28/2014)	
< Bac	k Next > Cancel

(8) Click "Next".

A port is use	d to connect a printer to the computer.	
pecify the port of listed below,	that you are using. If you are connecting using TCP/IP or anothe create a new port.	er port type
Port	Туре	•
FILE:	Local Port	
USB001	Virtual printer port for USB	-
USB002	Virtual printer port for USB	
SHRFAX:	Fax Monitor Port	E
TPVM:	ThinPrint Print Port for VMware	
XPSPort:	Local Port	*
	Create Port Configur	e Port

(9) Enter printer name. Click "Next".

Specify Printer Names are us	Name sed to identify the printer on this computer and on the network.	
Enter a name for	this printer.	
Printer name:	Tally Dascom DL-210Z	
Use this printe Specify whether o	r as the default printer or not you want to share this printer with other network users. When	
Use this printe Specify whether o sharing, you must O Do not share t	er as the default printer or not you want to share this printer with other network users. When t provide a share name. this printer	
Use this printe Specify whether of sharing, you must O Do not share t Share name:	er as the default printer or not you want to share this printer with other network users. When t provide a share name. this printer Tally_Dascom_DL-210Z	
Use this printe Specify whether of sharing, you must O Do not share t Share name:	er as the default printer or not you want to share this printer with other network users. When t provide a share name. this printer Tally_Dascom_DL-210Z	

(10) Click "Finish".

Seagull Driver Wizard		X
	Completing	the Seagull Driver Wizard
	A new printer will b	be installed using the following settings:
	Name:	Tally Dascom DL-210Z
9 6 6 6 6 6 6 7 4	Share name:	<not shared=""></not>
	Port:	USB001
	Default:	No
	Manufacturer:	Tally Dascom
	Model:	Tally Dascom DL-210Z
	Version:	7.3.4 M-0 (01/28/2014)
	To begin the drive	r installation process, click Finish.
	Γ	< Back Finish Cancel

(11) Then the driver is installed successfully.

Seagull Driver Wizard Completed Successfully The following operations were completed successfully:	
Installed printer 'Tally Dascom DL-210Z'.	*
Install Another Printer	lose

3.2 Installing Setup Tool

Your printer CD-ROM comes with Tally Dascom Setup Tool. Go to the folder and run the installer. Please check the website <u>www.dascom.com</u> for the latest version of setup tool.

(1) Choose setup language.



(2) Click next.



(3) Select the installation path to the tool.

Where should Setup place the program	n's shortcuts?	1
where should becap place the program		G
Setup will create the program	's shortcuts in the following	Start Menu folder.
To continue, click Next. If you would l	ike to select a different folde	er, click Browse.
SetupTool		Browse
🔲 Don't create a Start Menu folder		
		241 M 24

(4) Click "Finish".

Select Additional Tasks			
Which additional tasks should be pe	rformed?		Ċ
Select the additional tasks you wou then click Next.	ld like Setup to perform	while installing Se	tupTool,
Additional icons:			
🗹 Create a desktop icon			
			(- ·

(5) Click "Install".

etup - Setup I ool	
Ready to Install	
Setup is now ready to begin installing SetupTool on your computer.	
Click Install to continue with the installation, or click Back if you want to r change any settings.	review or
Start Menu folder: SetupTool	*
Additional tasks:	
Additional icons:	
Create a desktop icon	
	Ŧ
	•
< Back Install	Cancel

(6) Wait the installation to complete.

Installing	
Please wait while Setup installs SetupTool on your comp	outer.
Creating shortcuts	
C:\Users\Public\Desktop\SetupTool.lnk	

(7) Installation complete. Click "Finish".

💊 Setup - SetupTool	
	Completing the SetupTool Setup Wizard Setup has finished installing SetupTool on your computer. The application may be launched by selecting the installed icons. Click Finish to exit Setup.
	Finish

3.3 Setup Tool Application

A CD comes along with printer. The CD contains POS & label printer setup tool for configuring printer. Or, please find the latest setup tool on Dascom website: www.dascom.com

Read the help file carefully before using the setup tool. Please click "Help" button below for more information.

3.3.1 Model and Interface Setting

Select the printer model and the suitable interface before configuring printer.

Click "setting" for setting serial interface or parallel interface. For serial interface and emulation setting, the setting won't be valid unless you restart the printer.

Tally	Choose Interface		
Choose Interface Printer Setup Update Firmware Command Test	Printer Series Choose your printer series DL-210	~	
	Selection of interface	Setting	
Printer Series	O Parallel interface	Reset Wi-Fi settings	
DL-210	Network	Wi-Fi Setup	
LAN		Bluetooth Settings	
Application Language			

3.3.2 Configuring Printer

After model and interface setting, select "Printer Setup" tab for configurations.

Tally	Printer Setup	•					
DASCON	Page Mode:	On		•	Print Density:	2	•
Choose Interface	Print Media:	Label P	aper	•	Printer Language:	English	•
Update Firmware	Print Method:	Direct	Thermal	•	Peeler:	Off	•
Command lest	Print Speed:	4		•	Emulation:	ZPL	-
	Cut Mode:	Off		•	Paper Out Detection:	On	Ŧ
	Print Position Detection:	Off		•	Auto Calibrate Label:	Off	•
	Top Form Sensing:	Off	-	•	Paper sensor selection:	Gap sens	sor 🔻
Printer Series	Print Home Offset		0 mm		Cutting Positio	on et	0 mm
DL-210	Black Mark AD value:			0			Calibrate label
Interface	Get Printer Se	ttings	Print Self-	tes	Reset All S	Settings	Send Settings
USB							
Application Language							
Application Language	English		ſ		Help		Exit

> Setup Items Explanation

Setup Items	Options	Default	Description
Page Mode	On, Off	On	Use un-continuous paper set to on; Use continuous paper set to off.
Print Density	1, 2, 3, 4, 5, 6	2	Adjust print density. Level 1 is lowest, Level 6 is highest.
Print Media	Label Paper, Continuous Paper	Label Paper	Select the actual media type.
Printer Language	English, Chinese	English	Set the printer's system language, Chinese or English.
Print Method	Thermal Transfer, Direct Thermal	Thermal Transfer	Use ribbon select thermal transfer; Use thermal paper select direct thermal
Peeler	Off, On	Off	Enable peeler or not
Print Speed	1, 2, 3, 4	4	Adjust the print speed. Level 1 is lowest, Level 4 is highest.
Emulation	ZPL, EPL, TSPL	ZPL	Select ZPL/EPL while using un-continuous paper; Select ESC/POS while using continuous paper.
Cut Mode	Off, Full Cut, Partial Cut	Off	Set the printer's cutting mode.
Paper Out Detection	On, Off	On	On: Detect the printer's paper is empty or not. Off: Disable paper end detection.

Print Position Detection	On, Off	Off	Enable print position detection or not
Auto Calibrate Label	On, Off	Off	On: It will auto calibrate the label when you use a different size/format of label. Off: Disable auto calibrate label
Top Form Sensing	On. Off	Off	Before the printer begins to detect the label length, it will feed and print based on the printing data so as to avoid unnecessary waste of media during length detection.
Paper Sensor Selection	Gap sensor, Reference sensor	Gap sensor	Choose between the gap sensor and the reference sensor.
Print Home Offset	User-defined	0	Set the vertical distance between print home position and the top of black mark. When the value is positive, the media moves inward towards the printer, and vice versa. Range: -5^{+} (mm)
Cutting position offset	User-defined	0	Set the vertical distance of the tearing position. When the value is positive, the media moves inward towards the printer, and vice versa. Range: -5~+5 (mm)
Black mark AD value	User-defined	0	Adjust the black mark detection accuracy.

> Explanation for Buttons

Button	Description
Get Printer Setting	When printer is powering on, click this button for acquiring the current setup menu. It will display on the screen.
Print Self-test	Click this button for printing current settings for the printer.
Restore All Setting	Click this button for restore to default setting.
Send Setting	Make the new settings effective.
Calibrate label	Click this button to calibrate label.



• After setting, the printer will beep once, then the setting become valid.

• In order to enhance print head lifetime, it is recommended that set the low print density if the printing quality is acceptable.

3.4 LAN Interface Setup

(1) Select Network interface in the setup tool. Then click "Setting".

Tally	Choose Interface			
Choose Interface Printer Setup Update Firmware Command Test	Printer Series Choose your printer series DL-210	~		
	Selection of interface	Setting		
Printer Series	O Parallel interface	Reset Wi-Fi settings		
nterface LAN	Network	Wi-Fi Setup Bluetooth Settings		
Application Language	D Faciliat	Help	Exit	

(2) Click "Setup Printer".

				S	earch
SN.	MAC Addr.	Device name	FW Ver.	IP Addr.	
Device selected					
N No.:		Setup			
evice name:		printer			
	1				11 1/2

(3) You could change DHCP, IP address or other settings. Then enter OK.

DHCP	: Disable 🔻		
IP address	: 192.168.0.10	subnet mask:	255.255.255.0
Gateway IP address	: 192.168.0.1		

(4) At the end, click OK to implement the change.

				Se	earch
SN.	MAC Addr.	Device name	FW Ver.	IP Addr.	
450115170000	424339444135	DL-210	42.00.00	192.168.11.160	
Device selected	450115170000	Setun	n.		
Device name:	DL-210	printer			
MAC address:	424339444135			ок Са	ncel
ID address:	192,168,11,160	Monitor 9100			10120121

3.5 WLAN Interface Setup

If your printer needs to be connected to the computer via the Wi-Fi interface there are two basic modes of operation: AP mode and STA mode.

- AP means Access Point (AdHoc Mode). When the printer is working under AP mode, it receives information directly from the PC.
- STA means Station mode (Infra Structure Mode). When the printer is working under STA mode, communication through an access point serves as a bridge to other networks.

Initially the printer is factory set to AP mode; this is to ease to process of changing the printers Wi-Fi parameters. Users should use the setup tool to change the Wi-Fi parameters, such as IP address, network name, or switching to STA mode.

(1) Connect the PC to the printer with a USB cable. Turn on the printer.

Select USB interface in the setup tool. Then click "Wi-Fi Setup".

Tally	Choose Interface			
Choose Interface Printer Setup Update Firmware Command Test	Printer Series Choose your printer series DL-210	~		
	Selection of interface	Setting		
Printer Series	O Parallel interface	Reset Wi-Fi settings		
DL-210		Wi-Fi Setup		
interface		Bluetooth Settings		
Application Language O Simplified Chinese	English	Help	Exit	

(2) You could change the working mode, SSID, DHCP, IP address or other settings. Then enter Confirm to save the new setting.

Ni-Fi Setup	
Wi-Fi Mode:	AP ~
SSID:	DL-210 WF
Encryption:	None ~
Key Format:	ASCII 🗸
Key:	
DHCP:	Enable ~
IP Address:	192 . 168 . 1 . 11
Subnet Mask:	255 . 255 . 255 . 0
Gateway:	192 . 168 . 1 . 11
KEY FORMAT INSTRUCTION: 1.None:Key not required; 2.WEP64:The key should be 5 3.WEP128:The key should be 4.WPA-PSK(TKIP) or WPA-PSK WPA2-PSK(TKIP) or WPA2-PSK characters or 8 to 64 hexaded	ASCII characters or 5 hexadecimal digits; 13 ASCII characters or 13 hexadecimal digits; ((CCMP/AES) or K(CCMP/AES):The key should be 8 to 63 ASCII cimal digits.
Confirm	Close Reset Wi-Fi

3.6 Install Bluetooth Adapter Driver

- (1) Make sure your PC is installed with printer driver (see chapter 3.1) and Bluetooth capable.
- (2) Power on the printer and load the paper roll.

(3) Double click the Bluetooth icon 😧 at lower right corner on the PC screen. You will see the following window then Click "Add a device".

	Devices and Princers + Bidecooth De	vices 👻	Search Devices and Print	ers	,
Add a device	Add a printer			•	0
	No ite	ms match your search.	.]		
11	items				

(4) Click the model name and enter Next to continue.

Select a devi	ce to add to thi	is computer		
Windows will con	ntinue to look for n	new devices and dis	play them here.	
Da:	scom ietooth			
Dis	play			
What if Windows	s doesn't find my d	evice?		

(5) Then the Bluetooth adapter is installed in the computer.



(6) Go to **Control Panel** > **Hardware and Sound** > **Devices and Printers** > **Devices**. Right click the printer, and then select **Properties**. Enter the **Properties** of the printer device.



(7) Check the port type, in this case, it is COM4.



(8) Go to **Control Panel > Hardware and Sound > Devices and Printers > Printers**. Right click the printer, and then select **Printer Properties**.



(9) Select the output port that you have put down (in the case COM4) then click "Apply".

	Fonts		Tools	Abo	ut
General	Sharing	Ports	Advanced	Color Management	Security
50	Tally Dasco	om			
Print to t checked Port	he following port. Descrii	port(s). Do	ocuments will p	rint to the first free	^
	M. Serial I	Port		a ngan gan gan gan gan gan gan gan gan g	
	15: Serial I	Port			
	A6: Serial F	Port			
	A7: Serial F	Port			
	18: Serial F	Port			
	Print to	o File			
Senc	IT SendTo	oKindle Po	rt		~
A	dd Port		Delete Port	Configure	Port
☑ Enable	e bidirection e printer poo	al support ling			
☑ Enable □ Enable	e bidirectiona e printer poo	al support ling			

(10) Select "General" and click "Print test page" for checking Bluetooth performance.

2013 - C. S. S. S.	onts		lools	Abo	but
General	Sharing	Ports	Advanced	Color Management	Securit
50	Tally D	Dascom			
Location:					
Comment	t:				
Model: Features Color: I	Tally D	ascom	Paper a	available:	
Model: Features Color: I Double	Tally D Tally D So -sided: No	ascom	Paper	available:	~
Model: Features Color: I Double Staple:	Tally D No -sided: No No	lascom	Paper	available:	~
Model: Features Color: I Double Staple: Speed:	Tally D Tally D -sided: No No Unknown	ascom	Paper a	available:	^
Model: Features Color: I Double Staple: Speed: Maximu	Tally D No -sided: No No Unknown um resolutio	lascom	Papera	available:	< >



Setting pages vary depending on the different types of Bluetooth adapter.

3.7 Bluetooth Setup

(1) Select Network interface in the setup tool. Then click "Bluetooth Settings".

Tally	Choose Interface		
	Printer Series Choose your printer series		
Update Firmware Command Test	DL-210	~	
	Selection of interface		
	○ Serial interface	Setting	
Printer Series	O Parallel interface	Reset Wi-Fi settings	
DL-210	OSB Interface	Wi-Fi Setup	
interface _		Bluetooth Settings	
LAN		bidetovti settiliga	
Application Language			

(2) Click Get Bluetooth Settings.

Bluetooth Name:	
Bluetooth Password:	
Mac Address:	
Send Settings	Get Bluetooth Settings
Restore all Settings	Ok

(3) You could change the Bluetooth Name and Password, and then click "Send Settings". Click "Ok" to quit the setup.

Bluetooth Name:	DASCOM
Bluetooth Password:	0000
Mac Address:	8C-DE-52-30-FC-B2
Send Settings	Get Bluetooth Setting
Restore all Settings	Ok
Remark: 1. The Bluetooth name must b 2. The Bluetooth password mu 3. The printer beeps once whe setup is failed.	pe less than 15 characters in leng ust be 4 charcters. en clicked "Send Settings".If not,

3.8 Update Firmware



Dascom is not liable for any damage if customers are doing a firmware update by themselves. If power is switched off during the process, the printer may be damaged afterwards.

(1) Preparation

USB cable, 24V power adapter, DL-210 setup tool, firmware file.

(2) Connection

Connect printer and host with USB cable firmly. Check the Device Manager, if connection is successful, "USB printing support" will display under "universal serial Bus Controllers" directory. Otherwise, please check the connection between printer and USB interface, please check whether the Driver installation is successful or not.



(3) Enter Update Mode

① Lift up top cover and turn up print head mechanism



- ② Hold down Feed Button and switch on printer simultaneously. Release Feed Button once powering on, the printer beeps twice.
- ③ If the Status LED is on, then the printer enters upgrade mode successfully.

(4) Upgrade Firmware

 $(1)\,$ Run Dascom setup tool, select model Label Printer and USB interface.

② Select "Update Firmware" tab, then click "Browse" to locate the firmware/CG file, and then click "Update". This process may take up to 20 seconds.

Tally	Update Firmware
hoose Interface rinter Setup pdate Firmware ommand Test	Instruction Note: You could upgrade the firmware and/or CG via USB interface connection. Here is the procedure: 1.Enter firmware/CG upgrade mode manually. 2.Click "Browse" to select the firmware file. 3.Then click "Update" to load the firmware/CG. 4.When Error LED and Status LED blink, press the Feed button. 5.Turn the printer off and on after the printer beeps twice. (For detailed operation guide, please click"Help" for further information.) Update Firmware file path: Browse
inter	
DL-210	Update
terface	
AN	
opplication Language	

- ③ After loading the firmware, the Power LED, Error LED and Status LED should blink.
- 4 When the printer beeps twice, and the three LEDs are on, turn the printer off.
- 5 Firmware updated successfully.

3.9 Cutter and Peeler Setup (Option)

• Cutter Setup

(1) If the printer has the Cutter Option installed, switch "Cut Mode" parameter in "Printer Setup", within the Setup Tool, to On before operation.

	Printer Setup				
noose Interface	·	1			_
date Firmware	Page Mode:	~	Print Density:		~
mmand rest	Print Media:	~	Printer Language:		~
	Print Method:	~	Peeler:	Off	~
	Print Speed:	~	Emulation:		~
	Cut Mode: Off	~	Paper Out		~
	Print Position	~	Auto Calibrate		~
	Ton Form		Daper sensor		
ter	Sensing:	~	selection:		~
bel Printer(200DPI)	Print Home Offset	mm C	utting Position Offset	m	m
B	Black Mark AD value:			Calibr	ate labe
	Get Printer Settings	Print Self-test	Reset All S	ettings Send	Settings
plication Language Simplified Chinese ® E ni Printer SetupTool V1.0.	English 0				Exit
plication Language Simplified Chinese	English 0				Exit
plication Language Simplified Chinese (e) E ini Printer SetupTool V1.0. oose Interface	English 0 Printer Setup			-	Exit
plication Language Simplified Chinese t t	English 0 Printer Setup Page Mode:	~	Print Density:	-	Exit
plication Language Simplified Chinese ini Printer SetupTool V1.0. oose Interface nter Setup date Firmware mmand Test	English 0 Printer Setup Page Mode: Print Media:	~ ~	Print Density: Printer Language:	-	
plication Language Simplified Chinese ini Printer SetupTool V1.0. oose Interface hter Setup date Firmware mmand Test	English 0 Printer Setup Page Mode: Print Media: Print Method:	~ ~ ~	Print Density: Printer Language: Peeler:	Coff	
plication Language Simplified Chinese ini Printer SetupTool V1.0. oose Interface nter Setup date Firmware mmand Test	English 0 Printer Setup Page Mode: Print Media: Print Method: Print Speed:	× × ×	Print Density: Printer Language: Peeler: Emulation:	Off	
plication Language Simplified Chinese ini Printer SetupTool V1.0. oose Interface nter Setup date Firmware mmand Test	English 0 Printer Setup Page Mode: Print Media: Print Method: Print Speed: Cut Mode: On		Print Density: Printer Language: Peeler: Emulation: Paper Out Detection:	Off	
plication Language Simplified Chinese ini Printer SetupTool V1.0. oose Interface nter Setup date Firmware mmand Test	English 0 Printer Setup Page Mode: Print Media: Print Method: Print Speed: Cut Mode: On Print Position Detection	× × × × ×	Print Density: Printer Language: Peeler: Emulation: Paper Out Detection: Auto Calibrate	Off	
plication Language Simplified Chinese ini Printer SetupTool V1.0. oose Interface nter Setup date Firmware mmand Test	English 0 Printer Setup Page Mode: Print Media: Print Method: Print Speed: Cut Mode: On Print Position Detection: Top Form	 > ><	Print Density: Printer Language: Peeler: Emulation: Paper Out Detection: Auto Calibrate Label: Paper sensor	Off	
plication Language Simplified Chinese ini Printer SetupTool V1.0. oose Interface nter Setup date Firmware mmand Test	English 0 Printer Setup Page Mode: Print Media: Print Method: Print Speed: Cut Mode: On Print Position Detection: Top Form Sensing:	× × × × × ×	Print Density: Printer Language: Peeler: Emulation: Paper Out Detection: Auto Calibrate Label: Paper sensor selection:	Off	
plication Language Simplified Chinese ini Printer SetupTool V1.0. oose Interface nter Setup date Firmware mmand Test	English 0 Printer Setup Page Mode: Print Media: Print Method: Print Speed: Cut Mode: On Print Position Detection: Top Form Sensing: Print Home Offset		Print Density: Printer Language: Peeler: Emulation: Paper Out Detection: Auto Calibrate Label: Paper sensor selection: utting Position	Off m	
plication Language Simplified Chinese Ini Printer SetupTool V1.0. oose Interface nter Setup date Firmware mmand Test	English 0 Printer Setup Page Mode: Print Media: Print Method: Print Speed: Cut Mode: On Print Position Detection: Top Form Sensing: Print Home Offset Black Mark AD	<pre></pre>	Print Density: Printer Language: Peeler: Emulation: Paper Out Detection: Auto Calibrate Label: Paper sensor selection: utting Position Offset	Off	
plication Language Simplified Chinese © E ini Printer SetupTool V1.0. oose Interface nter Setup date Firmware mmand Test hter abel Printer(200DPI) erface 58	English 0 Printer Setup Page Mode: Print Media: Print Method: Print Speed: Cut Mode: On Print Position Detection: Top Form Sensing: Print Home Offset Black Mark AD value:	<pre></pre>	Print Density: Printer Language: Peeler: Emulation: Paper Out Detection: Auto Calibrate Label: Paper sensor selection: utting Position Offset	Off m Calibr	Exit

• Peeler Setup

(1) If the printer has the Peeler Option installed, switch "Peeler Mode" parameter in "Printer Setup", within the Setup Tool, to On before operation.

	Printer Setup					
inter Setup						
odate Firmware	Page Mode:	~	Print Density:	~		
	Print Media:	~	Printer Language:	~		
	Print Method:	~	Peeler:	Off ~		
	Print Speed:	~	Emulation:	~		
	Cut Mode:	~	Paper Out Detection:	t :		
	Print Position Detection:	~	Auto Calibrate Label:	~		
	Top Form		Paper sensor			
nter	Sensing:	~	selection:	~		
adei Printer(200DPI) erface	Offset	mm	utting Position Offset	mm		
SB	Black Mark AD value:			Calibrate label		
	Cet Printer Setting	Drint Salf-tast	Reset All S	attings Sand Sattings		
		1.1.2. 4				
oplication Language Simplified Chinese	inglish 0			Exit		
pplication Language Simplified Chinese	nglish 0 Printer Setup			Exit		
oplication Language Simplified Chinese	nglish 0 Printer Setup			Exit		
oplication Language Simplified Chinese Mini Printer SetupTool V1.0.4 Choose Interface rinter Setup Ipdate Firmware	nglish 0 Printer Setup Page Mode:	~	Print Density:	Exit		
oplication Language Simplified Chinese Wini Printer SetupTool V1.0.4 Choose Interface rinter Setup Ipdate Firmware Command Test	nglish 0 Printer Setup Page Mode: Print Media:	× 	Print Density: Printer Language:	Exit		
oplication Language Simplified Chinese Wini Printer SetupTool V1.0.0 Choose Interface rinter Setup Update Firmware Command Test	nglish 0 Printer Setup Page Mode: Print Media: Print Method:	× 	Print Density: Printer Language: Peeler:	Exit 		
oplication Language Simplified Chinese Wini Printer SetupTool V1.0.0 Choose Interface rinter Setup Ipdate Firmware Command Test	nglish O Printer Setup Page Mode: Print Media: Print Method: Print Speed:	× × ×	Print Density: Printer Language: Peeler: Emulation:	Exit 		
pplication Language Simplified Chinese Mini Printer SetupTool V1.0.0 Choose Interface Initer Setup Ipdate Firmware Command Test	nglish Printer Setup Page Mode: Print Media: Print Method: Print Speed: Cut Mode:	× × × × ×	Print Density: Printer Language: Peeler: Emulation: Paper Out Detection:	Exit 		
pplication Language Simplified Chinese Mini Printer SetupTool V1.0.4 Choose Interface Printer Setup Ipdate Firmware Command Test	nglish Printer Setup Page Mode: Print Media: Print Method: Print Speed: Cut Mode: Print Position Detection:	> > > > > >	Print Density: Printer Language: Peeler: Emulation: Paper Out Detection: Auto Calibrate Label:	Exit 		
oplication Language Simplified Chinese Mini Printer SetupTool V1.0.4 Choose Interface rinter Setup Ipdate Firmware Command Test	nglish Printer Setup Page Mode: Print Media: Print Method: Print Speed: Cut Mode: Print Position Detection: Top Form Sensing:	> > > > > > > > >	Print Density: Printer Language: Peeler: Emulation: Paper Out Detection: Auto Calibrate Label: Paper sensor selection:	Exit 		
pplication Language Simplified Chinese E Mini Printer SetupTool V1.0.4 Choose Interface rinter Setup Update Firmware Command Test rinter Label Printer(200DPI)	o Printer Setup Page Mode: Print Media: Print Method: Print Speed: Cut Mode: Print Position Detection: Top Form Sensing: Print Home Offect	~ ~ ~ ~ ~ ~ ~	Print Density: Printer Language: Peeler: Emulation: Paper Out Detection: Auto Calibrate Label: Paper sensor selection: utting Position	Exit 		
pplication Language © Simplified Chinese © E Mini Printer SetupTool V1.0.0 Choose Interface Printer Setup Update Firmware Command Test rinter Label Printer(200DPI) Iterface	english	<pre> </pre> </td <td>Print Density: Printer Language: Peeler: Emulation: Paper Out Detection: Auto Calibrate Label: Paper sensor selection: utting Position Offset</td> <td>Exit </td>	Print Density: Printer Language: Peeler: Emulation: Paper Out Detection: Auto Calibrate Label: Paper sensor selection: utting Position Offset	Exit 		
pplication Language © Simplified Chinese © E Mini Printer SetupTool V1.0.4 Choose Interface rinter Setup Jpdate Firmware Command Test inter Label Printer(200DPI) terface JSB	english	 <	Print Density: Printer Language: Peeler: Emulation: Paper Out Detection: Auto Calibrate Label: Paper sensor selection: utting Position Offset	Exit 		

4 SETTING/CHECKING MODES

Besides the ordinary print mode, the printer has the following modes to set or to check settings of the printer.

- Self-test Mode
- Hexadecimal Dumping Mode
- Auto Calibrate Label

4.1 Print a Parameter Setting Page (Self-test Page)

Before you connect the printer to the computer, make sure that the printer is in proper working order.

You can do this by printing a configuration status label.

1. Make sure the media is properly loaded, the top cover of the printer is closed and the printer is power off. Then, press and hold the Feed button once you are ready.

2. Hold down Feed Button and then switch on printer until Power LED blinks once, buzzer beeps once.

3. The printer will print out a parameter setting page.

Here is the self-test status page and its explanation. The printout is an example. It may differ depending of installed options or interfaces:

Model -	
Serial Number	
ID Number	
F/W	
Interface type -	
Serial setting -	
Emulation type	
	C
Media info and	
Printing method	───
I finding incurod	
	Let Contract and C
a l	
Current memory s	ize
Density	
Peeler status	
Black mark status	
	(
Cutter status	
Cutter status	
Dataat laak of ma	dia
Auto verify label	status
Detect postion star	tus —
Page mode status	
Current printing sp	peed
Current printing w	vidth

Р	arameter settings
Model	DL-210
SN NO	XXXXXXXXXXXX
ID NO	28.904.XX
Firmware versi	on40.XX.XX
Interface	USB+Parallel
Serial interface	9600bps 8bitD/1bits/None
Emulation	ZPLII
Media	Label
Print Type	Direct Thermal
Print Sensor	Reflect
Print count	0m
Label size	100.0mm
Gap size	2.0mm
Sensor AD	G3 D 300 B 0 1.09V 0.28V
Memory	8192K
Print Density	2
Peeler	Off
Black Mark	Off
Cutter	On
Cut mode	full cut
Home position	adjust0 mm
Tear position a	djust0 mm
Paper end dete	ctionOn
Auto Calibrate	LabelOff
Print Position I	DetectionOff
Page mode	On
Print Speed	150mm/s
Print Width	108mm (8dot.mm)

Tally Dascom

4.2 Hexadecimal Dumping Mode

Hold down Feed Button and switch on printer until Power LED blinks three times, buzzer beeps three times.

When the self-test is OK but on-line printing error occurs, you can check the communication between PC and program via Hexadecimal Dump mode. In Hexadecimal Dump mode, the printer will print out hexadecimal data once it receives the signal from host. With this information you can ask technical service for analysis.

The printer starts printing "HEX DUMP PRINT MODE" followed by the received data printed in hexadecimal numbers and some characters.

CAUTION!

- The printer prints "." if there is no characters corresponding to data.
- During hexadecimal dump, functions except some command will be disabled.
- If print data does not cover a line, press the FEED switch to print the line.

Printing example:

0123456789abcdefghijk1mnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ

Hexadecimal Dump To terminate hexadecimal dump, press FEED button.																
30 67 77	31 68 78	32 69 79	33 6A 7A	34 6B 41	35 6C 42	36 6D 43	37 6E 44	38 6F 45	39 70 46	61 71 47	62 72 48	63 73 49	64 74 4A	65 75 4B	66 76 4C	0123456789abcdef ghijklmnopqrstuv wxyzABCDEFGHIJKL
4D	4E	4F	50	51	52	53	54	55	56	57	58	59	5A			MNOPQRSTUVWXYZ
*** Completed ***																

Press the FEED button one time to feed the last line after the printer stops printing so as to return to the normal mode.

4.3 Auto Calibrate Label

DL-210 can calibrate label automatically. Hold down Feed Button and switch on printer till Power LED blinks twice, buzzer beeps twice.

Label calibration should be executed in the following situations:

- Use printer for printing label for the first time.
- After replacing different size of labels.
- If the printer skips labels
- If the printer feeds blank labels.
- After refilling with new roll of labels.
5 TROUBLESHOOTING AND MAINTENANCE

Your printer is extremely reliable, but occasionally problems may occur. This chapter provides information on some of the common problems you may encounter and how you may solve them. If you encounter problems that you cannot resolve, please contact your dealer for assistance. Read the following instructions before maintenance and avoid incorrect operation, so as to prevent injury to you and damage to the printer.

5.1 Common Issues

• LED Indication and Buzzer Alarm

Condition	Possible Cause	What to do?						
	Power cord unplugged	Check power cord and plug it properly						
	Printer turned off	Turn on printer						
No LEDs on	Damaged PCB	Contact service representatives						
	Power source unavailable	Check the cable and adapter, or change another cable or/and adapter.						
Status LED always on	Media ended	Re-load media						
Error LED always on	Print head mechanism open	Close the print head mechanism						
Status LED blinks	Label remaining in peeler	Remove label						
Status LED DIINKS	Ribbon ended	Replace ribbon						
Error LED blinks and	Thermal print head overheated	Turn the printer off and wait some minutes before resume						
buzzer alarms	Over-voltage	Print with specified voltage adapter						
	Low-voltage	Print with specified voltage adapter						
Power LED and Error LED fast blink three times, buzzer alarms three times	Gap sensor error alarm. The black mark sensor does not align with the receiving sensor, that it, two triangles do not align.	Move around the black mark sensor, so that the triangle aligns with another on the center housing.						
Press feed button after power on, Error LED slowly blinks once and then fast blinks three times; buzzer alarms four times	Cutter error alarm. The cutter option is enabled, but the cutter is not installed.	Disable the cutter in the setup tool.						
Error LED blinks fast	Gap detection error.	 When using labels, remember to set the proper media with the setup tool. Due to sensor error or other problems, the sensor could not detect the gap. Clean or/and adjust the media sensor. 						

• Printing Error

Condition	Possible Cause	What to do?					
	Incorrect media roll installation	Check media roll and re-load it properly					
	Media is out of specification	Use recommended media					
	Dirty thermal print head or platen	Clean print head or platen					
Blurred or spot printing	Ribbon is out of specification	Use recommended ribbon					
	Low print density	Increase the print density (use the setup tool instead)					
	Print with Ribbon on Direct Thermal paper	Remove ribbon					
Self-test fail	Hardware problem	Contact service representatives					
Media jam	Label stuck	Check media path and clean jammed label, refer to Chapter 5 Section 5.3					
Printer skips labels	Label positioning problem or label size setting exceeds the physical size.	Execute label calibration (refer to Chapter 4 section 4.3). If that doesn't work, you have to verify the label size setting is correct or not.					
Printer feeds blank labels	Print without ribbon on transfer thermal paper	Install ribbon					
Paper size setting correct but the printout is crooked, skewed, or off-center.	Label did not calibrate correctly	Execute label calibration (refer to Chapter 4 section 4.3).					

5.2 Resetting the Factory Default Values

Sometimes, resetting the printer to the factory defaults may solve some problems.

There are two methods to set to factory setting:

Method one: Hold down Feed Button and switch on printer till Power LED blinks four times, buzzer beeps four times.

Method two: through setup tool, choose restore all setting on printer setup page.

5.3 Removing Jammed Label



Printhead may be hot, please do not touch!

- (1) Turn printer off, open top cover and turn up print head mechanism.
- (2) Remove the jammed label and ribbon, clean the print head with a cotton swab with alcohol in case of ribbon paste on print head and cause poor print quality.

(3) Reload media.

(4) Reload ribbon and turn the ribbon adjustor for rewinding the sticky part.

5.4 Cleaning Thermal Print Head



- After printing, the print head becomes very hot. Be careful not to touch it and to let it cool before you clean it.
- Do not damage the print head by touching it with your fingers or any hard object.

• Turn off the printer, open the top cover and remove ribbon, clean the thermal elements of the print head with a cotton swab moistened with alcohol solvent (ethanol, methanol, or isopropyl). Be gentle with the cleaning to avoid damaging the delicate printhead.

• We recommend cleaning the thermal print head periodically (generally every 3 months) to maintain print quality.

5.5 Maintenance

DL-210 is designed for a long and reliable lifetime. But periodic maintenance is recommended in order to assure error free working. This also would guarantee the good print quality over the life time. It is recommended to clean the printer once every six months or after 300 hours duty. Before cleaning, switch off the printer, wait a few seconds and unplug the power cord.

- Open the cover and remove the dust, paper shreds and other debris from inside by using a soft vacuum cleaner or a brush.
- In order to remove the dirt, you can wipe clean the machine with a soft cloth dipped in alcohol instead of the ketone or TEC solvent which may cause damage to the plastic parts. Please be aware that excessive moisture will lead to the improper functioning of electronic parts.
- Clean the platen roller with soft cloth.

While you are cleaning the printer, in order to avoid short circuit, do not damage or loose the cable or electronic parts, do not drop metal material inside, such as Paper Clips or Pins.

6 COMMUNICATION INTERFACES SPECIFICATIONS

6.1 USB interface

• USB interface pin assignment

PIN No.	Description	Classic wire color
1	VBUS	Red
2	D-	White
3	D+	Green
4	GND	Black

• USB interface connector diagram



6.2 Wi-Fi interface

Wi-Fi interface supports 2.4 GHz, IEEE Std. 802.11b/g standard.

6.3 Bluetooth Interface

Bluetooth version: Standard BT3.0/ 4.0+EDR Communication protocol: SPP Radio frequency: 2.4GHz Transmission distance: 10m

6.4 Ethernet interface

• Ethernet interface pin assignment

Pin. No.	Name	Description
1	TX+	Tranceive Data+
2	TX-	Tranceive 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

• Ethernet interface connector diagram



6.5 Serial interface

• Serial interface pin assignment

Serial interface compatible with RS-232 standard, with 25 pin (D hole type) socket.

PIN No.	Description
PIN 1	Frame Ground
PIN 2	TXD
PIN 3	RXD
PIN 4	RTS
PIN 5	Unconnected
PIN 6	DSR
PIN 7	Signal Ground
PIN 8~19	Unconnected
PIN 20	DTR
PIN 21~25	Unconnected

User can view the setting of interface via printing configuration sample.

The default setting of serial interface is as follow, 38400 bps (baud rates), 8 bit (data bit), 1 bit (stop

bit), no parity, support RTS/CTS handshaking protocol.

• Serial interface connector diagram



6.6 Parallel interface

• Parallel interface pin assignment

Parallel interface with 36 pin CENTRONICS socket.

Pin No.	Signal From	Description
1	н	Strobe Signal; Data latch pulse, latch the data to the printer
		at the rising edge of the negative pulse.
2	Н	Data 0 (The lowest bit)
3	Н	Data 1
4	Н	Data 2
5	Н	Data 3
6	Н	Data 4
7	Н	Data 5
8	Н	Data 6
9	Н	Data 7 (The highest bit)
10	D	ACK Signal; Printer response signal, indicates that the
10	F	printer has received a Data byte.
11	D	Busy Signal; The printer is busy; High level indicates that
	1	the printer can't receive data.
12	р	PE Signal; Paper end signal; High level indicates that the
	•	printer is out of paper.
13		Unconnected
14	—	Unconnected
15	_	Unconnected
16	Logic Ground	
17	Frame Ground, se	parated from logic ground.
18	_	5V/500mA power output
19~30	Logic Ground	
31	_	Initialization signal
22	D	Printer error signal. Low level indicates that an error occurs
52	۲ 	in the printer. It will come with paper end.
33	Logic Ground	
34~35		Unconnected
36	Unconnected	

Remarks:

H indicates that signal comes from Host computer; P indicates that signal comes from Printer.

• Parallel interface connector diagram



6.7 Power Supply

(1) Power adapter

Input: AC 100V-240V~ 1.5A 50-60Hz

Output: DC 24V \pm 5%, 2.1A, A-1009-3P interface

(2) Power Supply connector diagram



(3) Power Socket pin assignment

Pin Number	Signal Name
1	+24 V
2	GND
3	N.C
SHELL	F.G.

(4) Power Supply interface type

Printer - Unetop DC-002 or similar products

Computer - Unetop DP-002 or similar products

•

7 CHARACTER CODE PAGES



The character code tables show only character configurations. They do not show the actual print pattern.
"SP" in the table shows a space.

Common to all pages (International Character Set: USA) 7.1

HEX	0	1		2		3		4		5		6		7
0	NUL	DLE	SP		0		@		Р		`		р	
0	00	16		32		48		64		80		96		112
		XON	!		1				Q		а		a	
1	01			33		49	A	65	-	81		97		113
	01			00		10			_	01		0,	_	
2					2		в		R		b		R	
	02	18		34		50		66		82		98		114
		XOFF	#		3				s		с		s	
3	03			35		51		67	-	83		90		115
	FOT		\$	00	4	51		07	Т	00	Ь	33	t	115
4			Ψ	36	1	52		68	1'	84	ŭ	100	`	116
	ENO ENO		%		5	02	F	00	U	04	P	100		110
5		2	- ~	37	Ĭ	53		69	Ĭ	85	Ĭ	101	ľ	117
	ACK		&	0.	6		F		V		f		V	
6	06	22		38		54		70	1	86		102		118
_		CAN	'		7		G		W		g		w	
	07	23		39		55	1	71	1	87		103	1	119
			(8		н		Х		h		х	
8	08	24		40		56	1	72	1	88		104	1	120
0	HT)		9		Ι		Y		i		у	
9	09	25		41		57		73		89		105		121
<u>۸</u>	LF		*		:		J		Z		j		Z	
	10	26		42		58		74		90		106		122
в		ESC	+		;		K][k		{	
	11	27		43		59		75		91		107		123
с	FF	FS	,		<		L		\			400		
	12	28		44		60		76		92		108		124
D				45	=	61	M	77]	03	m	100	}	125
	10	RS 20		5	<u> </u>	01	N		^	35	n	103	~	120
E	14	30	- ·	46	1	62		78	1	94		110		126
_			/		?		0				0		SP	
F	15	3		47		63		79		95		111	1	127

7.2 International Character Sets

			A	SCII co	ode (He	ex)						
Country	23	24	40	5B	5C	5D	5E	60	7B	7C	7D	7E
USA	#	\$	@	[١]	^		{	Ι	}	~
France	#	\$	à	٥	Ç	§	^		é	ù	è	
Germany	#	\$	§	Ä	Ö	Ü	^		ä	ö	ü	β
U.K.	£	\$	@	[١]	^		{	Ι	}	~
Denmark I	#	\$	@	Æ	ø	Å	^	•	æ	ø	å	~
Sweden	#	¤	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü
Italy	#	\$	@	0	١	é	^	ù	à	ò	è	ì
Spain I	Pt	\$	@	i	Ñ	Ś	^	•		ñ	}	~
Japan	#	\$	@	[¥]	^	•	{	1	}	~
Norway	#	¤	É	Æ	ø	Å	Ü	é	æ	ø	å	ü
Denmark II	#	\$	É	Æ	ø	Å	Ü	é	æ	ø	å	ü
Spain II	#	\$	á	i	Ñ	Ś	é	•	í	ñ	ó	ú
Latin America	#	\$	á	i	Ñ	Ś	é	ü	í	ñ	ó	ú
Korea	#	\$	@]	W]	^	•	{	1	}	~
Slovenia/ Croatia	#	\$	Ž	Š	Ð	Ć	Č	ž	Š	đ	ć	č
China	#	¥	@	[١]	^	`	{		}	~

7.3 [User-defined page]

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

7.4 [PC437: USA, Standard Europe]

HEX		8	ç	9		А		В		С		D		E		F
0	Ç		É		á				L		Ш		α		≡	
0		128		144		160		176	1	192		208		224		240
	ü		ж		í				T		Ŧ		ß		+	
1	-	129		145		161		177		193		209	۲	225	-	241
	á		Æ		ó				_				г		>	
2		120	72	146		160		170		104	Π	210	T	226	-	242
	•	130	•	140	,	102		170		194		210		220		242
3	a		0		u			r	ļŀ				Π		≤	
		131		147		163		179		195		211		227		243
4	ä		Ö		ñ		-		—		E		Σ		ſ	
		132		148		164		180		196		212		228		244
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5		133		149		165	1	181	1	197		213	Ŭ	229	J	245
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7.5 [PC850: Multilingual]

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7.6 [PC852: Latin2]

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7.7 [PC858: Euro]

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7.8 [PC860: Portuguese]

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7.9 [PC863: Canadian-French]

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7.10 [PC865: Nordic]

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7.11 [PC866: Cyrillic #2]

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7.12 [PC720: Arabic]

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_	SP	1	1	1	»	1	7	1	SP	1		1	ي		SP	<u>.</u>
F		143		159		175		191	1	207		223		239		255

8 COMMAND SETS

8.1 ZPL Command Sets

Commands	Function
^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
^ВК	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 Symbology)
^BS	UPC/EAN Extensions
^BT	TLC39 Bar Code
^BU	UPC-A Bar Code
^BX	Data Matrix Bar Code
^BY	Bar Code Field Default

Commands	Function
^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
^FW	Field Orientation

Commands	Function
^FX	Comment
^GB	Graphic Box
^GC	Graphic Circle
^GD	Graphic Diagonal Line
^GE	Graphic Ellipse
^GF	Graphic Field
^GS	Graphic Symbol
~НВ	Battery Status
~HD	Head Diagnostic
^HF	Host Format
^HG	Host Graphic
^нн	Configuration Label Return
~ні	Host Identification
~НМ	Host RAM Status
~HQ	Host Query
~HQ	Examples
~HS	Host Status Return
^HT	Host Linked Fonts List
~HU	Return ZebraNet Alert Configuration
^HV	Host Verification
^HW	Host Directory List
^HY	Upload Graphics
^HZ	Display Description Information
^ID	Object Delete
^IL	Image Load
^IM	Image Move
^IS	Image Save
~JA	Cancel All
^JB	Initialize Flash Memory
~JB	Reset Optional Memory
⊃JC~	Set Media Sensor Calibration
-D D	Enable Communications Diagnostics
~JE	Disable Diagnostics
~JF	Set Battery Condition

Commands	Function
~JG	Graphing Sensor Calibration
^JH	Early Warning Settings
^JI	Start ZBI (Zebra BASIC Interpreter)
~JI	Start ZBI (Zebra BASIC Interpreter)
~J]	Set Auxiliary Port
~JL	Set Label Length
^JM	Set Dots per Millimeter
~JN	Head Test Fatal
~JO	Head Test Non-Fatal
~JP	Pause and Cancel Format
~JQ	Terminate Zebra BASIC Interpreter
~JR	Power On Reset
^JS	Sensor Select
~JS	Change Backfeed Sequence
^JT	Head Test Interval
^JU	Configuration Update
^JW	Set Ribbon Tension
~JX	Cancel Current Partially Input Format
^JZ	Reprint After Error
~КВ	Kill Battery (Battery Discharge Mode)
^KD	Select Date and Time Format (for Real Time Clock)
^KL	Define Language
^KN	Define Printer Name
^KV	Kiosk Values
^LF	List Font Links
^LH	Label Home
^LL	Label Length
^LR	Label Reverse Print
^LS	Label Shift
^LT	Label Top
^MA	Set Maintenance Alerts
^MC	Map Clear
^MD	Media Darkness
^MF	Media Feed

Commands	Function
^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
^РН ~РН	Slew to Home Position
~PL	Present Length Addition
^PM	Printing Mirror Image of Label
^PN	Present Now
^PO	Print Orientation
^рр~рр	Programmable Pause
^PQ	Print Quantity
^PR	Print Rate
~PR	Applicator Reprint
~PS	Print Start
^PW	Print Width
~RO	Reset Advanced Counters
^SC	Set Serial Communications
~SD	Set Darkness
^SE	Select Encoding Table
^SF	Serialization Field (with a Standard ^FD String)
^SI	Set Sensor Intensity
^SN	Serialization Data

Commands	Function
^SP	Start Print
^SQ	Halt ZebraNet Alert
^SR	Set Print head Resistance
^SS	Set Media Sensors
^SZ	Set ZPL
^TB	Text Blocks
^ТО	Transfer Object
~WC	Print Configuration Label
^WD	Print Directory Label
~WQ	Write Query
~WQ	Examples
^ХА	Start Format
^ХВ	Suppress Backfeed
^XF	Recall Format
^XG	Recall Graphic
^XS	Set Dynamic Media Calibration
^XZ	End Format
^ZZ	Printer Sleep

8.2 EPL Command Sets

Commands	Function
А	ASCII text
В	Bar Code (EAN-8 / EAN-13 / UPC-A / Interleaved 25 / Codabar /
	UPC-E / Code39 / Code 128)
b	MaxCode (Data Matrix / PDF417 / QR Code)
с	Cut Immediate
D	Density
EI	Print Soft Font Info.
EK	Delete Soft Font
ES	Store Soft Font
f	Cut/peel position
GG	Tetrieve Graphics
GI	Print Graphics Info.
GK	Delete Graphic
GM	Store Graphic
I	Character Set Selection
JF	Enable Top of Form Backup
LO	Line Draw Black
LS	Line Draw Diagonal
N	Clear Image Buffer
0	Options Select
Р	Print
q	Set Label Width
Q	Set Form Width
R	Set Reference Point
S	Speed Select
х	Box Draw
Z	Print Direction
;	Code Anotation
^@	Reset Printer
^default	Set Printer to Factory Defaults

8.3 TSPL Command Sets

Commands	Function
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	This setting activates or deactivates the cutter and defines how many printed labels is to
PARTIAL_CUTTER	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

Appendix I: AUTOCUTTER (OPTION)

Cutter is the factory option of the printer. It will be installed in the printer before shipment if configured.

Removing the Tear Bar

(1) Turn off the printer power and open the top cover and the print head mechanism, and then pull the tear bar to your side.



(2) Lift the tear bar up and it can be easily removed.



(3) The tear bar is removed.





Note: Do it in reverse steps so as to install the tear bar.

Installing the Auto Cutter

(1) Power down the printer before installing the cutter. Plug in the cutter connector to the printer.



(2) Put the auto cutter onto the slot of the low casing.



(3) Move the auto cutter gently to the reverse board till you hear the click sound.



(4) After installation, you can use the auto cutter.



(5) Enable the cutter in the setup tool.

Appendix II: PEELER (OPTION)

Peeler is the factory option of the printer. It will be installed in the printer before shipment if configured.



Peeler

Appendix III: FCC STATEMENT

1. 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.

2) This device must accept any interference received, including interference that may cause undesired operation.

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



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with 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:

- Re-orientate 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.

Appendix IV: DASCOM REPRESENTATIVES

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