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<sup>I</sup>Introduction

Media Loading

Connect Printer Controls

Cleaning and Troubleshooting

Accessories and Contact Info

## Introduction

Thank you for choosing the Zebra QLn<sup>™</sup> Series Mobile Printers. These rugged printers will become a productive and efficient addition to

your workplace thanks to their innovative design. Because it is made by Zebra Technologies you can be assured of world-class support for all of your bar code printers, software, and supplies.

This document provides an easy reference for operating and maintaining the QLn Series Mobile Printer.

Battery Install & Charging Complete and current documentation for this printer is provided by the QLn Series User Guide available on the Internet at: www.zebra.com/manuals.





QLn320

QLn220

11

QLn320	QLn220
Media width:	Media width:
1.0 in. to 3.125 in.	.63 in. to 2.18 in.
(25,4 mm to 79,4 mm)	(16 mm to 55,37 mm)
Printer Dimensions	Printer Dimension
H: 6.85 in. (173,659 mm)*	H: 6.73 in. (170,9 mm)*
W: 4.65 in.(117,856 mm)	W: 3.60 in. (91,4 mm)
D: 3.15 in (76,9 mm)	D: 2.75 in. (69,9 mm)
* with belt clip	* with belt clip

Always refer to the Important Safety Information data sheet shipped with each printer and the Technical Bulletin shipped with each battery pack. These documents detail procedures to ensure maximum reliability and safety while using this printer.

## QLn Series Overview (QLn320 Shown)



- 11. LCD Screen
- 12. Printhead
- 13. Media Cover
- 14. Gap Sensor
- **Power Button** 15.
- 16. Feed Button
- 17.
- LED Charge Indicator



## **QLn Series Overview continued**

## **Removing the Battery**







# **Installing the Battery**



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Introduction

Accessories and Contact Info

## **Charging the Battery**

There are five (5) ways to charge the QLn Series battery, two of which being with the battery outside the printer (Quad Charger and Smart Charger-2), and three inside the printer (AC Power Adapter, Single Bay Ethernet Cradle, and Four Bay Ethernet Cradle). All five options are detailed in the following sections.

### UCLI72-4 Quad Charger

The UCLI72-4 Quad Charger charges up to four QLn Series battery packs simultaneously. Batteries must be removed Battery Install & Charging from the printer to be charged in the Quad Charger.

The indicators under the battery will allow you to monitor the charging process per the table below:



Amber	Green	Battery Status
On	Off	Charging
On	Flashing	80% charged (O.K. to use)
Off	On	Completely Charged
Flashing	Off	Fault

#### Smart Charger-2 (SC2) Single Battery Charger



- Plug the SC2 charger into the AC outlet.
- Insert the smart battery pack in the SC2 charger.
- The LED on the front of the charger will indicate the battery pack's charge status. Green indicates fully charged, Yellow indicates charging, and Amber indicates a fault.
  - When the SC2 is plugged in but no battery is present, the Charge Status LED indicator will be green.
- A second LED will indicate the health of the battery pack: Green=GOOD, Yellow=CAPACITY DIMINISHED, Yellow Flashing=PAST USEFUL LIFE, and Amber=UNUSABLE-REPLACE BATTERY. If the LED is off, there is either no battery or power present.

Consult the QLn Series User Guide available at www.zebra.com/manuals for complete information on using the SC2 Single Charger.

The charge state of the QLn Series battery is reflected by the LED Charge Indicator located on the front of printer (as illustrated in the Printer Controls section on Page 8).



Caution • Do not incinerate, disassemble, short circuit, or expose to temperatures higher than 60°C (140°F).

Pect Printer

Printer

Geaning and Trouble.

Accessories and Contact Info

Contra



- Open the protective cover on the QLn Series printer to expose the DC input charger jack.
- Connect the appropriate AC power cord for your geography to the adapter and then plug the power cord into an AC receptacle.
- Plug the barrel plug from the AC adapter into the charger jack on the printer.
- The printer will power up and begin charging. The printer can be left on or turned off at this point. Charging will continue in either state, the status of which will be monitored by the LED charge indicator on the front of the printer.

Batteries are shipped uncharged. Remove protective shrinkwrap and labels from new battery packs and allow them to charge completely prior to initial use.

While it's possible to charge the battery when using the printer, charge times will increase under this condition.

Ethernet Cradle (Single Bay & Four Bay)

## Single Bay (QLn-EC)



LED Function	LED Status	Indication
Power	Solid Green	Power On
Ethernet	Blinking Green	Ethernet Activity



NOTE: Remove the "Docking Cradle Access" label (shown below) on the bottom of the printer before docking the printer in the cradle.



#### Four Bay (QLn-EC4)



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# Loading the Media





Introduction

## **Connecting the Printer**

## **Connect The Printer With a Cable**

You can connect your printer to a terminal or a PC using either RS232C or USB protocols. USB drivers are included in the Zebra Designer Driver which is available on the QLn Series product CD or can be downloaded from the Zebra Web site at <u>www.zebra.com/software</u>.



Geaning and Troubleshooting

Accessories and Contact Info

## **Printer Controls**



Power Button Press to turn unit on. There will be a 10 second boot up time. Press again to turn unit off

-Feed Button Press to advance a blank label or a software determined length of journal media.



\*\* Not every icon will be displayed on the Status Bar at one time, only those applicable to the printer's configuration.

## **Cleaning the Printers**

Caution • To avoid possible personal injury or damage to the printer never insert sharp or pointed objects into the printer mechanism.



Area	Cleaning Method	Interval	
Printhead	Use the supplied cleaning pen to clean the print elements from end to end (the print elements are located in the thin gray line on the printhead).		
Platen Surface	Rotate the platen roller and clean it thoroughly with the cleaning pen.	After every five rolls of media (or more often, if needed) Linerless media requires more frequent cleaning	
Linerless Platen Surface	Units with linerless platens: Rotate platen & clean bearing points only. Avoid use of alcohol on the surface of linerless platens!		
Peeler bar	Clean thoroughly with the cleaning pen.	As needed	
Scraper (Linerless units only)	Clean thoroughly with the cleaning pen.	After every five rolls of media (or more often, if needed)	
Tear bar	Clean thoroughly with the cleaning pen.		
Exterior	Wipe with water-dampened cloth		
Interior	Brush/air blow. Ensure the Bar Sensor, Gap Sensor and Label Present Sensor windows are free of dust.	As needed	
Interior of units with Linerless Platens	Clean inside surfaces of Media Supports & Media Support Disks with the supplied cleaning pen or 70% isopropyl alcohol on a cotton swab.	After every five rolls of media (or more often, if needed)	

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Accessories and Contact Info

Contr

Printer

# Troubleshooting

LCD Control Panel

The top of the display shows icons indicating the status of various printer functions. Check the indicator status and refer to the referenced Troubleshooting table below.

lcon	Status	Indication
*	On	Bluetooth Link established
	Not Present	Bluetooth Link inactive
	Blinking	Connecting and Transmitting Labels
	Antenna Blinking	Looking for AP
	Antenna Blinking 1 Parenthesis Solid	Associated/Attempting WLAN Authentication
( <b>†</b> ) (†) ((†))	Antenna and 2 Parentheses Solid	Associated and Authenticated
	Antenna and 2 Parentheses Blinking	Receiving Data
	Not Present	No Radio Present
	4 Bars	>80% Charged
	3 Bars	60%-80% Charged
	2 Bars	40%-60% Charged
· · · · · · · · · · · · · · · · · · ·	1 Bar	20%-40% Charged
	0 Bars	Low Battery
	4 Bars Blinking w/ Lightning Bolt	Charging at >80% Capacity
	3 Bars Blinking w/ Lightning Bolt	Charging at 60-80% Capacity
	2 Bars Blinking w/ Lightning Bolt	Charging at 40-60% Capacity
	1 Bar Blinking w/ Lightning Bolt	Charging at 20-40% Capacity
	0 Bars w/ Lightning Bolt	Charging at <20% Capacity
	Blinking	Media Cover Open
	Blinking	Retrieving printer data
殳	Solid	Connected & Not Receiving Label Data
	Not Present	No Ethernet Connection
<b>F</b>	Blinking	Data processing in progress
	Steady	No data being processed
	Blinking	Out of Media
$\Theta$	Steady	Media present
	Blinking	Error exists (excluding Media Out and Head Latch Open)
	Not Present	No error exists
	4 Bars	802.11 signal strength > 75%
	3 Bars	802.11 signal strength = 75%</td
	2 Bars	802.11 signal strength = 50% but 25%
	1 Bar	802.11 signal strength = 25%</td
	0 Bars	No signal strength

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Printer

Cleaning and Troubleshooting

Accessories and Contact Info

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PS

Mobile

Printers

Introduction

Battery Install & Charging

Media Loading

Connect Printer/ Printer Controls

Cleaning and Troubleshooting

Accessories and Contact Info Adjustable Shoulder Strap

Hand Strap



## Belt Clip (standard on most printers)

To use: Hook the clip over your belt, and ensure that the clip is securely attached to the belt. The belt clip will pivot in all directions to allow you to move freely while wearing the printer.

Soft Case

Both the QLn220 and 320 have soft case options that also allow you to carry the printer from your belt.



## **Product Support**

For product support, and the latest versions of all customer documentation, contact Zebra Technologies at: www.zebra.com Refer to Appendix D in the QLn320 User Guide for more detailed contact information

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Printer

Cleaning and Troubleshooting

Accessories and Contact Info

Introduction

6

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