LI3608/LI3678 Ultra-Rugged Scanner

UNSTOPPABLE PERFORMANCE FOR 1D BARCODE CAPTURE

Every day, workers in your warehouse and on the manufacturing plant floor scan thousands of barcodes to ensure product quality and on-time order delivery. Their productivity depends on the quality of the scanner you put in their hands. When workers need to capture 1D barcodes, you can give them the best with the 1D corded LI3608 and cordless LI3678 scanner. Both models offer unmatched durability, superior scanning performance and unrivaled manageability, while delivering lightning-fast capture of any 1D barcode printed on a label in virtually any condition, or displayed on a screen. The ultra-rugged design is practically indestructible — ideal for punishing environments. The LI3608/LI3678 couldn't be easier and less time-consuming to deploy and manage. And when it comes to cordless technology, the LI3678 is in a class of its own, with a complete solution that includes a sealed rugged cradle, a smart battery and Zebra's Wi-Fi Friendly Mode that prevents interference with your Wi-Fi network. Get the unstoppable performance you need to maximize workforce productivity and throughput in your operations with the LI3608/LI3678 — only from Zebra.

Superior scanning performance on any 1D barcode, in any condition
Read 1D barcodes displayed on a screen or printed on a label faster than any other 1D scanner on the market— even if they are under heavy shrinkwrap or damaged, dirty or poorly printed. The advanced linear imager offers 30 percent more working range than competitive devices, and captures barcodes as fast as your workers can pull the trigger for extraordinary productivity — no need to pause between scans.

Ultra-rugged — the most indestructible design in its class
The LI3608/LI3678 is our most rugged scanner yet, with the highest drop, tumble and sealing specification in its class. The LI3608/LI3678 is built to survive an 8 ft./2.4 m drop to concrete —

23 percent more durable than any other scanner in this class. The LI3608/LI3678 operates reliably after 5,000 tumbles, simulating the real-world tumbling that occurs with a drop. Both models are dustproof, sprayproof and waterproofed to IP67 — they can be sprayed down with jetting water and even submersed in water for up to 30 minutes.

Easy management with our complimentary industry-best tools
Remotely configure scanners, upgrade firmware, format data properly for your back end and monitor PowerPrecision+ battery statistics and more with 123Scan[2] and Scanner Management Service (SMS).

Crispest aiming pattern in its class
You get the industry's sharpest, brightest aiming pattern, ideal for first-time accurate capture of barcodes in pick lists.

Three flexible feedback modes
Mix and match the feedback modes that are ideal in your environment — vibration, red and green LEDs located in an area where they are always easy to see, plus the traditional loud beep tone.

Extreme temperature rating
Built to handle extreme cold, heat and humidity, you can use the LI3608/LI3678 anywhere — even in the freezer*.

A Bluetooth model in a class of its own for superior cordless freedom
Bluetooth 4.0 (Low Energy) provides lightning fast wireless communication and maximum energy efficiency.

Our Zebra *Wi-Fi Friendly Mode* eliminates the wireless interference that Bluetooth devices can often create in your Wi-Fi environment.

The *'go anywhere' rugged cradle* offers superior versatility and durability. The LI3678 cradle is the only one in its class to offer IP65 sealing. And its industrial charging contacts withstand 250,000 insertions.

The first-in-its-class battery 'charge gauge' and Bluetooth status LED make it easy to monitor battery power and Bluetooth connectivity.

The PowerPrecision+ battery delivers the ultimate in battery power and management. You get 56 percent more scans-per-charge compared to similar models in its class, plus visibility into a wealth of battery health-related data, including charge cycles consumed, current battery status and a State of Health meter, which identifies if batteries are healthy and holding a full charge, no longer holding a full charge, or at end of life and require replacement.

THE LI3608/LI3678 — ADVANCED 1D BARCODE CAPTURE IN AN ULTRA-RUGGED SCANNER.
FOR MORE INFORMATION, VISIT **WWW.ZEBRA.COM/LI36X8** OR ACCESS OUR
GLOBAL CONTACT DIRECTORY AT **WWW.ZEBRA.COM/CONTACT**

LI3608/LI3678 Specifications Chart

PHYSICAL CHARACTERISTICS

Dimensions	Corded: 7.3 in. H x 3.0 in. W x 5.2 in. D 18.5 cm H x 7.6 cm W x 13.2 cm D Cordless: 7.3 in. H x 3.0 in. W x 5.6 in. D 18.5 cm H x 7.6 cm W x 14.2 cm D
Weight	Corded: 10.1 oz./287 g; Cordless: 13.6 oz./385 g
Input Voltage Range	Host powered: 4.5 VDC min., 5.5 VDC max. External power supply: 11.4 VDC min., 12.6 VDC max.
Operating Current	LI3608 (corded): 170 mA (typical)
Standby Current	LI3608 (corded): 40 mA (typical)
Color	Industrial Green
Supported Host Interfaces	USB, RS232, Keyboard Wedge
Battery	PowerPrecision+ 3100 mAh Li-Ion rechargeable battery
User Indicators	Direct decode indicator; LEDs; beeper; vibration

PERFORMANCE CHARACTERISTICS

Scans per Full Charge	70,000+
Illumination	Two (2) 617nm Amber LEDs
Imager Field of View	35°
Image Sensor	1,500 pixels
Minimum Print Contrast	15% minimum reflective difference
Skew/Pitch/Roll	Skew: ± 65°; Pitch: ± 65°; Roll: ± 45°

DECODE CAPABILITIES**

1D	Code 39, Code 128, Code 93, Codabar/NW7, Code 11, MSI Plessey, UPC/EAN, I 2 of 5, Korean 3 of 5, GS1 DataBar, Base 32 (Italian Pharma)

USER ENVIRONMENT

Operating Temp.	Corded: -22° F to 122° F/-30° C to 50° C Cordless: -4° F to 122° F/-20° C to 50° C
Storage Temp.	-40° F to 158° F/-40° C to 70° C
Humidity	5% to 95% condensing
Drop Specification	Withstands multiple 8.0 ft. / 2.4 m drops to concrete
Tumble Specification	5,000 tumbles @ 3.3 ft. (1 m)
Sealing	Scanner: IP65 and IP67; FLB cradle: IP65
ESD	Per EN61000-4-2, ±25 KV air discharge, ±10 KV direct discharge, ±10 KV indirect discharge
Ambient Light Immunity	0 to 10,037 Foot Candles/0 to 108,000 Lux (direct sunlight)

UTILITIES AND MAINTENANCE

123Scan[2]	Programs scanner parameters, upgrades firmware, provides scanned barcode data and prints reports. For more information, visit www.zebra.com/123Scan
Scanner SDK	Generates a fully-featured scanner application, including documentation, drivers, test utilities and sample source code. For more information, visit www.zebra.com/windowsSDK

UTILITIES AND MAINTENANCE (CONTINUED)

Scanner Management Service (SMS)	Remotely manages your Zebra scanner and queries its asset information. For more information, visit www.zebra.com/sms

WIRELESS CONNECTIVITY

Bluetooth Radio	Bluetooth Class 1, Version 4.0 (LE), serial port and HID profiles
Data Rate	3 Mbit/s (2.1 Mbit/s) for Classic Bluetooth 1 Mbit/s (0.27 Mbit/s) for Low Energy
Radio Range	Direct line of sight in open air : Class 1: Up to 300 ft. (100.0 m) Class 2: Up to 30 ft. (10.0 m)

REGULATORY

Environmental	RoHS EN 50581: 2012
Electrical Safety	**EU Safety:** EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + AC 2011 + A2: 2013 **International Safety:** IEC 60950-1: 2005 + A1: 2009 + A2: 2013 **US/Canada Safety:** UL 60950-1, second edition, CAN/CSA-C22.2 No. 60950-1-07
LED Safety	International LED Safety: IEC 62471: 2006 (Ed.1.0); EN 62471: 2008 (LED)
EMI/RFI	**IT Emissions:** EN 55022: 2010/AC: 2011 (Class B) **IT Immunity:** EN 55024: 2010 **Heavy Industrial:** EN 61000-6-2: 2005/AC:2005 **Harmonic Current Emissions:** EN 61000-3-2: 2006 + A1: 2009 + A2: 2009 (Class B) **Voltage Fluctuation and Flicker:** EN 61000-3-3: 2013 **Medical Electrical Equipment:** EN 60601-1-2: 2007/AC: 2010, IEC 60601-1-2: 2007 (Modified) **Radio Frequency Devices:** 47 CFR Part 15, Subpart B, Class B **Digital Apparatus:** ICES-003 Issue 5, Class B

WARRANTY

Subject to the terms of Zebra's hardware warranty statement, the LI3608 is warranted against defects in workmanship and materials for a period of three (3) years from the date of shipment. For complete warranty statement, go to: http://www.zebra.com/warranty

RECOMMENDED SERVICES

Zebra *OneCare* Select; Zebra *OneCare* Essential

DECODE RANGES

Symbology/Resolution	Near/Far
Code 39: 4 mil	4.0-10.0 in./10.2-25.4 cm
Code 39: 7.5 mil	1.5-19.0 in./3.8-48.3 cm
UPC: 13 mil (100%)	1.0-31.0 in./2.5-78.7 cm
Code 39: 20 mil	0-42.0 in./0-106.7 cm

*   Heated scanner holder accessory required for use in freezers.

** Refer to Product Reference Guide for complete list of symbologies.

The Zebra 3600 Ultra-Rugged Scanner Series

This family of scanners offers a model to meet virtually every need in warehousing and manufacturing:

- **LI3608/LI3678:** 1D barcode capture
- **DS3608-SR/DS3678-SR:** Standard range scanning of 1D and 2D barcodes
- **DS3608-HP/DS3678-HP:** High performance scanner captures 1D/2D barcodes over longer distances, plus OCR, photos, documents
- **DS3608-HD/DS3678-HD:** Captures high-density 1D/2D barcodes
- **DS3608-DP/DS3678-DP:** Capture of Direct Part Marks (DPM)
- **DS3608-ER/DS3678-ER:** All-range 1D/2D barcode capture

NA and Corporate Headquarters
+1 800 423 0442
inquiry4@zebra.com

Asia-Pacific Headquarters
+65 6858 0722
contact.apac@zebra.com

EMEA Headquarters
zebra.com/locations
mseurope@zebra.com

Latin America Headquarters
+1 847 955 2283
la.contactme@zebra.com

socket mobile®

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MODEL D750
DURASCAN®

Ergonomic, Elegant and Rugged

Built for harsh environments in warehouse, distribution and industrial manufacturing. Stylish enough to be showcased in boutique retail environments.

The DuraScan Model D750 barcode scanner features great ergonomics fitting perfectly in your hand for comfortable and extended use. Light and small enough to fit in your pocket.

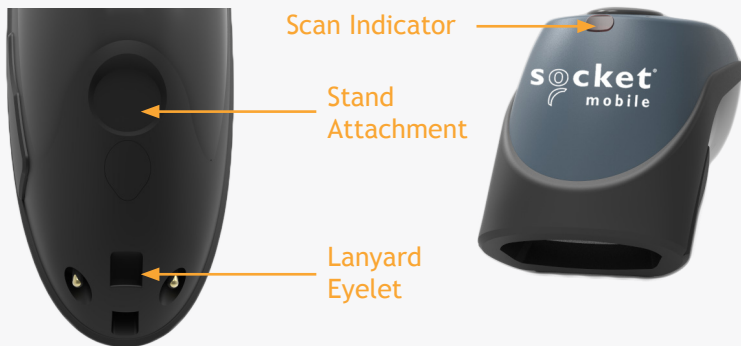Designed for mobility and wireless scanning with Bluetooth® connection up to 330 ft (100 m).

Made for
iPod iPhone iPad

Bluetooth™

Certified by Apple® for iOS devices (iPad®, iPhone®, iTouch®) and compatible with Android and Windows®.

Battery Status LED

Scan Indicator

Bluetooth LED

Trigger Button

Made with Antimicrobial Material

On/Off Button

Scan Indicator
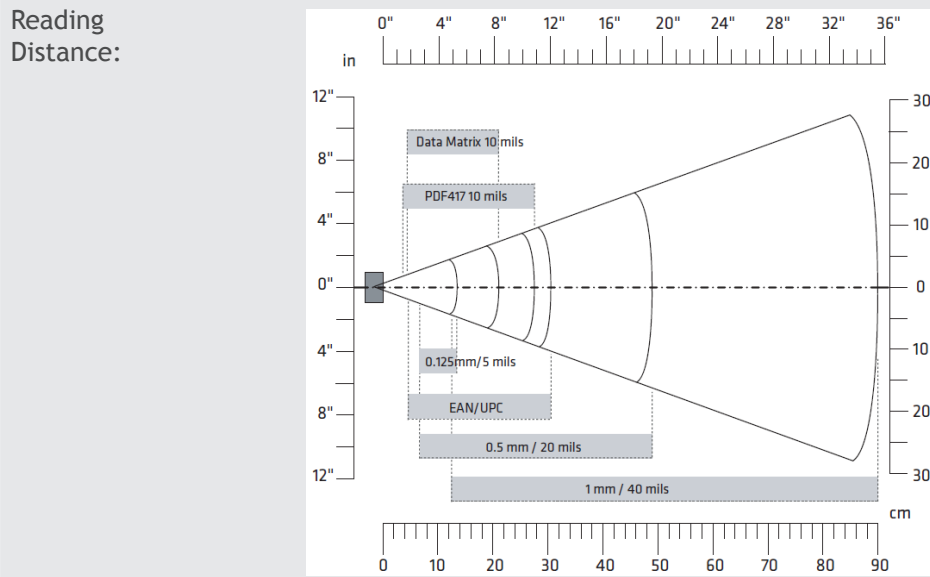
Stand Attachment

Lanyard Eyelet

Features and Benefits

- **Scanning** – Fast 2D & 1D omni-directional barcode scanning with highly visible and safe LED aimer
- **Exceptional ergonomics** – Small, light and fits perfectly in the hand for comfortable use over extended periods of time
- **Long lasting battery** - Power to last for two 8 hour shifts
- **User feedback** - audible tones, hand vibration and intuitive LED indicators
- **Rugged Design** – Protection rating of IP54 for dust and water splashing protection. Withstands multiple drops to concrete and repeated tumbles.
- **Protective Material** - Made with antimicrobial additives for protection against harmful microbes.
- **Basic Mode (default)** - No software installation required when using the scanner in Bluetooth HID mode
- **Application Mode** - Improves business productivity with faster, efficient and reliable data transfer over Bluetooth. Leverage Application Mode functionality by integrating Socket Mobile's SDK in your app.
- Designed and made in the USA

Supported Barcode Symbologies:	**1D Symbologies:** EAN/UPC, GS1 Databar (limited expanded & omni-directional), Code 39, Code 128, UCC/EAN 128, ISBN, ISBT, Interleaved/Matrix/Industrial and Standard 2 of 5, Codabar, Code 93/93i, Code 11, MSI, Plessey, Telepen, postal codes (Australian Post, BPO, Canada Post, Dutch Post, Japan Post, PostNet, Sweden Post) **2D Symbologies:** Data Matrix, PDF417, Micro PDF 417, Codablock, Maxicode, QR, Aztec, HAN XIN
Scan Angle:	39° (Horizontal) - 25.5° (Vertical)
Optical Resolution:	752 (H) x 480 (V) pixels, 256 gray levels
Print Contrast:	Down to 30%
Reading Distance:	

1D codes 6 to 93.6 cm (2.36 in to 36.85 in)
2D codes 5.0 to 40 cm (1.97 in to 15.75 in)
Depends on symbol size, symbology, label media, W-N ratio scan angle.

Technology:	2D/1D Barcode Imager with highly visible LED aimer
Light Source:	Highly Visible white LED.
Aimer:	617 nm Red LED

Battery:	1400 mAh Lithium - Ion Battery
Charge Time:	6 Hours
Battery Life - Per Full Charge:	Standby time: over 30 hours Active Scan Time: 70,000 scans within 9 hours (based on 2 scans every 1 second) or 14,000 scans within 16 hours (calculation based on 1 scan every 4 seconds) *Note: Battery life varies depending on ambient temperature, ambient light, and age of battery.*

Bluetooth Radio:	Class 1 Bluetooth, version 2.1 + EDR (Enhanced Data Rates) with 56-bit data encryption
Bluetooth Range:	Up to 100 m (330 ft.) depending on environment, range limit is usually due to the Host Device (phone, tablet or notebook)
Bluetooth Profiles:	Basic Mode - Human Interface Device (HID)*, Application Mode - Serial Port Profile (SPP) and Application Mode - MFi-SPP. Some Operating Systems or smartphone/tablet models may support only one profile. *By default, the scanner is set to Basic Mode (HID).*

PHYSICAL CHARACTERISTICS

Dimensions:	5.2 (L) x 1.5 (W) x 1.6 (H) in (132.2x 37.1 x 40.1 mm)
Weight/Mass:	3.8 oz. (108g)
LEDs:	Scan LED: Green and Red Bluetooth LED: Blue Battery LED: Green, Amber & Red
Buttons:	Trigger Button: Scan Power Button: On/Off (enabled on-screen keyboard)

USER ENVIRONMENT

Ambient Light:	From 0 to 100 000 lux From pitch black to direct sun light
Operating Temperature:	-20° to 50° C (-4° to 122° F)
Storage Temperature:	-40° to 70° C (-40° to 158° F)
Relative Humidity:	95% at 60° C (140° F) (non-condensing), 4 days
Sealing:	IP54 (Ingress Protection rating for dust and water) EN60529
Drop Specifications:	Multiple 5 ft. drops to concrete
Tumble Specification:	250 cycles at 1.64 ft. (0.5 m) (500 drops), IEC60062-2-31

OPERATING SYSTEM SUPPORT

Android OS - Basic Mode (HID)* & Application Mode (SPP)	Mac OS - Basic Mode (HID)* only
Apple iOS - Basic Mode (HID)* & Application Mode (MFi-SPP)	Windows 10, 8, and 7 - Basic Mode (HID)* & Application Mode (SPP)
Linux - Basic Mode (HID)* only	Windows Mobile, Embedded Handheld - Basic Mode (HID)* & Application Mode (SPP)

By default the scanner is in Basic Mode (HID).

Certified by Apple® for iOS devices (iPad®, iPhone®, iTouch®) and compatible with Android and Windows®.

CERTIFICATION & REGULATORY

Bluetooth SIG:	Declaration ID: D030473 QD ID: 82009
Electrical Safety:	Certified to IEC 60950-1, UL 60950-1, CAN/CSA C22.2
Environmental:	Environmental: RoHS EN 50581
EMI / RFI:	FCC Part 15 Class C, RSS 210, iCES 003, C-Tick, CISPR 22, CE EN55022, EN55024, TELEC FCC ID: LUBD750 IC ID: 2925A-D750
LED Safety:	IEC 60825-1, EN 60825-1

WARRANTY

Scanner:	Standard one year limited warranty
Accessories:	90 days
Extended Warranty: (sold separately)	www.socketmobile.com/socketcare

Retail/Point of Sale	Warehouse management
Office use	Shipping & Receiving
Healthcare	Field Sales/Service
Mobile Tracking	

SKU# CX3359-1681 - PACKAGE INCLUDES

DuraScan D750 2D/1D Barcode Imager	
USB Type-C to USB Type-A Charging Cable	
USB Power Supply	
Durable Lanyard	

OPTIONAL ACCESSORIES

QX Stand	SKU# AC4076-1538	
Charging Cradle	SKU# AC4102-1695	

*These accessories are also compatible with Series 7 Scanners

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- Legacy Technology Services is a leading nationwide provider of mobile computing, barcode, printers and point of sale equipment and services.

- For over a decade, thousands of clients across North America have trusted us to provide equipment from leading manufacturers backed by the services to support them.

Latest Hardware from top manufacturers
- Legacy handles virtually every major manufacturer of mobile computing, barcoding and point of sale equipment.

Expert Repair and Maintenance services
- Legacy is one of the best repair facilities in North America

Discontinued product sourcing
- They don't make it anymore? Our inventory also includes manufacturer close-outs and discontinued equipment to support our clients legacy infrastructure.

Trade-in and Disposal services
- That old equipment laying around your facility may still have some value. Legacy routinely purchases equipment from our clients around the globe.
  - Data destruction
  - Hardware disposal
  - Auditing services

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- Dedicated, highly trained account managers are here to answer all your questions and provide top notch service.

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Legacy, Inc.,
160 West Road,
Ellington, CT 06029

Toll Free: 866-271-9891
Fax: 888-522-4684