

LS3578 Rugged Cordless Scanner Series



Cordless, Bluetooth Enabled Scanners for the Harshest Environments

The LS3578 series of Bluetooth®-enabled, rugged scanners offers cordless laser barcode scanning to meet a wide range of Industrial application requirements. Convenient Bluetooth® wireless technology delivers superior, secure and reliable scanning anywhere in the workplace to help boost productivity and profitability while reducing Total Cost of Ownership (TCO). The LS3578-ER provides the greatest scanning range of any available rugged scanner, scanning items from as close as 4 inches (10 cm) to as far away as 45 feet (13.7 m) while the LS3578-FZ features fuzzy logic scanning technology for reading damaged, poor quality or hard-to-read ID barcode labels in the most rugged industrial environments. Finally, both models are ergonomically designed for optimal ease of use during long shifts and are built to withstand everyday use in the most demanding environments.

Features & Benefits

Integrated Bluetooth® Technology

- The LS3578 series cordless scanners provide reliable and secure wireless data transmission between the scanner and host; including Psion Teklogix Vehicle Mount and Hand held computers
- Integrated Bluetooth eliminates need for base station and cable and offers lower TCO

Wide Scanning Range

Reduces Worker Fatigue and Increases Productivity

- LS3578-ER scans items as far as 45 feet and as close as 4 inches
- Bright laser diode (both models) ensures precise aiming at long ranges

High Performance Scanners with Fuzzy Logic Decode

- LS3578-FZ features fuzzy logic technology for accurate and fast reading of all ID barcodes including poorly printed, damaged, dirty and low contrast barcodes
- Also supports reduced space symbologies

Cordless Scanning

Offers True Mobility and Increases Productivity and Efficiency

- Cordless option allows for unrestricted barcode scanning and reduces downtime that typically results from equipment breakdowns
- Provides real time, mobile barcode data collection

Essential Ruggedness

Withstands everyday use in the most rugged environments

- Withstands drops from 6.5 feet to polished concrete
- Includes an IP65 rating, protecting against dust and impervious to water sprayed from all directions.
- Ergonomic design delivers optimal comfort during long shifts

Typical Applications

- Ports & Container Yards
- Warehousing & Distribution
- Airports
- Manufacturing Plants



information in motion

LS3578 Rugged Cordless Scanner Series

Specifications*

REFERENCES

- Description: Ruggedized, Cordless Scanners
- Model Number: LS3578 – ER and LS3578 – FZ

MODEL VARIANTS

- LS3578 – ER : Extended Range
- LS3578 – FZ : Fuzzy Logic

PERFORMANCE CHARACTERISTICS

Scanner Type: Retrocollective

Light Source: 650 nm visible laser diode

Scan Repetition: 36 scans per second typical

Minimum Element Width:

LS3578-ER: 0.007 in. (0.191mm)

LS3578-FZ: 0.005 in. (0.127mm)

Nominal Working Distance:

LS3578-ER: 4 inches to 45 ft

LS3578-FZ: See decode zone

Print contrast: (both models): 25% minimum reflective difference

Roll (Tilt)¹: LS3578-ER: +/- 20 degrees from normal

LS3578-FZ: +/- 10 degrees from normal

Pitch² (both models): +/- 65 degrees from normal

Skew (Yaw)³:

LS3578-ER: +/- 60 degrees from normal

LS3578-FZ: +/- 50 degrees from normal

Decode Capability (both models): UPC.EAN, UPC.EAN wit Supplemental, UCC.EAN 128, JAN 8 & 13, Code 39, Code 39 Full ASCII, Code 39 Trioptic, Code 128, Code 128 Full ASCII, Codabar (NW7), Interleaved 2 of 5, Discrete 2 of 5, Code 93, MSI, Code 11, Code 32, Bookland EAN, IATA, UCC/EAN RSS and RSS variants

Interfaces Supported:

LS3578-ER: RS232, Keyboard Wedge, Wand Emulation, Scanner Emulation, IBM 468X/469X, USB and Synapse

LS3578-FZ: RS232, Keyboard Wedge, IBM 468X/469X, USB

and Synapse

POWER MANAGEMENT

- Battery: 2200 mAh Lithium Ion Battery
- Battery Charge Time: Fully charged in 3 hours

USER ENVIRONMENT

- **Operating Temperature:** -4° to 122°F (-20° to 50°C)
- **Storage Temperature:** -40° to 140°F (-40° to 60°C)
- **Humidity:** 5% to 95% relative humidity, non-condensing
- **Rain/Dust:** IP65
- **Drop Specifications:** Withstands repeated 6.5-ft. (2-m) drops to concrete

USER ENVIRONMENT (continued...)

- **# of Cradle Insertions:** 250,000+ insertions
- **Ambient Light Immunity:** Immune to direct exposure of normal office and factory lighting conditions, as well as direct exposure to sunlight
- **Electrostatic Discharge:**
LS3578-ER: Conforms to 15 kV air discharge and 8 kV of contact discharge
LS3578-FZ: Conforms to 20 kV air discharge and 8 kV of contact discharge

PHYSICAL DIMENSIONS AND WEIGHT

- **Dimensions (both models):**

7.34 in. H x 4.82 in. W x 2.93 in. D

(18.65 cm H x 12.25 cm W x 7.43 cm D)

- **Weight Including Lithium Ion Battery (both models):** 1 lb (420 g)

CRADLES

	STB 3508 & FLB 3508	STB 3578 & FLB 3578
Power		
Requirements:	4.75 – 14VDC	4.75 – 14VDC
Typical Current Draw:	10 mA	105 mA @5V
Not Charging:		45 mA @9V
Fast Rate Charge:	915 mA @5V 660 mA @9V	915 mA @5V 660 mA @9V
Slow Rate Charge:	480 mA @5V 345 mA @9V	480 mA @5V 345 mA @9V

RADIO SPECIFICATIONS

- Bluetooth, Class 2, Version 1.2, Serial port and HID Profiles
- 2.402 to 2.480 GHz adaptive frequency hopping (co-existence with 802.11 wireless networks)
- Data rate: 720 kbps

REGULATORY APPROVALS

- Input Transient Protection: IEC 1000-4-(2,3,4,5,6,11)
- EMI/RFI: FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Japan VCCI/ MITI/Dentori
- Laser safety: IEC825-1 Class 2

*Specifications are subject to change without notice.

Pision Teklogix is a trademark of Pision Teklogix Inc. Other product ranges mentioned in this document may be trademarks of Pision Teklogix Inc. or trademarks or registered trademarks of other software, hardware, or service providers and are used herein for identification purposes only.