

Flexible and rugged family of hand-held scanners ideal for tough industrial environments



The LS3400 Scanner family consists of four rugged scanners rated at IP65 and suited to scanning ID bar codes in industrial environments.

LS3408ER: This extended range tethered laser scanner has an exceptionally wide working range from 10cm (4 inches) to 14.6m (45 feet).

LS3408FZ: Fuzzy logic technology allows this tethered laser scanner to read dirty, damaged or poorly printed bar codes from 4 inches (10cm) to 84 inches (213.4cm).

LS3478ER: This cordless extended range laser scanner provides all the functionality of the LS3408ER without the cord.

LS3478FZ: This cordless fuzzy logic scanner is an ideal solution to reading dirty, damaged or poorly printed ID bar codes.



ADVANTAGES

LS3408ER - Flexible working range up to 45 feet

- Rugged ergonomic IP65 sealed industrial design
- Bright laser diode ensures precise aiming at long distances
- Multiple on board interfaces ensure connectivity to existing devices.

LS3408FZ - Fuzzy logic improves bar code scanning performance

- Ergonomic rugged design withstands multiple 2m/6.5 drops to concrete
- Supports reduced space symbologies (RSS)
- Multiple connectivity options ensure plug and play functionality

LS3478ER - Extended range scanner provides excellent depth of field

- Cordless option allows unrestricted bar code scanning
- 2.4 Mhz Bluetooth radio extends wireless connectivity up to 100 meters
- Up to 4 scanners can communicate with a single cradle for maximum efficiency

LS3478FZ - Fuzzy logic cordless scanner provides adaptive scanning of dirty, damaged or poorly printed bar codes

- 5% to 95% non-condensing humidity allows the scanner to move freely within warm or cold environments
- Operating temperature from extreme cold to extreme heat - 20°C to 50°C (-4°F to 122°F)
- Lithium ion battery is fully charged within 3 hours, limiting unit downtime



LS3400 Laser Scanner Family

Specifications

PHYSICAL CHARACTERISTICS (ALL MODELS)

- Dimensions: 18.65 cm H x 12.25 cm W x 7.43 cm 7.34 in. H x 4.82 in. W x 2.93 in. D
- Weight (without cable): 356 gm/12.56 oz.
- Power Requirements: 4.5 – 14VDC
- Stand-by Current: 50mA
- Power Sources: Depending on host:
 - Host power
 - External power supply
- Color: Twilight Black/Yellow

PERFORMANCE CHARACTERISTICS (ALL MODELS)

- Scanner type: Retrocollective
- Light source: 650 nm visible laser diode
- Scan repetition: 36 scans per second typical
- Print Contrast: 25% minimum reflective difference
- Decode Capability: UPC.EAN, UPC.EAN with 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: RS232, Keyboard Wedge, Wand Emulation, Scanner Emulation, IBM 468X/469X, USB and Synapse

USER ENVIRONMENT (ALL MODELS)

- Humidity: 5% to 95% relative humidity, noncondensing
- Sealing: Sealed to IP65 specifications
- Drop specifications: Unit functions normally after repeated 6.5-ft. (2-m) drops to concrete

REGULATORY (ALL MODELS)

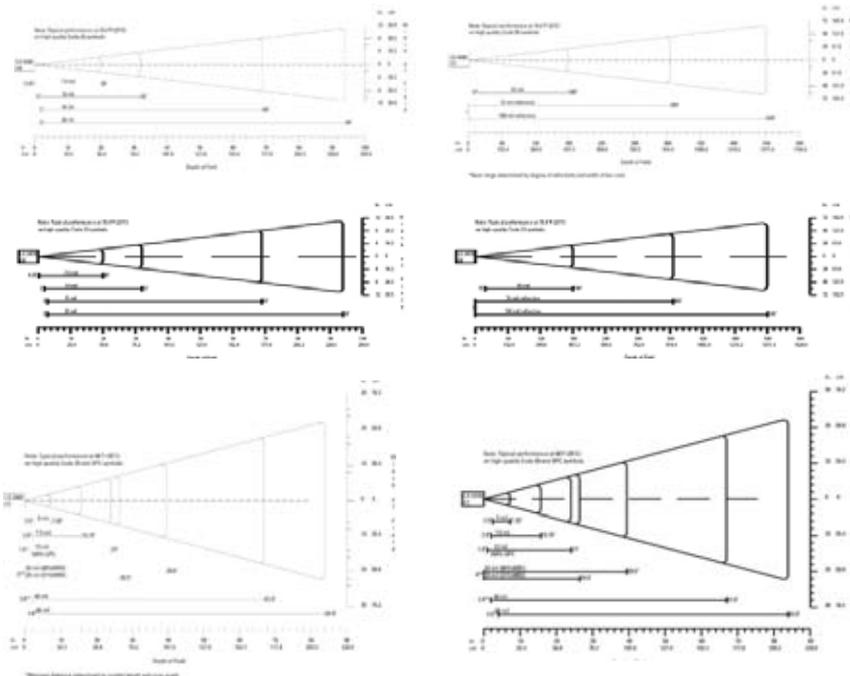
- Input transient protection: IEC 1000-4-(2,3,4,5,6,11)
- EMI/RFI: FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive,
- Japan VCCI/MITI/Dentori
- Laser safety: IEC825-1 Class 2

*Specifications are subject to change without notification.

MODEL SPECIFIC SPECIFICATIONS

	LS3408 FZ	LS3408 ER	LS3478 FZ	LS3478 ER
Operating Temperature	-30° to 50°C (-22° to 122°F)	-30° to 50°C (-22° to 122°F)	-20° to 50°C (-4° to 122°F)	-20° to 50°C (-4° to 122°F)
Storage Temperature	-40° to 70°C (-40° to 158°F)	-40° to 70°C (-40° to 158°F)	-40° to 60°C (-40° to 140°F)	-40° to 60°C (-40° to 140°F)
Ambient Light Immunity				
Indoor:	Indoor: 450 ft. candles/ 4,842 LUX			
Outdoor:	Outdoor: 8,000 ft. candles/86,080 LUX	Outdoor: 4,000 ft. candles/43,040 LUX	Outdoor: 8,000 ft. candles/86,080 LUX	Outdoor: 4,000 ft. candles/43,040 LUX
Electrostatic discharge	Conforms to 20 kV air discharge and 8 kV of contact discharge	Conforms to 20 kV air discharge and 8 kV of contact discharge	Conforms to 20 kV air discharge and 8 kV of contact discharge	Conforms to 15 kV air discharge and 8 kV of contact discharge

DECODE ZONE (PER MODEL)



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