Symbol LS3478-ER

Rugged cordless scanner

Capture bar codes over a wide range of distances

With the rugged cordless Symbol LS3478-ER scanner, you get the greatest working range of any available rugged scanner. You'll speed processes by allowing your employees to scan items on pallets as close as 4 inches (10 centimeters) away and shelves as far away as 45 feet (13.7 meters). In addition, your employees will be able to quickly switch from reading bar codes on inventory to capturing smaller symbologies on bar code menus and pick lists.

In the yard, warehouse, distribution center, manufacturing plant or retail store, these cordless handheld devices offer superior performance and reliability as well as a user-friendly form factor to help your employees comfortably operate the scanner even over eight-hour shifts. Multiple on-board interfaces ensure you'll be able to use the data capture devices with existing hosts, while giving you the flexibility to upgrade your systems without having to buy new scanners. You'll lay the foundation for an advanced data capture solution that grows with you as your business needs evolve.

Eliminate the cord, not performance

Your warehouse, manufacturing and even retail employees operate more efficiently when you eliminate the cable between the device and the host. Your forklift operator is able to drive to an aisle, scan a pallet up to 45 feet away and capture the data, without being cabled to the host. You save time and

keep supply chain inventory up to date at all times. And, you've probably noticed the cable is a common point of failure in handheld devices operating in industrial facilities. Having no cord translates into less downtime from cable breakdowns.

Minimize equipment downtime

As innovative as it is rugged, the Symbol LS3478-ER delivers ergonomic and operational features for scan-intensive industrial applications under the harshest operating conditions. During industry tumble tests, it continued to provide reliable performance when subjected to multiple 6.5-foot (2-meter) drops to concrete. An IP65-rated seal makes it impervious to dust and water, and its exit window is scratch-resistant and recessed for the highest level of durability. As a result, you avoid unnecessary equipment downtime or expensive equipment replacement costs.

Provide versatility for your industrial applications

When you require quick scanner access and convenient out-of-the-way storage, such as on a forklift within a warehouse, the Symbol LS3478-ER features a built-in metal hook for attachment to a pulley. Workers will be able to access the scanner easily and stow it quickly when they're finished.

Working around noisy machinery or in poorly lit areas, your operators aren't always able to see or hear scanner feedback to quickly determine if the scans

Bright LED and beeper with adjustable volume
Ensure positive user feedback in noisy environments with multiple modes of confirmation, so employees don't waste time trying to determine if a scan has been completed

Multi-point communication
Four scanners communicate to a single cradle for increased productivity

Bright 650 nm laser aiming dot
Delivers clearly visible line for more accurate scanning

Advanced data formatting
Eliminates costly modifications to the host software

Universal cable set
Allows for easy replacement and upgrades

Multiple on-board interfaces
Ensures flexible connectivity with different hosts, enabling you to maximize use of your existing technology

have completed. Bright LEDs and an adjustable-volume beeper on the Symbol LS3478-ER ensure that decode feedback is clearly visible and audible to users, saving valuable worker time.

Protect your investment with comprehensive services and support
Even the most durable scanners require a support plan. That's why Motorola's Enterprise Mobility Services cover every aspect of your LS3478-ER — to ensure all of your support needs are met. Motorola's Service from the Start Advance Exchange Support provides next-business-day delivery of a replacement device for true service peace of mind. This offer also includes Motorola's unique Comprehensive Coverage, which extends normal wear and tear to cover accidental damage to exit windows, scan elements and more at no extra charge — virtually eliminating your unforeseen repair expenses.

For more information on the cordless rugged Symbol LS3478-ER handheld scanner and the full line of accessories, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us at www.symbol.com/ls3478er

Symbol LS3478 Specifications

Physical Characteristics

Dimensions:	7.34 in. L 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 LiON battery)	14.8 oz. (420 gm)
Battery:	2200 mAh Lithium Ion Battery
Battery charge time:	Fully charged (100%) in 3 hours
Color:	Twilight Black and Yellow

Performance Characteristics

Scanner type:	Retrocollective
Light source:	650 nm visible laser diode
Scan repetition:	36 scans per second typical
Minimum element width:	7.5 mil (0.191 mm)

Nominal working distance:	See decode zone
Print contrast:	25% minimum reflective difference
Roll (Tilt)[1]:	+/- 10 degrees from normal
Pitch[2]:	+/- 65 degrees from normal
Skew (Yaw)[3]:	+/- 60 degrees from normal
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

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, noncondensing
Sealing:	Sealed to IP65 specifications
Drop specifications:	Unit functions normally after repeated 6.5-ft. (2-m) drops to concrete
Ambient light immunity:	Immune to direct exposure of normal office and factory lighting conditions, as well as direct exposure to sunlight. Indoor: 450 foot candles/4,842 LUX Outdoor: 4,000 foot candles/43,040 LUX
Electrostatic discharge:	Conforms to 15 kV air discharge and 8 kV of contact discharge

Cradles	STB 3408 and FLB 3408	STB 3478 and FLB 3478
Power requirements:	4.75 – 14 VDC	4.75 – 14 VDC
Typical current draw:		
Not charging	10 mA	105 mA @5V 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 link	N/A	Bluetooth class 1 (2.4 GHz), Class 2

Radio specification

Radio range:	100 meters direct line of sight; adaptive frequency hopping allows co-existence with 802.11
Frequency:	2.4 GHz

Regulatory

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

Warranty

The Symbol LS3478-ER is warranted against defects in workmanship and materials for a period of 3 years (36 months) from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions. See full warranty for details.

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