LS3478-ER Scanner

Rugged cordless scanner

DATA SHEET

Capture bar codes over a wide range of distances

With the rugged cordless 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 onboard 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

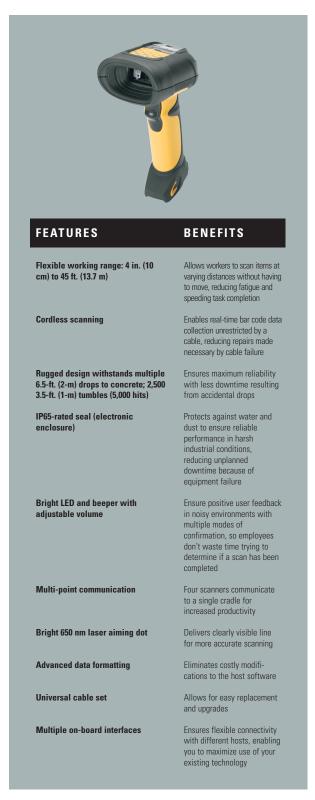
Your warehouse, manufacturing and even retail employees operate more efficiently when you eliminate the cable between the device and the host. Your forklift operator is able to drive to an aisle, scan a pallet up to 45 feet away and capture the data, without being cabled to the host. You save time and 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 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 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 have completed. Bright LEDs and an adjustable-volume beeper on the LS3478-ER ensure that decode feedback is clearly visible and audible to users, saving valuable worker time.

End maintenance worries with a full suite of services and support

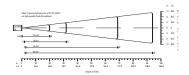
Even the most rugged scanners need a support plan to cover maintenance. That's why Symbol covers every aspect of your mobility solution — from network design to ongoing operations providing unsurpassed breadth and depth of coverage to ensure all of your services and support needs are met.

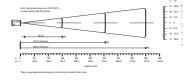
Symbol Services offer:

- Professional planning, assessment and implementation services, forming the foundation of a successful solution
- · A global team with unrivaled industry and product expertise, focused on Symbol product support
- Responsive customer support and maintenance services, ensuring your system operates seamlessly and efficiently

For more information on the cordless rugged 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

- 1 Roll (Tilt): Controlled by rotating the wrist clockwise or counterclockwise
- ² Pitch: Controlled by dropping or raising the wrist
- 3 Skew (Yaw): Controlled by rotating the wrist from left to right or vice versa





LS3478-ER specification highlights

Retrocollective

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

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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

	Outuout. 4,000 foot candles/45,040 LOX	
Electrostatic discharge	Conforms to 15 kV air discharge and 8 kV of contact discharge	

Cradies	STB 3408 and FLB 3408	STB 34/8 and FLB 34/8
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	915 mA @5V
	660 mA @9V	660 mA @9V
Slow rate charge	480 mA @5V	480 mA @5V
	345 mA @9V	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 2.4 GHz	
Frequency		
Regulatory		
Input transient protection	IEC 1000-4-(2,3,4,5,6,11)	
FMI/RFI	FCC Part 15 Class R. ICES,003 Class R. Furongan I Injun FMC Directive Janan VCCI/MITI/Dentori	

IEC825-1 Class 2 Laser safety Warranty

The LS3478-ER is warranted against defects in workmanship and materials for a period of 3 years (36 months) from date of shipment,

Decode zone

LS3478-ER decode zone

About Symbol Technologies

Symbol Technologies, Inc., The Enterprise Mobility Company™, is a recognized worldwide leader in enterprise mobility, delivering products and solutions that capture, move and manage information in real time to and from the point of business activity. Symbol enterprise mobility solutions integrate advanced data capture products, radio frequency identification technology, mobile computing platforms, wireless infrastructure, mobility software and world-class services programs under the Symbol Enterprise Mobility Services brand. Symbol enterprise mobility products and solutions are proven to increase workforce productivity, reduce operating costs, drive operational efficiencies and realize competitive advantages for the world's leading companies. More information is available at www.symbol.com



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