## DS3478-SF Scanner

## Rugged cordless digital scanner

DATA SHEET

### Capture bar codes with laser-like precision

Symbol's rugged DS3478-SF cordless digital scanner uses digital imaging technology to accurately capture all types of one-dimensional (1D) and two-dimensional (2D) bar codes while offering the high performance typically found only in laser scanners. With the DS3478-SF, you benefit from a scanning solution designed specifically for fast-paced production environments. The DS3478-SF comes equipped with charge coupled device (CCD) image sensors, which allow them to more accurately capture and process bar codes at a faster pace than other digital scanners. In addition, the scanner's omni-directional scanning functionality lets operators quickly capture bar codes from any angle, eliminating the need to line up bar codes with laser lines. The DS3478-SF has the widest working range of any scanner in its class. Its two-position smart focus technology, unique to Symbol, allows you to read bar codes regardless of the size or density of the code. This means this single device works well for all your scanning needs.

### Eliminate the cord, not performance

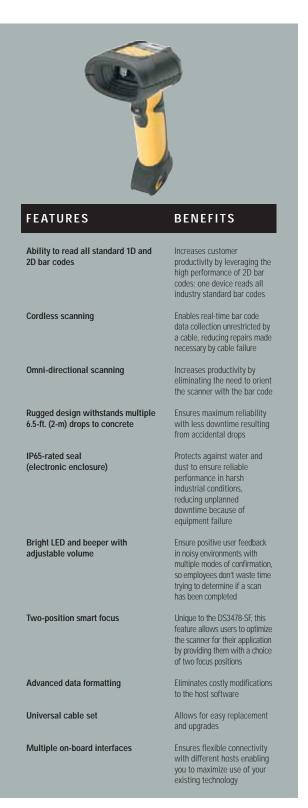
Your warehouse, manufacturing and even retail employees operate more efficiently when you eliminate the cable between the device and the host. And, you've probably noticed the cable is a common point of failure in handheld devices operating in industrial facilities. Having no cord translates into fewer repairs and less downtime from cable breakdowns.

## Minimize equipment downtime

As innovative as it is rugged, the DS3478-SF delivers the ergonomic and operational features for scan-intensive industrial applications under the harshest operating conditions. During industry tumble tests, it continued to provide reliable performance even when subjected to multiple drops of 6.5 feet (2 meters) 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.

### An investment for now and the future

The DS3478-SF doesn't just provide you with a scanning solution that meets current and future needs — it'll help protect your past investments as well. The DS3478-SF offers the technology you need to scan newer bar code symbologies such as 2D bar codes as well as 1D bar codes. In addition, the DS3478-SF includes a multi-interface allowing it to work with a variety of hosts. With the DS3478, you'll choose the scanner that is right for you — without having to worry about making a large investment in your overall architecture.





# Provides versatility for your industrial applications

Working around noisy machinery and in poorly lit areas, your operators aren't always able to see or hear scanner feedback to quickly determine if scans have completed. Bright LEDs and an adjustable-volume beeper on the DS3478-SF 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 services, ensuring your solution operates seamlessly and efficiently

For more information on the cordless rugged DS3478-SF handheld scanner and the full line of accessories, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us at <a href="https://www.symbol.com/ds3478sf">www.symbol.com/ds3478sf</a>

### DS3478-SF specification highlights

#### Physical characteristics

Physical characteristic	:S	
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 (without cable)	14.6 oz. (414 gm)	
Battery	2200 mAh Lithium Ion Battery	
Battery charge time	Fully charged (100%) in 3 hours	
Color	Twilight Black and Yellow	
Performance character	ristics	
Light source	650 nm visible laser diode	
Resolution	640 x 480	
Minimum element width	5 mil (0.127 mm)	
Nominal working distance	See decode zone	
Print contrast	25% minimum reflective difference	
Roll (Tilt)	+/- 50 degrees from normal	
Pitch <sup>2</sup>	+/- 60 degrees from normal	
Skew (Yaw) <sup>3</sup>	+/- 180 degrees from normal	
1D Codes	UPC.EAN, UPC.EAN with Supplementals, 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	
2D codes	PDF417, microPDF417, Maxicode, Data Matrix (ECC 2000), Composite Codes, QR Code U.S. Postnet, U.S. Planet, U.K. Postal, Japan Postal, Australian Postal, Dutch Postal	
Interfaces supported	RS232, Keyboard Wedge, Wand Emulation, Scanner Emulation, IBM 468X/469X, USB and Synapse	
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User environment		
Operating temperature	32° to 122°F (-0° 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:	
	Outdoor: 10.000 foot-candles/107.600 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	4.75 – 14 VDC	4.75 - 14 VDC
	10 mA	105 mA @5V
Not charging	IUIIIA	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.	
Frequency	2.4 GHz	
Regulatory	IEC 1000 4 (2.2 4 F / 11)	
Input transient protection EMI/RFI	IEC 1000-4-(2,3,4,5,6,11) FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Japan VCCI/MITVDentori	
	CDRH Class II, IEC Class 2	
Laser safety	CURTI CIASS II, IEC CIASS Z	

The DS3478-SF 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.

## **About Symbol Technologies**

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TEL: +1.800.722.6234/+1.631.738.2400 FAX: +1.631.738.5990 For Asia Pacific Area

Symbol Technologies Asia, Inc.

(Singapore Branch)
Asia Pacific Division
230 Victoria Street #12-06/10
Bugis Junction Office Tower
Singapore 188024
TEL: +65.6796.9600
FAX: +65.6796.7199

For Europe, Middle East and Africa **Symbol Technologies** EMEA Division Symbol Place, Winnersh Triangle

Berkshire, England RG41 5TP TEL: +44.118.9457000 FAX: +44.118.9457500 For North America, Latin America and Canada

Symbol Technologies
The Americas
One Symbol Plaza
Holtsville, NY 11742-1300
TEL: +1.800.722.6234/+1.631.738.2400
FAX: +1.631.738.5990



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Warranty

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<sup>&</sup>lt;sup>1</sup> Roll (Tilt): Controlled by rotating the wrist clockwise or counterclockwise

<sup>&</sup>lt;sup>2</sup> Pitch: Controlled by dropping or raising the wrist

<sup>&</sup>lt;sup>3</sup> Skew (Yaw): Controlled by rotating the wrist from left to right or vice versa