Symbol DS3478 Series

Rugged cordless digital scanners

FEATURES

Ability to read all standard 1D and 2D bar codes
Increases productivity by leveraging the high performance of 2D bar codes: one device reads all industry standard bar codes

Ability to capture high density bar codes (HD unit only)
Increases productivity by enabling users to read high density 2D matrix codes in addition to all industry-standard bar codes.

Ability to read a wide variety of DPM marks (DPM unit only)
Enhances quality processes and improves lifetime product traceability

Cordless scanning
Cable-free convenience also reduces repairs due to cable failure

Capture bar codes, images and direct part marks with laser-like precision

The Symbol DS3478 Series of rugged, cordless digital scanners uses digital imaging technology to accurately read a wide variety of one-dimensional (1D) and two-dimensional (2D) bar codes as well as direct part marks (DPM) while offering the high performance typically found only in laser scanners. Available in three models, the DS3478-SF is ideal for capturing one-dimensional (1D) and two-dimensional (2D) bar codes. If you also need to capture high density 2D matrix codes, choose the DS3478-HD. For direct part marks, select the DS3478-DP.

Designed specifically for fast-paced production environments, the DS3478 Series is equipped with charge coupled device (CCD) image sensors, which enable faster and more accurate data capture and processing than other digital scanners. The wide working range and two-position smart focus technology, unique to Motorola, provides the flexibility to meet scanning needs in a wide range of applications and environments. In addition, the omni-directional scanning functionality lets operators quickly capture bar codes and marks from any angle.

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 Symbol DS3478 Series 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.

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 Symbol DS3478 Series ensure that decode feedback is clearly visible and audible to users, saving valuable worker time.

An investment for now and the future

In addition to the productivity-enhancing features you need to keep business moving, the DS3478 Series provides you with investment protection. Onboard

Omni-directional scanning
Increases productivity by eliminating the need to orient scanner and bar code

Rugged design withstands multiple 6.5-ft./2 m drops to concrete
Ensures maximum reliability with less downtime resulting from accidental drops

IP65-rated sealing
Protects against water and dust for reliable performance in harsh industrial conditions

Bright LED and beeper with adjustable volume
Multiple confirmation modes for positive user feedback in noisy environments

Two-position smart focus
Unique to the Symbol DS3478 Series, provides two focal positions to optimize application performance

Advanced data formatting
Eliminates costly modifications to the host software

Multiple on-board interfaces and universal cable set
Ensures flexible connectivity with different hosts; enables easy upgrading of hosts and cable replacement

support for multiple interfaces, a standard feature, allows you to use your scanner with many different types of systems for seamless integration now, as well as painless migration to new ones in the future. We back up our leading scanner design with a full three-year warranty. And to help you derive full value from your investment, Motorola's Service from the Start – Bronze provides defined telephone technical support and rapid repair turnaround times for seamless coverage and true service peace of mind.

For more information on the Symbol DS3478 Series of rugged, cordless, handheld scanners 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/ds3478

Symbol DS3478 Series 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 (w/o 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 characteristics

Light source:	650 nm visible laser diode
Resolution:	640 x 480
Min. element width:	5 mil (0.127 mm)
Nominal working distance:	Please see decode zone
Print contrast:	25% minimum reflective difference
Roll (Tilt)[1] :	+/- 50 degrees from normal
Pitch[2] :	+/- 60 degrees from normal
Skew (Yaw)[3] :	+/- 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
Postal codes:	U.S. Postnet, U.S. Planet, U.K. Postal, Japan Postal, Australian Postal, Dutch Postal
DPM Marks (DPM unit only):	Data matrix marks applied by dot peening, laser etching, molding, stamping or casting methods to multiple substrates including metal, plastic or glass
Interfaces supported:	RS232, Keyboard Wedge, Wand Emulation, Scanner Emulation, IBM 468X/469X, USB and Synapse

User environment

Operating temp.:	32° to 122°F (-0° to 50°C)
Storage temp.:	-40° to 140°F (-40° to 60°C)
Humidity:	5% to 95% relative humidity, noncondensing

Sealing:	Sealed to IP65 specifications
Drop specs:	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 (ESD):	Conforms to 15 kV air discharge and 8 kV of contact discharge

Cradles	STB 3408 and FLB 3408	STB 3478 and FLB 3478
Power reqs.:	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
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:	CDRH Class II, IEC Class 2

Warranty

The Symbol DS3478 Series 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.

Recommended Service

Service from the Start – Bronze

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

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