



SYMBOL DS3500-ER SERIES

MAXIMUM PERFORMANCE, PRODUCTIVITY, SCANNING RANGE AND RUGGED DESIGN

RAPIDLY SCAN 1-D AND 2-D BAR CODES AT NEARLY ANY RANGE FROM NEAR TO FAR

Warehouses in distribution centers and manufacturing plants, warehouse-style retail stores, outdoor lumber yards and pipelines all have one thing in common the need to scan different types of bar codes across a wide range of distances . The DS3500-ER Series of full range corded and cordless scanners allows you to do just that capture bar codes from near contact to as far as 30 ft./9.14 m away. With this single device, workers can scan an item in hand or an item on the tallest rack in the warehouse. The need to purchase multiple types of devices to capture different types of bar codes at different distances is eliminated, so you can boost productivity and minimize your investment.

DELIVERING THE ULTIMATE IN SPEED

When it comes to performance, you can expect the same superior scanning experience that has made Zebra the worlds leader in bar code technology. Easily read bar codes under several layers of shrinkwrap without any impact on read speed. Workers can also hold the trigger down to continuously scan items. It doesnt matter how well lit an area is the DS3500-ER Series can read bar codes in darkness or in bright sunlight. And you can easily format the data for easy integration into your existing systems, without costly modification of host software.

BUILT TO LAST IN THE HARSHTEST INDUSTRIAL ENVIRONMENTS

With Zebra's maximum rugged specifications, the DS3500-ER Series can handle whatever comes its way during the workday. Indoors and outdoors, you can drop it on concrete, cover it in dust or grease, spray it with high pressure jets of water or expose it to extreme temperatures with the same result day-in and day-out reliable operation.

For more information on how you can put the DS3500-ER Series to work in your organization, please visit us on the web at www.zebra.com/ds3500er or access our global contact directory at www.zebra.com/contact

FEATURES

Wireless option with Integrated Bluetooth Class II , Version 2.1

Cable-free convenience
secure wireless transmissions; reduces repairs due to cable failure

Maximum scanning range:

Full range scanner captures from near contact to over 30 ft./9.14 m

Scans 1-D and 2-D bar codes:

Flexibility to capture the bar codes in use today and tomorrow

Maximum rugged design:

IP65; 6.5 ft./2m drop to concrete; 2,000 revolutions (4,000 hits) in Motorolas tumble drum; dual frictionless fixed sensor design

Superior motion tolerance:

Protects productivity no wait times between trigger pulls

FI PS 140-2 validated:

Secures the most sensitive data and enables compliance with a myriad of industry regulations (cordless models only)

SPECIFICATIONS CHART

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	DS3508-ER (without cable): 12.8 oz. (363 grams) DS3578-ER: 13.79 oz. (391 gm)
Battery	DS3578 only: 2200 mAh Lithium Ion Battery (note that DS3508 does not require a battery)
Battery Charge Time	Fully charged (100%) in 4.5 hours
Color	Twilight Black/Yellow

PERFORMANCE CHARACTERISTICS

Light Source	Aiming pattern: 650nm visible laser diode Illumination: 630nm LED
Roll/Pitch/Yaw	360°, ±60°, ±60°
Motion Tolerance	Up to 60 in./sec. (1.52m/sec.) for 100% 13 mil UPC; motion tolerance will vary depending on code type, scan distance and print quality

USER ENVIRONMENT

Operating Temp	-4° F to 122° F/-20° C to 50° C
Storage Temp	-40° F to 140° F/-40° C to 60° C
Humidity	5% to 95% relative humidity, non-condensing
Sealing	Sealed to IP65 specifications
Drop Specifications	Functions normally after repeated 6.5 ft. (2 m) drops to concrete
# Cradle Insertions DS3578	DS3578 only: 250,000+ insertions (not applicable to DS3508)
Ambient Light Immunity	Sunlight 8,000 ft. candles (86,000 LUX); Incandescent; Fluorescent; Mercury Vapor; Sodium Vapor 150 ft.

CRADLES¹

STB 3508 and FLB 3508	Power Reqs. : 4.75-14 VDC Typical current draw: Not charging : 35 mA @5V, 45 mA @9V Fast rate charge ² : 915 mA @5V, 660 mA @9V Slow rate charge ³ : 480 mA @5V, 345 mA @9V
STB 3578 and FLB 3578	Power Reqs. : 4.75-14 VDC Typical current draw: Not charging : 105 mA @5V, 110 mA @9V Fast rate charge ² : 915 mA @5V, 660 mA @9V Slow rate charge ³ : 480 mA @5V, 345 mA @9V

RADIO SPECIFICATION

Radio	Bluetooth Class II Version 2.1, Serial Port and HID Profiles
Frequency	2.402 to 2.480 GHz adaptive frequency hopping and co-existence with 802.11 wireless networks
Data Rate	720 Kbps
Radio Range	Radio range: Up to 300 ft. (100m) direct line of sight in open air. typical indoor cordless range is 100 ft. (33m), but range will vary depending upon environment

INTERFACES

Interfaces Supported	USB, RS-232, RS-485 (IBM 46xx Protocols), Keyboard Wedge
Electrostatic Discharge (ESD):	+/- 15kV air discharge and +/- 8kV contact discharge

REGULATORY

Electrical Safety	UL60950-1, CSA C22.2 No. 60950-1, EN 60950-1 / IEC 60950-1
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Omni-directional:

No need to line up scanner and bar code

Superior decode capability:

Captures bar codes under multiple layers of shrinkwrap as well as codes that are damaged, scratched or dirty

Scan in darkness or in bright sunlight:

Maintain productivity in any lighting

Continuous scanning mode:

Depress and hold trigger to keep scanning no pausing between scans

Advanced data formatting:

Enables sophisticated formatting of scanned data before it is sent to the host, eliminating the high cost of modifying your host application

candles
(1,600 LUX); Immune to
direct exposure to normal
office and
factory lighting conditions, as
well as direct exposure to
sunlight

Laser Safety EN 60825-1, IEC 60825-1,
21CFR1040.10, CDRH Class
II , IEC Class 2

EMI/RFI FCC Part 15 Class B, ICES-
003 Class B, EN 55022, EN
55024, AS/NZS 4268:2008,
Japan VCCI

Environmental Compliant with RoHS
directive 2002/95/EEC

SYMBOLGY DECODE CAPABILITY

1-D Codes UPC/EAN (UPCA/UPCE/
UPCE1/EAN-8/EAN-13/ JAN
-8/JAN-13
plus supplementals, ISBN (Bookland), ISSN, Coupon
Code), Code
39 (Standard, Full ASCII ,
Trioptic), Code 128 (Standard, Full ASCII ,
UCC/EAN-128, ISBT-128
Concatenated), Code 93,
Codabar/
NW7, Code 11 (Standard,
Matrix 2 of 5), MSI Plessey, I
2 of 5
(Interleaved 2 of 5 / IT F,
Discrete 2 of 5, IATA ,
Chinese 2 of 5),
GS1 DataBar (Omni-directional, Truncated,
Stacked, Stacked
Omni-directional, Limited,
Expanded, Expanded
Stacked, Inverse),
Base 32 (Italian Pharmacode
)

**PDF417 (and
Variants)** PDF417 (Standard, Macro),
microPDF417 (Standard,
Macro),
Composite Codes (CC-A,
CC-B, CC-C)

2-D Codes TL C-39, Aztec (Standard,
Inverse), MaxiCode,
DataMatrix/ECC
200 (Standard, Inverse), QR
Code (Standard, Inverse,
Micro)

Postal U.S. Postnet, U.S. Planet,
U.K. Postal, Japan Postal,
Australian
Postal, Dutch Postal, 4 State
Postal

IUID Support Supports IUID parsing the
ability to read and separate
IUID
fields per application
requirements

OPTIONS

Accessories Holster; tool balancer pulley (tethered); standard cradle (charge only; radio/charge);
forklift cradle (charge only;
radio/charge)

WARRANTY

**The DS3500-ER 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.**

RECOMMENDED SERVICES

**Service from the Start Advance Exchange
Support**

NOTES

- 1. Cradles STB/FLB3508 and STB/FLB3578 are utilized with the DS3578. (The DS3508 doesnot use a cradle; it is tethered to the host.) In addition,STB/FLB3508 is a charge-only cradle with no communication capabilities.**
- 2. Requires an external power supply.**
- 3. Cradle defaults to slow rate charge when an external supply is not used.**

DS3500-ER SERIES DECODE ZONE

Code 39 - 7.5 mil Near : 8.5 in./21.6 cm
Far : 34 in./86.4 cm

Code 39 - 10 mil Near : 8 in./20.3 cm
Far : 42 in./106.7 cm

Code 39 - 20 mil Near : *
Far : 88 in./223.5 cm

Code 39 - 55 mil Near : *
Far : 205 in./520.7 cm

Code 39 - 100 mil Near : *
Far : 335 in./851.0 cm

* Dependent upon length of bar code



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ZEBRA TECHNOLOGIES