



DS8100-HC series handheld scanners

Improved speed and workflow
for healthcare



You know that accurate, fast authentication of bar code data is critical. Now, our Digi-Trax/Zebra Partnership brings the latest in scanning technology to you. The DS8100-HC series rises above conventional imagers to deliver unprecedented scanning of 1D and 2D bar codes. You will find its innovative “aim and release” function transforms your workflow. Extend your reach today and improve efficiencies.

Digi-Trax will Program the Scanner for You

Using the Zebra software, Digi-Trax can program your scanner so that it only reads the bar codes you choose in the order that you desire. We will customize the scanner for you before we ship it so you're ready to go.

Adaptable To Clinician Workflows

Continuous 24 hour scanning with Zebra's PowerPrecision+ smart battery in the cordless DS8178-HC, your workers will always have the power they need for the busiest shift. Devices are always available — no need for charging mid-shift.

Healthcare Housing

The DS8100 series, which includes both corded and cordless models, is produced with the latest anti-microbial plastics specifically for use in healthcare. This white scanner ensures the ultimate in infection control.

Patient Safety

The DS8100's green aiming spot avoids blue wavelengths, which can potentially cause eye injury.





DS8100-HC series specifications

PHYSICAL CHARACTERISTICS

Dimensions	Corded DS8108-HC and Cordless DS8178-HC: 6.6 in. H x 2.6 in. W x 4.2 in. D 16.8 cm. H x 6.6 cm. W x 10.7 cm. D Desk/Wall Cradle: 2.8 in. H x 3.3 in. W x 8.3 in. D 7.2 cm. H x 8.4 cm. W x 21.1 cm. D Presentation Cradle: 2.9 in. H x 3.7 in. W x 4.8 in. D 7.3 cm. H x 9.4 cm. W x 12.3 cm. D
Weight	Corded DS8108-HC: 5.5 oz./156 g Cordless DS8178-HC: 8.3 oz./235 g Desk/Wall Cradle: 7.1 oz./202 g Presentation Cradle: 6.5 oz./182 g
Input Voltage Range	DS8108-HC: 4.5 to 5.5VDC DS8178-HC Cradles: 5V: 4.7 to 5.5VDC; 12V: 10.8 to 13.2VDC
Current¹	Corded DS8108-HC Operating Current at Nominal Voltage (5.0V): 450 mA Cradle: 470 mA (typical) Standard USB; 743mA (typical) 12V
Color	Healthcare White
Supported Host Interfaces	USB, RS232, Keyboard Wedge, TGCS (IBM) 46XX over RS485
Keyboard Support	Supports over 90 international keyboards
FIPS Security Certification	Certified Compliant with FIPS 140-2
User Indicators	Direct Decode Indicator, Good Decode LEDs, Rear View LEDs, Beeper (Adjustable Tone & Volume), Battery Indicator; Vibration

PERFORMANCE CHARACTERISTICS

Light Source	Aiming Pattern: True Green (528 nm) Circular
Illumination	Two (2) Warm White LEDs
Imager Field of View	48° H x 37° V Nominal
Image Sensor	1,280 x 960 pixels
Minimum Print Contrast	16% minimum reflective difference
Skew/Pitch Roll Tolerance	+/- 60°; +/- 60°; 0-360°

IMAGING CHARACTERISTICS

Graphics Format Support	Images can be exported as Bitmap, JPEG or TIFF
Image Quality	109 PPI on an A4 document
Minimum Element Resolution	Code 39 - 3.0 mil; Code 128 - 3.0 mil; Data Matrix - 5.0 mil; QR Code - 5.0 mil; PDF - 4.0 mil

USER ENVIRONMENT

Operating Temperature	Scanner: 32° to 122° F/0° to 50° C Presentation Mode: 32° to 104° F/0° to 40° C
Charging Temperature	32° to 104° F/0° to 40° C


USER ENVIRONMENT (CONTINUED)

Storage Temperature	-40° to 158° F/-40° to 70° C
Humidity	5% to 95% RH, non-condensing
Drop Specification	Designed to withstand multiple drops at 6.0 ft./1.8 m to concrete
Tumble Specification	Designed to withstand 2,000 tumbles at 1.5 ft./0.5 m tumbler ²
Environmental Sealing	IP42
Electrostatic Discharge (ESD)	DS8108-HC/DS8178-HC and Cradles: ESD per EN61000-4-2, +/-15 KV Air, +/-8 KV Direct, +/-8 KV Indirect
Ambient Light Immunity	0 to 9,000 Foot Candles/0 to 96,840 Lux

RADIO SPECIFICATIONS

Bluetooth Radio	Standard Bluetooth Version 4.0 with BLE: Class 1 330 ft. (100m) and Class 2 33 ft. (10m), Serial Port and HID Profiles
Adjustable Bluetooth Power	Class 1: Output power adjustable down from 4 dBm in 8 Steps Class 2: Output power adjustable down from 2 dBm in 8 Steps

BATTERY

Battery Capacity/ Battery Type	 2,500 mAh Li-Ion Power Precision+ Battery
Scans Per Battery Charge	65,000 (1 scan per second)
Operating Time Per Full Charge³	83 hours

Typical Charge Time from Empty to Full Charge

Power Source	Desk/Wall Cradle	Presentation Cradle
Standard USB	7 hrs 45 min	9 hrs 15 min
BC1.2 USB	3 hrs	3 hrs 15 min
External 5V Source	4 hrs 30 min	5 hrs
External 12V Source	2 hrs 15 min	2 hrs 15 min

REGULATORY

Electrical Safety	EN 60950-1 2ed + A11 + A1 + A12 + A2:2013, IEC 60950-1 2ed + A1 + A2, UL 60950-1, CAN/CSA-C22.2 No. 60950-1-07
Environmental	RoHS EN 50581
LED Safety	IEC 62471
IT Emissions	EN 55022 (Class B); EN 55032 (Class B)
IT Immunity	EN 55024
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuation and Flicker	EN 61000-3-3

For more information, please contact us at
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