

# **DS8100-HC Series Handheld Imagers**

# BETTER WORKFLOWS FOR HEALTHCARE PROFESSIONALS. BETTER EXPERIENCES FOR PATIENTS.

As a healthcare provider, you need to deliver the very best in care, every second of every day. That means giving your healthcare professionals the tools they need to improve patient outcomes, increase productivity and streamline everyday processes. With the purpose-built DS8100-HC, you can. With the ability to instantly capture the most difficult to read barcodes; an industry-first housing that offers maximum protection against the spread of bacteria; Night Mode with Vibrate for can't miss feedback on decodes and a built-in lamp, the DS8100-HC can seamlessly integrate into existing healthcare workflows to boost process efficiencies and ensure that patients are left undisturbed until necessary. Combined with Zebra's complimentary manageability tools to simplify the setup, deployment, performance monitoring and ongoing management of your scanners, the DS8100-HC is the ideal solution to enhance patient safety, the productivity of staff members and the efficiency of point-of-care operations.



# Q. seage



### **IMPROVED PATIENT EXPERIENCES**

### Unparalleled Performance on Virtually Every Barcode in Any Condition

Only the DS8100-HC Series combines the power of an 800 MHz microprocessor, a high-resolution megapixel sensor and Zebra's exclusive PRZM technology. With this unique combination of hardware and advanced algorithms, the DS8100-HC Series instantly captures the most problematic barcodes found in pharmacies, labs and at the point-of-care — including dense, tiny, curved, poorly printed, shiny, crinkled, faded, distorted, dirty or damaged, as well as electronic barcodes on dimly lit displays.

### First-of-its-kind Housing Offers Maximum Protection Against the Spread of Infection

Only the DS8100-HC offers a purpose-built housing specially designed to help prevent the spread of bacteria. Special plastics allow for Safe wipe-downs with the widest selection of the harshest and most aggressive disinfectants used in today's hospitals. And concealed screw holes and seams eliminate areas where bacteria could hide — even after a wipedown.

# Flexible User-Selectable Feedback Including Night Mode with Vibrate

Choose from a wide array of easily controllable feedback modes designed for virtually any hospital environment. From the Intensive Care Unit to a quiet night shift or a busy and more noisy day shift, there is a feedback mode that will instantly notify your healthcare workers that a barcode was properly captured — without disturbing patients.

In addition to the standard LED, vibrate and beeper feedback, Zebra's Direct Decode Indicator flashes illumination onto the barcode to confirm that it has been captured. Clinicians can be confident that a medicine, specimen or IV bag was properly scanned — without interrupting the work flow to look at the scanner.

With Night Mode, healthcare workers can switch between vibrate and beeper feedback by simply depressing the trigger for a few seconds.

And it's easy to control it all. Enable vibrate, beeper and the Direct Decode Indicator individually or in any combination, and easily adjust beeper volume, beeper frequency and illumination intensity.

### **Patient Safety**

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

### **ADAPTABLE TO CLINICIAN WORKFLOWS**

### **Continuous 24 Hour Scanning**

With Zebra's exclusive PowerPrecision+ smart battery in the cordless DS8178-HC, your nurses and workers will always have the power they need for the busiest shift. Devices are always available — no need for charging mid-shift.

### **Exclusive Battery Charge Gauge**

No more guess work on the status of a battery at the start of a shift. The DS8178-HC is the only scanner in its class that makes it easy to see at a glance whether a battery needs to be replaced before the scanner is placed into service. And since the battery can be changed without special tools, it can be changed at the point of care if necessary.

### **Choice Of Compact USB Powered Cradles**

The minimal footprint of the presentation cradle easily fits on the most crowded workstation-on-wheels (WOWs), allowing nurses to easily switch between hands-free and handheld modes as needed. The desk/wall cradle can be mounted on a wall, mechanical arm or mobile workstation, and is a perfect solution for facilities that put a computer in every room.

### **Doubles as a Workstation Lamp**

The scanner's built-in lamp can illuminate a nurse's workspace, so there's no need to disturb sleeping patients by turning on the room lights.

## Eliminate Bluetooth Interference with Zebra's Proprietary Wi-Fi Friendly Mode

Ensure that your DS8178-HC Bluetooth scanners only operate on channels that are not shared with your wireless LAN (WLAN), protecting WLAN service levels for your caregivers, workers, patients and visitors.

### FIPS 140-2 Certified

The DS8100-HC Series is FIPS 140-2 validated and certified to keep patient data safe and secure.

### Locate a Misplaced Scanner in Seconds

The cradle's paging button can easily locate a misplaced scanner so nurses don't need to waste critical time searching for a misplaced scanner.

### Apple Certified for iPads and iPhones

Are your healthcare workers using iPads or iPhones? No problem. The Bluetooth DS8178-HC is Applecertified — enabling you to bring Zebra's advanced scanning technology to these mobile devices.

### **UNRIVALED MANAGEABILITY**

# Visionary Visibility into Scanning and Battery Performance Metrics — only from Zebra

Track metrics that include symbology and decode speed to spot and correct barcode issues before they impact worker productivity and the quality of care. And with a wealth of battery health information, including charge cycles consumed, a State-of-Health meter and remaining percentage of full charge capacity, you can easily spot and replace aging batteries before they can no longer last a full shift. Armed with this information, you can order and install new batteries before battery failures interrupt critical operations at the point of care.

# Easily Manage All of Your Scanners with Powerful Complimentary Tools

With 123Scan, you can easily create configuration barcodes to program scanners. If your imagers are in multiple locations across the country or around the world, with Scanner Management Service (SMS), you can configure and update the firmware for any DS8100-HC Series device that is plugged into the host — no depot staging or user action is required — such as the scanning of a configuration barcode.

### **Easy Application Development**

Get everything you need to easily integrate scanning into your business applications with our Scanner Software Development Kits (SDKs) for Windows, Android, iOS and Linux. These SDKs provide documentation, drivers, test utilities and sample source code.

# Improve virtually every aspect of patient care with the DS8100-HC.

The DS8100-HC Series gives nurses and other healthcare staff the tools they need to provide their patients with the best of care—and perform everyday duties faster and more accurately.

- Patient identification
- Medication
   administration
- Specimen collection
- · Patient admission
- Caregiver accountability and audit trail
- · Dietary management
- Chain of custody for controlled substances
- Inventory management

# **DS8100-HC Series Specifications**

Dimensions	Corded DS8108-HC and Cordless DS8178-HC:		
Dillielisiolis	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		
	<b>Cordless DS8178-HC:</b> 8.3 oz./235 g		
	Desk/Wall Cradle: 7.1 oz./202 g Presentation Cradle: 6.5 oz./182 g		
Input Voltage	<b>DS8108-HC:</b> 4.5 to 5.5VDC		
Range	<b>DS8178-HC Cradles:</b> 5V: 4.7 to 5.5VDC; 12V: 10.8 to 13.2VDC		
Current <sup>1</sup>	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 CHARA	ACTERISTICS		
Graphics Format Support	Images can be exported as Bitmap, JPEG or TIFF		
Image Quality	109 PPI on an A4 document		
Minimum	Code 39 - 3.0 mil; Code 128 - 3.0 mil; Data Matrix - 5.0 mil;		
Element Resolution	QR Code - 5.0 mil; PDF - 4.0 mil		
USER ENVIRONI	MENT		
Operating	Scanner: 32° to 122° F/0° to 50° C		
Temperature	Presentation Mode: 32° to 104° F/0° to 40° C		

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  Environmental Environmental Environmental Electrostatic Discharge (ESD)  BABIO SPECIFICATIONS  Bluetooth Radio Adjustable Bluetooth Radio Class 1: Output power adjustable down from 4 dBm in 8 Steps Power  BATTERY  Battery Capacity/ Battery Type  Scans Per Battery Charge  Fypical Charge  Fypical Charge  Fypical Charge  Typical Charge  Typical Charge  Standard USB  7 hrs 45 min BC1.2 USB  3 hrs 3 hrs 15 min  External 12V Source 2 hrs 15 min  External 12V Source 3 hrs 60000-3-2  Environmental Environmenta	5				
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  Fivironmental Sealing  IP42  Electrostatic DS8108-HC/DS8178-HC and Cradles: ESD per EN61000-4-2, +/- Discharge (ESD)  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 Class 1: Output power adjustable down from 4 dBm in 8 Steps Class 2: Output power adjustable down from 2 dBm in 8 Steps Class 2: Output power adjustable down from 2 dBm in 8 Steps  Battery Capacity/ Battery Type  Scans Per Battery Charge  Operating Time Per 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 3 hrs 15 min  External 5V Source 4 hrs 30 min 5 hrs  External 12V Source 2 hrs 15 min  REGULATORY  Electrical Safety EN 60950-1 2ed + A11 + A1 + A12 + A2:2013, IEC 60950-1 2ed + A2, UL 60950-1, CAN/CSA-C22.2 No. 60950-1-07  Environmental ROHS EN 50581  LED Safety IEC 62471  IT Emissions EN 55024  Harmonic Current Emissions  Voltage	USER ENVIRON	MENT (CONTINUED)			
Drop Specification  Designed to withstand multiple drops at 6.0 ft./1.8 m to concrete Specification  Designed to withstand 2,000 tumbles at 1.5 ft./0.5 m tumbler?  Environmental Sealing  IP42  Electrostatic Discharge (ESD)  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 1330 ft. (100m) and Class 2 33 ft. (10m), Serial Port and HID Profiles  Adjustable Bluetooth Class 2: Output power adjustable down from 2 dBm in 8 Steps Class 2: Output power adjustable down from 2 dBm in 8 Steps Bluetooth Power  BATTERY  Battery Capacity/ Battery Type  Scans Per Battery Charge  65,000 (1 scan per second)  Operating Time Per Full Charge <sup>3</sup> 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  External 5V Source 4 hrs 30 min 5 hrs  External 12V Source 2 hrs 15 min  External 12V Source 2 hrs 15 min  REGULATORY  Electrical Safety EN 60950-1 2ed + A11 + A1 + A12 + A2:2013, IEC 60950-1 2ed + A2, UL 60950-1, CAN/CSA-C22.2 No. 60950-1-07  Environmental ROHS EN 50581  LED Safety IEC 62471  IT Emissions EN 55024  Harmonic Current Emissions  Voltage	-	-40° to 158° F/-40° to 70° C			
Specification  Tumble Specification  Designed to withstand 2,000 tumbles at 1.5 ft./0.5 m tumbler?  Environmental Sealing  IP42  Electrostatic Discharge (ESD)  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. (100m), Serial Port and HID Profiles  Class 1: Output power adjustable down from 2 dBm in 8 Steps Bluetooth Power  BATTERY  Battery Capacity/ Battery Type  Scans Per Battery Charge  Operating Time Per Full Charge³  Typical Charge Time from Empty to Full Charge  Power Source  Desk/Wall Cradle  Standard USB  7 hrs 45 min  9 hrs 15 min  BC1.2 USB  3 hrs 3 hrs 3 hrs 15 min  External 5V Source 4 hrs 30 min 5 hrs  External 12V Source 2 hrs 15 min  External 12V Source 2 hrs 15 min  External 12V Source 5 Alia Substitution  External 12V Source Alia Substitution  Extern	Humidity	5% to 95% RH, non-condensing	g		
Designed to withstand 2,000 tumbles at 1.5 ft./0.5 m tumbler2   Environmental Sealing		Designed to withstand multiple drops at 6.0 ft./1.8 m to concrete			
Sealing   IP42		Designed to withstand 2,000 tumbles at 1.5 ft./0.5 m tumbler <sup>2</sup>			
Discharge (ESD) KV Air, +/-8 KV Direct, +/-8 KV Indirect  Ambient Light Immunity  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  Class 1: Output power adjustable down from 4 dBm in 8 Steps Bluetooth Class 2: Output power adjustable down from 2 dBm in 8 Steps Prower  BATTERY  Battery Capacity/ Scans Per Battery Charge  G5,000 (1 scan per second)  Operating Time Per 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 + A4 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  Voltage		IP42			
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 Class 1: Output power adjustable down from 4 dBm in 8 Steps Bluetooth Power  Power BATTERY  Battery Capacity/ Battery Type  Scans Per Battery Charge  Operating Time Per 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 + A A2, UL 60950-1, CAN/CSA-C22.2 No. 60950-1-07  Environmental RoHS EN 50581  LED Safety IEC 62471  IT Emissions EN 55024  Harmonic Current Emissions  Voltage					
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 Adjustable down from 4 dBm in 8 Steps Class 2: Output power adjustable down from 2 dBm in 8 Steps Power  BATTERY  Battery Capacity/ Battery Type  Scans Per Battery Charge  65,000 (1 scan per second)  Operating Time Per 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 + A2, UL 60950-1, CAN/CSA-C22.2 No. 60950-1-07  Environmental RoHS EN 50581  LED Safety IEC 62471  IT Emissions EN 55024  Harmonic Current Emissions  Voltage	-	0 to 9,000 Foot Candles/0 to 96,840 Lux			
and Class 2 33 ft. (10m), Serial Port and HID Profiles  Adjustable Bluetooth Power  BATTERY  Battery Capacity/ Battery Type  Scans Per Battery Charge  65,000 (1 scan per second)  Operating Time Per Full Charge³  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 3 hrs 15 min  External 5V Source 4 hrs 30 min 5 hrs  External 12V Source 2 hrs 15 min  REGULATORY  Electrical Safety EN 60950-1 2ed + A11 + A1 + A12 + A2:2013, IEC 60950-1 2ed + A2, UL 60950-1, CAN/CSA-C22.2 No. 60950-1-07  Environmental ROHS EN 50581  LED Safety IEC 62471  IT Emissions EN 55024  Harmonic Current Emissions  Voltage	RADIO SPECIFIC	CATIONS			
Bluetooth Power  BATTERY  Battery Capacity/ Battery Type  Scans Per Battery Charge  Operating Time Per Full Charge  Power Source  Standard USB  This 45 min  BC1.2 USB  BC1.2 USB  BC1.2 USB  Capacity Source  External 12V Source  External 12V Source  External 12V Source  External 12V Source  Capacity Source  Environmental  ROHS EN 50581  LED Safety  IT Immunity  EN 55024  Harmonic Current Emissions  Page 2,500 mAh Li-Ion Power Precision+ Battery  2,500 mAh Li-Ion Power Precision+ Battery  Battery  2,500 mAh Li-Ion Power Precision+ Battery  Battery  2,500 mAh Li-Ion Power Precision+ Battery  Battery  Battery  2,500 mAh Li-Ion Power Precision+ Battery  Battery  Battery  2,500 mAh Li-Ion Power Precision+ Battery  Battery  3 hours  Presentation Cradle  Presenta	Bluetooth Radio				
Battery Capacity/Battery Type  Scans Per Battery Charge  65,000 (1 scan per second)  Operating Time Per Full Charge  Power Source  Desk/Wall Cradle  Standard USB  7 hrs 45 min  BC1.2 USB  3 hrs  3 hrs  3 hrs 15 min  External 5V Source  4 hrs 30 min  5 hrs  External 12V Source  2 hrs 15 min  External 12V Source  2 hrs 15 min  REGULATORY  Electrical Safety  EN 60950-1 2ed + A11 + A1 + A12 + A2:2013, IEC 60950-1 2ed + A2, UL 60950-1, CAN/CSA-C22.2 No. 60950-1-07  Environmental  ROHS EN 50581  LED Safety  IT Emissions  EN 55022 (Class B); EN 55032 (Class B)  IT Immunity  EN 61000-3-2  Voltage	Bluetooth				
Scans Per Battery Charge 65,000 (1 scan per second)  Operating Time Per Full Charge 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 + 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  Voltage	BATTERY				
## Survey Research    Page		2,500 mAh Li-Ion Power Precision+ Battery			
Per Full Charge³         85 ROURS           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 + 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		65,000 (1 scan per second)			
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 + 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           Voltage		83 hours			
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           REGULATORY           Electrical Safety         EN 60950-1 2ed + A11 + A1 + A12 + A2:2013, IEC 60950-1 2ed + A2, UL 60950-1, CAN/CSA-C22.2 No. 60950-1-07           Environmental         RoHS EN 50581           LED Safety         IEC 62471           IT Immunity         EN 55022 (Class B); EN 55032 (Class B)           IT Immunity           EN 61000-3-2           Voltage	Typical Charge Tir	ne from Empty to Full Charge			
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 + 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  Voltage	Power Source	Desk/Wall Cradle	Presentation Cradle		
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 + 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	Standard USB	7 hrs 45 min 9 hrs 15 min			
External 12V Source   2 hrs 15 min   2 hrs 15 min	BC1.2 USB	3 hrs 3 hrs 15 min			
REGULATORY           Electrical Safety         EN 60950-1 2ed + A11 + A1 + A12 + A2:2013, IEC 60950-1 2ed + A 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	External 5V Sour	ce 4 hrs 30 min 5 hrs			
Electrical Safety	External 12V Sour	rce 2 hrs 15 min	2 hrs 15 min		
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  Voltage	REGULATORY				
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	Electrical Safety				
IT Emissions EN 55022 (Class B); EN 55032 (Class B)  IT Immunity EN 55024  Harmonic Current Emissions EN 61000-3-2  Voltage	Environmental	RoHS EN 50581			
Harmonic Current Emissions EN 61000-3-2 Voltage	LED Safety	IEC 62471			
Harmonic Current Emissions EN 61000-3-2 Voltage	IT Emissions	EN 55022 (Class B); EN 55032 (Class B)			
Emissions EN 61000-3-2 Voltage	IT Immunity	EN 55024			
		EN 61000-3-2			
and Flicker	Fluctuation	EN 61000-3-3			

Continued on next page

# **DS8100-HC Series Specifications (continued)**

REGULATORY (CONTINUED)			
Radio Frequency Devices	47 CFR Part 15, Subpart B, Class B		
Digital Apparatus	ICES-003 Issue 6, Class B		
Medical Electrical Equipment	EN60601-1-2: 2015		
ACCESSORIES			
Standard Cradle, P	resentation Cradle, Spare Battery, Document Capture Stands		
DECODE CAPAB	BILITIES <sup>4</sup>		
1D	Code 39, Code 128, Code 93, Codabar/NW7, Code 11, MSI Plessey, UPC/EAN, I 2 of 5, Korean 3 of 5, GS1 DataBar, Base 32 (Italian Pharma)		
2D	PDF417, Micro PDF417, Composite Codes, TLC-39, Aztec, DataMatrix, MaxiCode, QR Code, Micro QR, Chinese Sensible (Han Xin), Postal Codes		

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Subject to the terms of Zebra's hardware warranty statement, the DS8178 Scanner and CR8178 Cradle are warranted against defects in workmanship and materials for a period of (3) three years from the date of shipment. The Battery: (12) twelve months and the DS8108 Scanner is warranted against defects in workmanship and materials for a period of (5) five years from the date of shipment. Complete Zebra hardware product warranty statement:

### **RECOMMENDED SERVICES**

Zebra OneCare Select; Zebra OneCare Essential

Zobia directife delect, Zobia directife Zobernia.			
UTILITIES AND	UTILITIES AND MANAGEMENT		
123Scan	Programs scanner parameters, upgrades firmware, displays scanned barcode data, scanning statistics, battery health, asset data and prints reports.		
Symbol Scanner SDK	Generates a fully-featured scanner application, including documentation, drivers, test utilities and sample source code.		
Scanner Management Service (SMS)	Remotely manages your Zebra scanner and queries its asset information.		

### **CLEANING INSTRUCTIONS**

Please refer to www.zebra.com for instructions on cleaning of healthcare scanners.

- <sup>1</sup> Refer to Product Reference Guide for currents when other power sources are used.
- <sup>2</sup> Note: 1 tumble = 0.5 cycles
- $^{\rm 3}\,$  Simulated Checkout profile of 10 scans in 10 seconds with a 50 second rest.
- <sup>4</sup> Refer to Product Reference Guide for complete list of symbologies.
- $^{\rm 5}\,$  Printing resolution, contrast, and ambient light dependent.
- \* Available April 2017

DECODE RANGES (TYPICAL) <sup>5</sup>				
SYMBOLOGY	RESOLUTION	NEAR	FAR	
Code 39	3 mil	1.4 in./3.6 cm	5.1 in./13.0 cm	
Code 128	3 mil	1.8 in./4.6 cm	4.1 in./10.4 cm	
Code 128	5 mil	1.2 in./3.0 cm	8.1 in./20.6 cm	
Code 128	15 mil	1.0 in./2.5 cm	16.9 in./42.9 cm	
PDF 417	5 mil	1.5 in./3.8 cm	6.1 in./15.5 cm	
PDF 417	6.67 mil	1.1 in./2.8 cm	8.1 in./20.6 cm	
Data Matrix	5.0 mil	1.9 in./4.8 cm	4.5 in./11.4 cm	
Data Matrix	7.5 mil	1.3 in./3.3 cm	6.7 in./17.0 cm	
Data Matrix	10.0 mil	0.6 in./1.5 cm	8.5 in./21.6 cm	
UPC	13 mil (100%)	0.0 in./0.0 cm	15.9 in./40.4 cm	
QR	10 mil	0.6 in./1.5 cm	7.7 in./19.6 cm	
QR	20 mil	0.0 in./0.0 cm	12.5 in./31.8 cm	