DS82 Series for Healthcare

Smarter workflows. Unmatched scan performance. Stronger infection control.

In today's fast-paced clinical environments, supporting patient safety and workflow efficiency requires a new kind of scanner. The DS82 Series for Healthcare redefines data capture with smarter technology and a design built for modern clinical workflows. With a disinfectant-ready housing, a sealed inductive trigger, and antimicrobial labels, the DS82-HC Series is designed to be easier to clean and disinfect—helping reduce the risk of bacterial spread. A multi-function button simplifies multi-app workflows, while a high-performance 2 MP sensor instantly reads challenging barcodes on wristbands, medications, blood bags, and specimens—helping clinicians maintain precision and confidence throughout the care journey. Contactless charging and best-in-class swappable power options ensure uninterrupted performance through the longest shifts. The DS82-HC Series isn't just an upgrade—it sets a new standard for safer, more streamlined healthcare workflows.



Elevate Clinical Performance

Industry-leading infection control
The DS82-HC Series raises the bar to help prevent the spread of bacteria with a sealed, healthcare-ready design. Disinfectant-safe plastics and smooth, crevice-free surfaces withstand aggressive cleaning. The sealed inductive trigger removes one of the most common points of microbial buildup, while contactless charging eliminates exposed metal contacts—making the device easier to disinfect. Combined with antimicrobial labels, every detail of the DS82-HC Series supports stronger infection control.

Unmatched scanning performance for confident clinical care
Clinicians need scanners that work as reliably and relentlessly as they do, because scanning failures can lead to workarounds that compromise patient safety and productivity. The DS82-HC Series delivers uncompromising, industry-leading performance with an advanced 2 MP sensor, PRZM Intelligent Imaging, and a high-density focus designed to capture the most challenging barcodes across the hospital. From medication labels and translucent IV bags to blood bags, specimen trays, and wristbands on even the smallest patients, the DS82-HC Series reads them all quickly and consistently. That means fewer interruptions—and more time focused on patient care.

Multi-function button: streamline multi-app clinical workflows
A programmable multi-function button acts as a secondary trigger, allowing clinicians to switch between applications with a single press. They can scan into the EHR, then switch to a phlebotomy or specimen-labeling app without changing devices or interrupting care. This flexibility simplifies the workstation and clinician workflows—fewer devices, fewer errors.

Adapt to Every Workflow

More ways to disturb patients less
The DS82-HC Series is engineered to support quiet, patient-friendly care. Intelligent illumination activates only when a scan is needed—reducing excess lighting and helping maintain a calm environment. A built-in lamp softly brightens a clinician's workstation without relying on overhead lighting, ideal for

Elevate clinical workflows and patient care with the DS82 Series for Healthcare, the next evolution in scanning.

For more information, please visit www.zebra.com/ds82-hc-series

nighttime rounds. And with customizable feedback modes—including vibration, LEDs, soft adjustable tones, and one-touch Night Mode—clinicians get reliable confirmation of every scan without disturbing patients.

Healthcare-friendly LED aimer can be used throughout the hospital
An LED aimer enables use in the NICU and other areas where laser aimers are not advised, while the green aimer reduces the likelihood of triggering PTSD episodes.

Easily capture UDI information and blood bag data
The DS82-HC Series captures critical clinical data with a single scan. UDI Scan+ automatically parses device identification fields, while Blood Bag Parse+ captures and formats blood type, donation details, expiration dates, and more in one trigger pull. Built-in algorithms ensure multiple barcodes are parsed in the correct order, supporting more efficient and accurate patient care.

Faster, easier patient processing with image capture
An exclusive 2 MP sensor captures high-quality images of patient documents, making it easy to digitize forms without additional equipment. Intelligent Document Capture (IDC) enhances each image and extracts barcode data automatically, helping staff move patients through admissions and discharge faster and with fewer steps.

Choice of compact USB-powered cradles
The presentation cradle fits on a crowded workstation-on-wheels, enabling quick transitions between hands-free and handheld use. The desk/wall cradle mounts easily to a wall, arm, or mobile workstation to suit any clinical layout. Enhanced cradle designs ensure the scanner is always aligned for charging, and an integrated magnet helps keep it securely in place when mounted.

Cutting-edge Power for Longer, Uninterrupted Shifts

Maintenance-free contactless charging for easier cleaning and disinfection
Inductive wireless charging eliminates physical contacts and exposed metal surfaces, reducing hard-to-clean crevices, while extending device and cradle lifecycles.

Four days of uninterrupted performance with PowerPrecision+ battery
Cordless models offer two interchangeable power options: the PowerPrecision+ battery and the PowerCap™ supercapacitor. When clinicians need reliable, all-day power, the PowerPrecision+ battery provides up to 100,000 scans per charge—over four around-the-clock days of operation[1]. Advanced battery analytics help IT teams monitor battery health, optimize performance, and reduce unexpected downtime. Optional battery maintenance services[2] further lower replacement costs and ensure each scanner starts the shift fully charged.

PowerCap™ supercapacitor: hassle-free power built for longevity
The PowerCap™ offers a greener, low-maintenance alternative to batteries—and is ideal for workflows where scanners return to the cradle between use. It provides long-lasting performance, with up to 6,000 scans per charge and ultra-fast readiness for 100 scans in just 35 seconds. Both power options are interchangeable for maximum flexibility.

Avoid downtime with convenient power monitoring
A dedicated power gauge gives clinicians instant visibility into charge levels at the start of a shift, helping prevent interruptions during rounds.

Simplify Management with Built-in Intelligence

Keep scanners close and prevent workflow disruption
In fast-paced clinical settings, misplaced scanners can disrupt care. Zebra's Virtual Tether helps prevent loss by alerting staff when a cordless scanner is taken out of range or left out of its cradle—for example, when it's lost in patient bedding or separated from a workstation-on-wheels. Both the scanner and cradle can send audio, visual, or haptic alerts—and Night Mode keeps things quiet when patients are resting. The DS82-HC Series also supports Bluetooth beaconing, allowing organizations to use their existing locationing applications to find a device anywhere in the unit.

Leverage data for smarter decisions
IoT Connector automates real-time data collection and routes it to your chosen endpoint for instant analysis and actionable insights that help healthcare organizations make faster, smarter decisions.

Unleash the power of Zebra DNA
Zebra DNA is a cutting-edge suite of technologies designed to transform your DS82-HC Series into a dynamic, future-proof solution. From effortless deployment with 123Scan, to remote management and real-time analytics, Zebra DNA empowers your scanners with unmatched visibility, uptime, and adaptability. When you choose Zebra, you're investing in more than just a scanner—you're investing in a smarter, more agile future for your clinical operations.

Specifications

Physical Characteristics	
Dimensions	**Corded:** H x W x D: 6.5 x 2.7 x 4.1 inches (16.5 x 6.9 x 10.5 cm) **Cordless:** H x W x D: 6.9 x 2.7 x 4.4 inches (17.6 x 6.9 x 11.1 cm) **Standard/Desktop Cradle:** H x W x D: 2.9 x 3.0 x 8.3 inches (7.3 x 7.6 x 21.1 cm) **Presentation Cradle:** H x W x D: 3.0 x 3.7 x 4.9 inches (7.7 x 9.4 x 12.5 cm)
Weight	**Corded:** 6.5 oz. (185.5 g) **Cordless with battery:** 9.6 oz. (272.5 g) **Cordless with PowerCap™:** 8.8 oz. (248.3 g) **Standard/Desktop Cradle:** 9.0 oz. (255.3 g) **Presentation Cradle:** 8.0 oz. (226.3 g)
Input Voltage Range	**Corded:** 4.8 to 5.5 VDC host powered **Workstation/Wall Cradle:** 4.8 to 5.5 VDC host powered; 10.8 to 13.2 VDC external power supply **Presentation Cradle:** 4.7 to 5.5 VDC host powered; 10.8 to 13.2 VDC external power supply
Current	**Corded operating current at nominal voltage (5.0 V):** 450 mA (typical) **Corded standby current (idle) at nominal voltage (5.0 V):** 90 mA (typical) **Cradles:** 470 mA (typical) standard USB; 1450 mA (typical) BC 1.2 USB
Color	Healthcare White
Supported Host Interfaces	USB, RS232
Keyboard Support	Supports over 90 international keyboards
FIPS Security Certification	Certified compliant with FIPS 140-3
User Indicators	Direct Decode Indicator, Good Decode LEDs, Rear View LEDs, speaker (adjustable tone and volume), haptic feedback on decode, capacitive multi-function button with haptic feedback, battery indicator
Performance Characteristics	
Motion Tolerance (Handheld)	Up to 160 inches (406 cm) per second for 13 mil UPC in optimized mode
Swipe Speed (Hands-Free)	Up to 40 inches (102 cm) per second for 13 mil UPC in optimized mode
Light Source	Aiming Pattern: Circular 524 nm green LED
Illumination	Two warm white LEDs
Imager Field of View	48° H x 36° V nominal
Image Sensor	1600x1200 pixels
Minimum Print Contrast	16% minimum reflective difference
Skew Tolerance	±60°
Pitch Tolerance	±60°
Roll Tolerance	0° - 360°
Imaging Characteristics	
Graphics Format Support	Images can be exported as Bitmap, JPEG or TIFF
Image Quality	140 PPI on an 11.0 x 8.5 inches (27.9 x 21.6 cm) document @ 11.8 inches (30.0 cm)
User Environment	
Operating Temperature	32.0°F to 122.0°F (0.0°C to 50.0°C)
Storage Temperature	-40.0°F to 158.0°F (-40.0°C to 70.0°C)
Humidity	0% to 95% RH, non-condensing
Drop Specification	Designed to withstand 54 drops at 6.0 ft. (1.8 m) to concrete Corded: 10 ft. (3 m) MIL spec to concrete Cordless: 8 ft. (2.4 m) MIL spec to concrete
Tumble Specification	Designed to withstand 2,000 tumbles in 1.5 ft. (0.5 m) tumbler
Sealing	IP52
Electrostatic Discharge (ESD)	**Scanner:** ESD per EN61000-4-2, +/-16 KV Air, +/-8 KV Direct, +/-8 KV Indirect **Standard/Desktop Cradle:** ESD per EN61000-4-2, +/-16 KV Air, +/-8 KV Direct, +/-8 KV Indirect **Presentation Cradle:** ESD per EN61000-4-2, +/-16 KV Air, +/-8 KV Direct, +/-8 KV Indirect
Ambient Light Immunity	0 to 10,000 Foot Candles / 0 to 107,600 Lux
Approved Cleaners	Refer to the Product Reference Guide for the complete list of approved cleaners
Radio Specifications	
Bluetooth Radio	Standard Bluetooth Version 5.2 with BLE: Class 1 330 ft. (100 m) and Class 2 33 ft. (10 m), 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
Power	
PowerPrecision+ Li-Ion Battery	**Capacity:** 3500 mAh **Number of scans from full charge:** 100,000 scans at 60 scans per minute or 65,000 scans at 10 scans per minute[1] **Operating time per full charge[1]:** 108 hours **Charge time from empty to ready-to-scan for 14-hour shift:** 90 minutes over standard USB, 25 minutes over external 5V source, and 25 minutes over USB Type C **Charge time from empty to full charge:** 13 hours over standard USB, 3.5 hours over external 5V source, and 3.5 hours over USB Type C

Markets and Applications

Healthcare

- Positive Patient Identification (PPID)
- Medication administration
- Hospital Pharmacy: medication intake and inventory
- Hospital Laboratory: specimen track and trace
- Caregiver accountability and audit trail
- Dietary management
- Chain of custody of controlled substances
- Operating Room: surgical supply instruments and implants
- Patient admission: ER/triage/admissions
- Electronic record access
- Inventory management

PowerCap™ supercapacitor	**Capacity:** 1000 F Li-ion **Number of scans from full charge:** 6,000 scans at 60 scans per minute or 4,000 scans at 10 scans per minute[2] **Operating time per full charge[1]:** 6.7 hours **Charge time from empty to full charge:** 60 minutes over standard USB, 15 minutes over BC1.2 USB, 13 minutes over external 5V source, 13 minutes over external 12V source, and 14 minutes over USB Type C
Regulatory	
Environmental	EN IEC 63000:2018
Electrical Safety	EN 62368-1; IEC 62368-1 UL 62368-1, CAN/CSA-C22.2 No. 62368-1-19 EN 50663; EN 62479 FCC 47CFR Part 2.1093 RSS 102 Issue 6
LED Safety	IEC 62471; EN 62471
EMI/RFI	EN 55032; EN 55035 EN 61000-3-2; EN 61000-3-3; EN 61000-6-2 EN 60601-1-2 47 CFR Part 15, Subpart B, Class B ICES-003 Issue 7, Class B EN 300 328 EN 303 417 EN 301 489-1; EN 301 489-17
Decode Capabilities[3]	
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, Han Xin, Postal Codes, SecurPharm
OCR	OCR-A, OCR-B, MICR, US Currency
GS1	Digital Link
Digimarc	Digimarc barcodes
Minimum Element Resolution	Code 39: 3.0 mil Code 128: 3.0 mil Data Matrix: 5.0 mil QR Code: 5.0 mil
Accessories	
Cordless: Standard/desktop cradle, Presentation cradle, spare battery, spare PowerCap; document capture stands **Corded:** Gooseneck Intellistand, Cup	

Decode Range[4]	
3 mil Code 39	1.4 inches (3.5 cm) to 6.1 inches (15.5 cm)
5 mil Code 39	0.5 inches (1.3 cm) to 12.3 inches (31.2 cm)
10 mil Code 39	0.2 inches (0.5 cm) to 22 inches (55.9 cm)
20 mil Code 39	0.8 inches (2.0 cm)[5] to 31.5 inches (80.0 cm)
3 mil Code 128	1.7 inches (4.3 cm) to 6.2 inches (15.7 cm)
5 mil Code 128	0.9 inches (2.3 cm) to 10.6 inches (26.9 cm)
7.5 mil Code 128	0.4 inches (1.0 cm) to 14.9 inches (37.8 cm)
15 mil Code 128	3.4 inches (8.6 cm)[5] to 24.3 inches (61.7 cm)
4 mil PDF 417	1.9 inches (4.8 cm) to 6.4 inches (16.2 cm)
5 mil PDF 417	1.6 inches (4.1 cm) to 7.8 inches (19.8 cm)
6.7 mil PDF 417	1.0 inches (2.5 cm) to 10.2 inches (25.9 cm)
13 mil UPC (100%)	0.3 inches (0.8 cm) to 22.2 inches (56.4 cm)
5 mil DataMatrix	1.9 inches (4.8 cm) to 5.9 inches (15.0 cm)
7.5 mil DataMatrix	1.2 inches (3.0 cm) to 9 inches (22.9 cm)
10 mil DataMatrix	0.5 inches (1.3 cm) to 11.3 inches (28.7 cm)
20 mil DataMatrix	0 inches (0 cm) to 17.5 inches (44.4 cm)
5 mil QR Code	1.9 inches (4.8 cm) to 6.3 inches (16.0 cm)
10 mil QR Code	0.4 inches (1.0 cm) to 11.5 inches (29.2 cm)
20 mil QR Code	0 inches (0 cm) to 15.8 inches (40.1 cm)

Recommended Services

Zebra OneCare™ Select; Zebra OneCare Essential; additional Battery Maintenance services[2]

Warranty

Subject to the terms of Zebra's hardware warranty statement, the DS8288-HC and CR8288-HC are warranted against defects in workmanship and materials for a period of three years from the date of shipment. The DS8208-HC is warranted against defects in workmanship and materials for a period of five years from the date of shipment. For the complete Zebra hardware product warranty statement, please visit: www.zebra.com/warranty

Zebra DNA

Zebra DNA is a suite of highly intelligent firmware, software, utilities and apps exclusively engineered to ensure maximum performance from every Zebra scanner. For more information about Zebra DNA and its applications, please visit www.zebra.com/zebradna

Footnotes

1. Simulated profile of 10 scans in 10 seconds with a 50 second rest.
2. Available for PowerPrecision+ Li-Ion batteries only.
3. Refer to Product Reference Guide for complete list of symbologies.
4. Distance dependent on symbology type and size; range is reduced under lower ambient light level.
5. Field of view limited

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