

/ DELFISCAN DS8100-HC

**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 DelfiScan 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 DelfiScan DS8100-HC can seamlessly integrate into existing healthcare workflows to boost process efficiencies and ensure that patients are left undisturbed until necessary. The DelfiScan DS8100-HC is the ideal solution to enhance patient safety, the productivity of staff members and the efficiency of point-of-care operations.



IMPROVED PATIENT EXPERIENCES

Unparalleled Performance on Virtually Every Barcode in Any Condition

Only the DelfiScan DS8100-HC Series combines the power of an 800 MHz micro-processor, a high-resolution megapixel sensor and the exclusive PRZM technology. With this unique combination of hardware and advanced algorithms, the DelfiScan 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 DelfiScan 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, the 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.



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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 the 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 the 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 DelfiScan 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 Apple-

certified — enabling you to bring the advanced scanning technology to these mobile devices.

IMPROVE VIRTUALLY EVERY ASPECT OF PATIENT CARE WITH THE DELFISCAN DS8100-HC.

The DelfiScan 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

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UNRIVALED MANAGEABILITY

Visionary Visibility into Scanning and Battery Performance Metrics.

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 DelfiScan 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.

THE DELFISCAN DS8100-HC SERIES — WHEN YOUR OPERATIONS DEMAND THE ULTIMATE IN PERFORMANCE, WORKFORCE PRODUCTIVITY AND PATIENT CARE.

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SPECIFICATIONS CHART:

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

HANDS-FREE OPTIONS

Gooseneck Intellistand

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

48° H x 37° V Nominal

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

STORAGE TEMPERATURE

-40° to 158° F/-40° to 70° C

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SPECIFICATIONS CHART:

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 tumbler2

ENVIRONMENTAL SEALING

IP42

ELECTROSTATIC DISCHARGE (ESD)

DS8108-HC/DS8178-HC and Cradles: ESDper-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 hoursW

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

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

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SPECIFICATIONS CHART:

ACCESORIES

Standard Cradle, Presentation Cradle, Spare Battery, Document Capture Stands

DECODE CAPABILITIES⁴

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

DECODE RANGES (TYPICAL)⁵

SYMBOLGY	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./42.9cm
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./40.4cm
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./31.8cm

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 scanner and queries its asset information.