



# Motorola DS6878-HC

Cordless 2D imager for healthcare applications



## FEATURES

### Designed for deployment on a computer or workstation on wheels (COW or WOW)

USB charging capability eliminates a power supply and the typical cable management headaches normally associated with mounting a cordless scanner to a medical cart, computer cart or workstation (COW or WOW); horizontal or vertical installation provides the flexibility to keep the work surface clear while ensuring that the scanner is always in easy reach and charging

### Disinfectant-ready

IP43 sealing and a specially designed plastic housing allows safe wipe-down and cleansing with a wide variety of harsh chemicals (See Specification Chart for approved cleanser list)

### Prevent medical errors, improve patient safety and increase caregiver productivity

The DS6878-HC cordless imager from Motorola enables hospitals to automate data capture, improve data accuracy, increase productivity and streamline everyday processes in patient rooms, admitting, laboratories and the pharmacy. Its matchless feature set meets the unique requirements of healthcare facilities. An intuitive and ergonomic design combines with dependable and rapid capture of bar codes and other images, allowing caregivers to remain focused on the patient — not the technology. The DS6878-HC is easy to install virtually anywhere inside the hospital environment — the flexible base options enable easy mounting horizontally or vertically on walls, cabinets and workstations. Cordless freedom via Bluetooth allows users to easily move to the bar code, eliminating the hazards associated with cables as well as the need to disturb or inconvenience patients, while offering the flexibility required for rapid data capture in emergency situations. And with the ability to charge the scanner over the USB cable, the need for a separate power supply and the management headaches associated with mounting a cordless scanner to a computer or workstation on wheels (COW or WOW) are eliminated.

### Comprehensive high-performance data capture for a world of healthcare applications

The ability to capture any 1D or 2D bar code as well as signatures, documents, still photographs and video enables this single device to error-proof and simplify many processes throughout your facility — from medication administration to specimen collection, admitting, and inventory and dietary management. Built on Motorola's revolutionary SE4500 scan engine, the DS6878-HC re-defines imaging technology, offering easy first-time capture of any type of data through: laser-like performance on 1D and 2D bar codes; an intuitive aiming pattern; scanning in any type of lighting; the ability to capture even poor quality and damaged bar codes; and full omnidirectional scanning, eliminating the need to precisely align bar code and imager.

### Disinfectant-ready design prevents the spread of germs

The DS6878-HC is designed specifically to help protect patients and caregivers against dangerous and deadly illnesses. IP43 sealing and specially selected plastics that utilize proprietary molding technologies create a hygienic design that allows safe wipe-downs and sanitizing with bleach, alcohol, soap and water and more — without harming the housing or the sensitive scanning components.

**Lightweight ergonomic design**

Easy to hold regardless of hand size; reduces fatigue; enables all day scanning comfort to protect productivity in scan-intensive applications

**Superior durability**

Offers Motorola's best-in-class drop specification — the ability to survive 6 ft./1.8m drops to concrete — and IP43 sealing, ensuring reliable operation in spite of everyday spills, drops and bumps

**Comprehensive advanced data capture**

Captures 1D and 2D bar codes, signatures, documents such as drivers licenses and insurance cards, facial images for identification, video footage and more; eliminates the need to purchase multiple types of devices; supports the creation and maintenance of electronic medical records (EMRs)

**Superior high performance scanning on all bar codes**

The integrated revolutionary Motorola SE4500 imager eliminates the performance degradation common in 2D scanning, delivering: laser-like performance on both 1D and 2D codes; rapid and accurate capture of even poor quality and damaged bar codes; and full omnidirectional scanning, which eliminates the need to precisely align bar code and imager, improves ergonomics and protects productivity

**Built for all-day everyday use**

The DS6878-HC offers Motorola's best-in-class drop specification — 6 ft./1.8m drops to concrete. IP43 sealing protects sensitive electronic components from exposure to dust and liquids. The result is dependable operation, despite the inevitable everyday drops, bumps and spills.

**The Motorola end-to-end advantage**

When you choose Motorola, you get the end-to-end support required to ensure maximum uptime in the mission critical environment of healthcare, as well as a low total cost of ownership (TCO). The ability to remotely manage the Remote Scanner Management (RSM)-ready device from a central

location substantially reduces the time and costs typically associated with the management of mobile devices. In addition, Motorola's Service from the Start Advance Exchange Support helps keep your DS6878-HC scanners up and running at peak performance — and in the hands of your caregivers. This exceptional service minimizes downtime with next-business-day replacement of devices that require repair. Your scanners will also be protected from the unexpected with built-in Comprehensive Coverage, which includes normal wear and tear as well as coverage for internal and external components damaged through accidental breakage — significantly reducing unforeseen repair expenses.

# Motorola DS6878-HC Specifications

Physical Characteristics							
Dimensions:	Scanner: 7.3 in. H x 3.85 in. L x 2.7 in. W/ 18.5 cm H x 9.7 cm L x 6.9cm W Base-mounted vertically: 8.35 in. H x 3.4 in. W x 2 in. D/ 21.1 cm H x 8.6 cm W x 5 cm D Base-mounted horizontally: 2.0 in. H x 8.35 in. L x 3.4 in. W/ 5 cm H x 21.1 cm L x 8.6 cm W						
Weight:	Scanner: 8.4 oz (238 g) Typical Base: 6.4 oz. (183 g) Typical						
Voltage and Current (CR0078 Base):	<table border="1"> <thead> <tr> <th>Voltage</th> <th>Typical Current Charging/Non Charging</th> </tr> </thead> <tbody> <tr> <td>5 +/-10% VDC</td> <td>700 mA/260 mA with external power</td> </tr> <tr> <td>5 +/-10% VDC</td> <td>490 mA/260 mA with host power through cable</td> </tr> </tbody> </table>	Voltage	Typical Current Charging/Non Charging	5 +/-10% VDC	700 mA/260 mA with external power	5 +/-10% VDC	490 mA/260 mA with host power through cable
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5 +/-10% VDC	700 mA/260 mA with external power						
5 +/-10% VDC	490 mA/260 mA with host power through cable						
Color:	Healthcare White (shown)						
Performance Characteristics							
Light Source:	Aiming Pattern: 655 +/- 10 nm laser diode Illumination: 625 +/- 5 nm LED						
Field of View:	39.2° horizontal, 25.4° vertical						
Roll / Pitch / Skew:	360°, ±60°, ±60°						
Symbology Decode Capability							
1-D:	UPC/EAN (UPCA/UPCE/UPCE1/EAN-8-EAN-13/JAN-8/JAN13 plus supplementals, ISBN (Bookland), ISSN, Coupon Code, Code 39 (Standard, Full ASCII, UCC/EAN-128, ISBT-128 Concatenated), Code 93, Codabar/NW7, Code 11 (standard, Matrix 2 of 5), MSI Plessey, I 2of 5 (Interleaved 2of 5 / ITF, Discrete 2of 5 IATA, Chinese 2 of 5) GS1 Databar (Omnidirectional, Truncated, Stacked, Stacked Omnidirectional, Limited, Expanded, Expanded Stacked, Inverse), Base 32 (Italian Pharmacode)						
PDF417 (and Variants):	PDF417, microPDF417, Composite Codes (CC-A, CC-B, CC-C)						

Postal:	U.S. Postnet and Planet, U.K., Japan, Australian, Netherlands KIX code, Royal Mail 4 State Customer, UPU ICS 4 State Postal, USPS 4CB
2-D:	TLC-39, Aztec (Standard, Inverse), MaxiCode, DataMatrix/ECC 200 (Standard, Inverse), QR Code (Standard, Inverse and Micro)
Print Contrast:	25% minimum reflectance
Motion Tolerances:	Horizontal velocity: 5 in. (12.7 cm) per second
Interfaces Supported (Base):	RS-232C (Standard, Nixdorf, ICL, and Fujitsu); USB (Standard, IBM SurePOS, Macintosh), IBM 468x/469x, keyboard wedge and wand emulation. Synapse connectivity allows for connectivity to all of the above plus many non-standard interfaces.

Note: National Drug Codes (NDC) can be encoded in various symbologies. The DS6708-DL can be programmed to parse these codes using Advanced Data Formatting (ADF) rules.

Imaging Characteristics	
Graphics Format Support:	Images can be exported as Bitmap, JPEG, and TIFF
Image Transfer Speed:	USB 2.0: Up to 12 Megabits/second, limited to 3Mbps maximum by radio RS232: Up to 38.4K baud rate
Image Transfer Time:	Typical USB application is ~ 0.2 seconds with a compressed JPEG of 100 kb
Image Quality:	120 DPI on a 4 in. x 6 in. (10.2 x 15.2 cm) document @ 6.5 in./16.5 cm

User Environment	
Sealing:	IP43 (water and dust resistant)
Operating Temperature:	32° F to 122° F/0° C to 50° C
Storage Temperature:	-40° F to 158° F/-40° C to 70° C
Humidity:	5% to 95%, non-condensing
Drop Specifications:	Withstands multiple 6 ft./1.8m drops to concrete
Ambient Light Immunity:	Immune to normal artificial indoor and natural outdoor (direct sunlight) lighting
Approved Cleansers:	Super Sani-Cloth® Wipes; Clorox® Bleach; Windex® Antimicrobial; Windex® with Ammonia D; Virex® 5 Wipes; Dispatch®; Ethanol 80%; Gentle dish soap and water

**Regulatory**

Electrical Safety:	UL6950-1, CSA C22.2 No. 60950-1, EN60950-1/IEC60950-1
Laser Safety:	EN60825-1:1994 +A1: 2002 +A2 :2001, IEC60825-1, 21CFR1040.10 and 21CFR1040.11, CDRH Class II, IEC Class 2
EMI/RFI:	FCC Part 15 Class B, ICES-003 Class B, CISPR 22, CISPR 24; Medical electrical equipment: EN60601-1-2: 2002
Environmental:	Compliant with RoHS directive 2002/95/EEC
Radio:	Bluetooth™, Class 1, Version 2.1 + EDR, Adaptive Frequency Hopping (enables co-existence with 802.11 wireless networks), serial port & HID profiles; data rate — up to 3 Megabits/sec

**Accessories**

Power Supplies:	Power supplies are available to support faster charging or for applications that do not supply power over the host cable
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Mounting Brackets:	Wall-mount bracket; workstation bracket
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**Warranty**

Subject to the terms of Motorola's hardware warranty statement, the Symbol DS6878 is warranted against defects in workmanship and materials for a period of three years from the date of shipment. For the complete Motorola hardware product warranty statement, go to: <http://www.motorola.com/warranty>

**Recommended Services**

Customer Services:	Service from the Start Advance Exchange Support
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**DS6878-HC Typical Decode Ranges (Trigger Mode)**

Barcode Type	Barcode Density	DL Ranges Inches from scanner nose (typical)
Code 39	5 mil	0.5 - 6.3 in.
Code 128	6 mil	1.3 - 5.4 in.
Code 128	10 mil	* - 8.0 in.
60% UPC	7.8 mil	0.6 - 7.2 in.
100% UPC	13 mil	0.7 - 11 in.
PDF	5 mil	1.9 - 3.5 in.
PDF	6.6 mil	1.0 - 5.9 in.
PDF	10 mil	* - 8.0 in.
DataMatrix	10 mil	1.1 - 7.2 in.

\* Limited by FOV

**Bluetooth® v2.1 with EDR**

Provides a secure wireless connection to the scanner base station for cordless convenience and safety

**RSM (Remote Scanner Management) Ready**

Reduces total cost of ownership by enabling remote, network-based device management of all devices in all locations

**Supports 123Scan2 scanner configuration tool**

Enables rapid and easy customized set-up through a free, wizard-based PC software tool

***For more information on how you can put the DS6878-HC to work in your healthcare organization, please visit us on the web at [www.motorola.com/DS6878HC](http://www.motorola.com/DS6878HC) or access our global contact directory at [www.motorola.com/enterprisemobility/contactus](http://www.motorola.com/enterprisemobility/contactus)***

**SPECIFICATION SHEET**

Motorola DS6878-HC  
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