MOTOROLA DS6878-HC

Cordless 2D imager for healthcare applications

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, 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. When paired with the standard charging cradle, the DS6878-HC offers the ability to charge the scanner over the USB cable, eliminating the need for a separate power supply and reducing the management headaches associated with mounting a cordless scanner to a computer or workstation on wheels (COW or WOW).

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 and still photographs 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.

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

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)

Comprehensive advanced data capture
Captures 1D and 2D bar codes; optional hands-free presentation cradle enables signature and document capture, OCR to capture printed text and MICR for automated capture of check-related data and conversion of check-based transactions to electronic paperless debit transactions; supports creation of electronic medical records (EMRs); eliminates the need to purchase multiple devices

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

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,

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.

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):	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 A 12 volt power supply is required ONLY when paired with the optional presentation cradle.
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

1D:	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
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 DS6878-HC can be used 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
Ambient Light Immunity:	Immune to normal artificial indoor and natural outdoor (direct sunlight) lighting
Approved Cleansing Agents:	Isopropyl alcohol, bleach/sodium hypochlorite, hydrogen peroxide, gentle dish soap and water
Approved Brand-name Cleansers:	Super Sani-Cloth® Wipes; Clorox® Bleach; Windex® Antimicrobial; Windex® with Ammonia D; Virex® 5 Wipes; Dispatch®; Ethanol 80%

REGULATORY

Electrical Safety:	UL60950-1, 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:	BluetoothTM, 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
Mounting Brackets:	Wall-mount bracket; workstation bracket

WARRANTY

Subject to the terms of Motorola's hardware warranty statement, the Motorola 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.motorolasolutions.com/warranty

RECOMMENDED SERVICES

Customer Services: Service from the Start Advance Exchange Support

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

SOFTWARE STATEMENT

The DS6878-HC is compatible with Bedside Meds Administration software provided by the following vendors (partial list):

- Cerner
- Eclipsys
- Epic
- Meditech
- Siemens

which eliminates the need to precisely align bar code and imager, improves ergonomics and protects productivity

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 or access our global contact directory at www.motorola.com/enterprisemobility/contactus

For more information on the DS6878-HC cordless 2D imager, visit our global contact directory at www.motorolasolutions.com/enterprise/contactus, or visit us on the Web at www. motorola.com/ds6878hc

Part number SS-DS6878-HC. Printed in USA 02/11. MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. ©2011 Motorola Solutions, Inc. All rights reserved.

MOTOROLA