



MOTOROLA DS6707-HD

HANDHELD DIGITAL IMAGER SCANNER

VERSATILE SCANNER BRINGS AFFORDABLE HIGH DENSITY BAR CODE SCANNING TO ELECTRONIC COMPONENT ASSEMBLY

The affordable Motorola DS6707-HD brings a new level of efficiency to electronic component manufacturing by enabling the automated capture of virtually every type of bar code utilized in electronics manufacturing. The DS6707-HD supports the complete set of high density marks common in electronics manufacturing environments, including laser etched, ink marked, chemical etched and inkjet bar codes. Tuned to address the unique challenges in electronics component assembly, the DS6707-HD scanner is optimized to accurately capture high density and low contrast marks, including black bar codes on white backgrounds; white bar codes on black backgrounds; and etched bar codes with a very low contrast tone-on-tone effect — where there is very little difference in color between the mark and the background material on which it is printed.

ADD BAR CODE SCANNING AND IMAGING FOR COMPREHENSIVE DATA CAPTURE CAPABILITIES IN A SINGLE DEVICE

In addition to direct part marks, the versatile DS6707-HD offers support for 1D and 2D bar codes, enabling workers to scan bar codes that are printed directly on the electronic assembly as well as paper labels — with just one device. In addition, workers can easily document damaged components or assemblies in seconds with the integrated high resolution 1.3 megapixel image sensor.

EASY TO USE

The easy-to-use device requires virtually no training — regardless of whether your workers are decoding a bar code or capturing an image. The omni-directional scan pattern allows marks to be presented at any angle. A viewfinder provides true first-time accurate point-and-shoot aiming for image capture. And the optional Intellistand provides the ability to dynamically switch between handheld and hands-free modes as needed, providing maximum application flexibility.

RAPID RETURN ON INVESTMENT (ROI)

The rich functionality of DS6707-HD significantly reduces capital and operational expenses. Enterprises can standardize on a single device for the capture of multiple data types — including challenging direct part marks and dirty or damaged bar codes. The technology infrastructure is simplified — there is no need to purchase, manage and support additional devices, such as digital cameras and separate bar code scanners for different symbologies.

To help you protect your investment and maintain peak performance, Motorola offers Service from the Start Advance Exchange Support for the Motorola DS6707-HD. This multi-year agreement helps protect product uptime with next-business-day delivery of a replacement device. In addition, this service includes Motorola's unique Comprehensive Coverage, which includes normal wear and tear as well as coverage for internal and external components damaged through accidental breakage at no additional charge — significantly reducing your unforeseen repair expenses.

FEATURES

1.3 Megapixel imaging (1280 x 1024)

High resolution image sensor for robust image capture and bar code scanning; captures 1D bar codes down to 3 mil density and 2D bar codes down to 2mm x 2mm and as dense as 4 mils

Support for all major 1D, PDF, postal, 2D and DPM symbologies

Delivers application flexibility; eliminates need for multiple devices — and associated costs

RSM (Remote Scanner Management) Ready

Reduces total cost of ownership by enabling remote, network-based device management

Integrated viewfinder

Enables first time accurate aiming for image capture

6 ft./1.8m drop specification, tempered glass exit window

Designed to endure the rigors of everyday use for maximum reliability and uptimes; reduces downtime and TCO

PRODUCT SPEC SHEET
MOTOROLA DS6707-HD

For more information on how the DS6707-HD can benefit your business, please visit us on the web at www.motorolasolutions.com/DS6707HD or access our global contact directory at www.motorola.com/enterprisemobility/contactus

SPECIFICATIONS CHART

PHYSICAL CHARACTERISTICS	
Dimensions	6.55 in. H x 5.08 in. L x 2.82 W 16.6 cm H x 12.9 cm L x 7.1 cm W
Weight	6.4 oz./182 g
Power	5 ±10%VDC @ 350 mA
Color	Cash Register White or Twilight Black

PERFORMANCE CHARACTERISTICS	
Light Source	Aiming: 650 nm laser diode Illumination: 630 nm LED
Field of View (Vertical x Horizontal)	30° V x 40° H
Roll Pitch Yaw ¹	0 - 360° ± 65° or greater ± 60° or greater

SYMBOLGY DECODE CAPABILITY	
1D	UPC/EAN and with supplementals, Code 39, Code 39 Full ASCII, Tri-optic Code 39, GS1DataBar (formerly RSS), Code 128, Code 128 Full ASCII, GS1-128 (formerly UCC/EAN-128), Code 93, Codabar (NW1), Interleaved 2 of 5, Discrete 2 of 5, MSI, Codell, IATA, Bookland EAN, Code 32
PDF417 (and Variants)	PDF417 and microPDF417
Postal	U.S. Postnet and Planet, U.K., Japan, Australian, Dutch, 4 State Postal, Post US4
2D	MaxiCode, DataMatrix (ECC 200), QR Code, microQR, Aztec
Nominal Working Distance	See decode zone
Print Contrast	25% minimum reflectance
Motion Tolerances	Horizontal velocity: 5 in. (12.7 cm) per second
Interfaces Supported	USB and RS-232

IMAGING CHARACTERISTICS	
Image (Pixels)	1.3 Megapixel: 1280 pixels H x 1024 pixels V
Graphics Format Support	Images can be exported as Bitmap, Jpeg, and Tiff
Image Transfer Speed	USB 1.1: Up to 12 Megabits/second RS232: Up to 115 kb baud rate
Image Transfer Time	Typical USB application is ~ 0.2 seconds with a compressed Jpeg of 100 kb

USER ENVIRONMENT	
Operating Temp.	32° to 122° F/0° to 50° C
Storage Temp.	-40° to 158° F/-40° to 70° C
Humidity	5% to 95%, non-condensing
Drop Spec	Withstands multiple 6 ft. (1.8m) drops to concrete
Ambient Light Immunity	Immune to normal artificial indoor and natural outdoor (direct sunlight) lighting

1 - Roll (Tilt): Controlled by rotating the wrist clockwise or counterclockwise
Pitch: Controlled by dropping or raising the wrist
Skew (Yaw): Controlled by rotating the wrist from left to right or vice versa

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
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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
Mounting Options (Accessories)	Intellistand with adjustable height: 5–10 in. (12.7–25.4 cm) and adjustable angle: 0°–90°; desktop and wall-mount holders are also available.
Power Supplies	Power supplies are available for applications that don't supply power over the host cable.

WARRANTY	
Subject to the terms of Motorola's hardware warranty statement, the Motorola DS6707-HD handheld scanner is warranted against defects in workmanship and materials for a period of five years from the date of shipment. For the complete Motorola hardware product warranty statement, go to: http://www.motorolasolutions.com/warranty	

RECOMMENDED SERVICES	
Support Services	Service from the Start Advance Exchange Support

Label Density	Depth of Field	
	DS6707-HD	
	Paper Label	Metric
Code 39 - 3 mil	0.84" - 2.42"	U2.13 - 6.15 cm
Code 39 - 4 mil	0.42" - 3.13"	1.07 - 7.95 cm
Code 39 - 5 mil	0.29" - 3.38"	0.74 - 8.59 cm
Code 39 - 7.5 mil	Up to 4.38"	Up to 11.13 cm
Code 39 - 10 mil	0.59" - 4.96"	1.50 - 12.60 cm
Code 39 - 20 mil	0.42" - 8.21"	1.07 - 20.85 cm
100% UPC - 13 mil	0.21" - 5.13"	0.53 - 13.03 cm
PDF417 - 6.67 mil	0.63" - 3.10"	1.60 - 7.87 cm
PDF417 - 10 mil	0.46" - 3.54"	1.17 - 9.00 cm
PDF417 - 15 mil	1.33" - 4.46"	3.38 - 11.33 cm
Data Matrix - 4 mil	1.04" - 2.13"	2.64 - 5.41 cm
Data Matrix - 5 mil	0.79" - 2.50"	2.01 - 6.35 cm
Data Matrix - 7.5 mil	0.50" - 3.00"	1.27 - 7.62 cm
Data Matrix - 10 mil	0.54" - 3.50"	1.37 - 8.89 cm
QR Code - 4 mil	1.13" - 2.17"	2.87 - 5.51 cm
QR Code - 5 mil	0.88" - 2.54"	2.24 - 6.45 cm
QR Code - 7.5 mil	0.67" - 3.00"	1.70 - 7.62 cm
QR Code - 10 mil	0.46" - 3.42"	1.17 - 8.69 cm

* For more information, including decode zone pictorial, see the Product Reference Guide located in the Resources tab at www.motorolasolutions.com/ds6707hd.

Multiple on-board interfaces; universal cable compatible

Easy to install; future-proof — today's scanner can connect to tomorrow's host Integrated viewfinder,

360° omni-directional scanning; laser "bullseye" aiming pattern

Facilitates accurate, first time DPM and bar code capture

Optional hands-free Intellistand

Enables presentation scanning and automatic switching between hands-free and handheld modes





MOTOROLA DS6707-DP

HANDHELD DPM DIGITAL IMAGER SCANNER

CAPTURE 1D AND 2D BAR CODES, IMAGES AND THE MOST CHALLENGING DIRECT PART MARKS — WITH A SINGLE DEVICE

The Motorola DS6707-DP is a premier general purpose scanner, offering the maximum in data capture flexibility. The Motorola DS6707-DP is able to capture images and read virtually all 1D and 2D bar codes and direct part marks (DPM) — including the most challenging mark, dot peen. This highly versatile device is ideal in industries that depend on a wide variety of data types, such as healthcare, aerospace and automotive. With the DS6707-DP, workers can capture the right information at the right time, driving inefficiencies and errors out of business processes — improving accuracy as well as employee productivity.

SETS A NEW BAR FOR DPM FUNCTIONALITY

Comprehensive patented features enable the capture of literally every type of direct part mark (DPM), regardless of size, surface, contrast or density — including dot peen as well as laser etch, ink mark, chemical etch, inkjet mold, cast and thermal spray. The high-resolution 1.3 megapixel image sensor is capable of capturing very tiny and very dense codes. Advanced illumination provides the multiple lighting effects required to capture marks on any type of surface. The built-in diffuser provides the indirect light required to capture marks printed on very shiny and reflective surfaces. The proprietary design of the diffuser also directs additional lighting to the edges of bar codes marked on a curved surface, enhancing the image for easier decoding. Finally, a glancing direct light mode provides the bright light required to successfully read low contrast bar codes marked on any type of surface, including challenging polished materials.

EASY TO USE

The Motorola DS6707-DP is easy to use and requires virtually no training — regardless of whether your workers are capturing a standard bar code or a direct part mark. The omni-directional scan pattern allows marks to be presented at any angle. A viewfinder and aiming bulls-eye facilitates accurate point-and-shoot aiming for image capture. And the optional Intellistand provides the ability to dynamically switch between handheld and hands-free modes as needed, providing maximum application flexibility.

RAPID RETURN ON INVESTMENT (ROI)

The rich functionality of DS6707-DP significantly reduces capital and operational expenses. Enterprises can standardize on a single device for the capture of multiple data types — including challenging direct part marks and dirty or damaged bar codes. The technology infrastructure is simplified — there is no need to purchase, manage and support additional devices, such as separate bar code scanners for different symbologies and digital cameras.

To help you protect your investment and maintain peak performance, Motorola offers Service from the Start Advance Exchange Support for the Motorola DS6707-DP. This multi-year agreement helps protect product uptime with next-business-day delivery of a replacement device. In addition, this service includes Motorola's unique Comprehensive Coverage, which includes normal wear and tear as well as coverage for internal and external components damaged through accidental breakage at no additional charge — significantly reducing your unforeseen repair expenses.

FEATURES

1.3 Megapixel imaging (1280 x 1024)

High resolution image sensor for robust image capture and bar code scanning; captures 1D bar codes down to 3 mil density and 2D bar codes down to 2mm x 2mm and as dense as 4 mils

Support for all major 1D, PDF, postal, 2D and DPM symbologies

Delivers application flexibility; eliminates need for multiple devices — and associated costs

Omni-directional scan pattern

Eliminates the need to align bar code and scanner

Integrated advanced illumination system

Multiple lighting modes and an integrated diffuser enable the capture of direct part marks on literally any surface, including reflective, irregular and curves; enables capture of low and high contrast marks

RSM (Remote Scanner Management) Ready

Reduces total cost of ownership by enabling remote, network-based device management

Integrated viewfinder, 360° omni-directional scanning; laser "bullseye" aiming pattern

Facilitates accurate, first time DPM and bar code capture

PRODUCT SPEC SHEET
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DPM	Data matrix marks applied by dot peening; laser etch, ink marks, chemical etch, inkjet mold, cast and thermal spray
Nominal Working Distance	See decode zone
Print Contrast	25% minimum reflectance
Motion Tolerances	Horizontal velocity: 5 in. (12.7 cm) per second
Interfaces Supported	USB and RS-232
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Graphics Format Support	Images can be exported as Bitmap, Jpeg, and Tiff
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Image Transfer Time	Typical USB application is ~ 0.2 seconds with a compressed Jpeg of 100 kb
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Operating Temp.	32° to 122° F/0° to 50° C
Storage Temp.	-40° to 158° F/-40° to 70° C
Humidity	5% to 95%, non-condensing
Drop Spec	Withstands multiple 6 ft. (1.8m) drops to concrete

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- Pitch: Controlled by dropping or raising the wrist
- Skew (Yaw): Controlled by rotating the wrist from left to right or vice versa

Ambient Light Immunity	Immune to normal artificial indoor and natural outdoor (direct sunlight) lighting
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
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DECODE RANGES

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	DS6707-DP	
	English	Metric
Paper Label		
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Code 39 - 4 mil	Up to 1.83"	Up to 4.65 cm
Code 39 - 5 mil	Up to 1.96"	Up to 4.98 cm
Code 39 - 7.5 mil	Up to 2.96"	Up to 7.52 cm
Code 39 - 10 mil	Up to 3.50"	Up to 8.89 cm
Code 39 - 20 mil	Up to 6.21"	Up to 15.77 cm
100% UPC - 13 mil	Up to 3.59"	Up to 9.12 cm
PDF417 - 6.67 mil	Up to 1.59"	Up to 4.04 cm
PDF417 - 10 mil	Up to 2.21"	Up to 5.61 cm
PDF417 - 15 mil	0.92" - 3.05"	2.34 - 7.75 cm
Data Matrix - 4 mil	Up to 1.00"	Up to 2.54 cm
Data Matrix - 5 mil	Up to 1.29"	Up to 3.28 cm
Data Matrix - 7.5 mil	Up to 1.71"	Up to 4.34 cm
Data Matrix - 10 mil	Up to 2.13"	Up to 5.41 cm
QR Code - 4 mil	Up to 1.00"	Up to 2.54 cm
QR Code - 5 mil	Up to 1.25"	Up to 3.18 cm
QR Code - 7.5 mil	Up to 1.67"	Up to 4.24 cm
QR Code - 10 mil	Up to 2.00"	Up to 5.08 cm

* For more information, including decode zone pictorial, see the Product Reference Guide located in the Resources tab at www.motorolasolutions.com/ds6707dp.

Text enhancement technology
Ensures legibility of text in scanned documents

6 ft./1.8m drop specification, tempered glass exit window
Designed to endure the rigors of everyday use for maximum reliability and uptimes; reduces downtime and TCO

Multiple on-board interfaces; universal cable compatible
Easy to install; future-proof — today's scanner can connect to tomorrow's host

Optional hands-free Intellistand
Enables presentation scanning and automatic switching between hands-free and handheld modes

