DS6707-HD

Handheld digital imager scanner

Versatile scanner brings affordable high density bar code scanning to electronic component assembly

The affordable 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.

JADAK®
visionary thinking

DS6707-HD Specifications

Physical Characteristics

Dimensions:	6.55 in. H x 4.72 in. L x 2.82 in. W 16.6 cm H x 11.9 cm L x 7.1 cm W
Weight:	6.4 oz./182 g
Voltage and Current:	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]:	360°/±65°/±60°

Symbology Decode Capability

1-D:	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
2-D:	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

Sealing:	IP41 (Water and Dust Resistant)
Operating Temperature:	32° to 122° F/0° to 50° C
Storage Temperature:	-40° to 158° F/-40° 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

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

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.
Recommended Services:	Service from the Start Advance Exchange Support

Warranty

Subject to the terms of the hardware warranty statement, the DS6707-HD handheld scanner is warranted against defects in workmanship and materials for a period of five years from the date of shipment.

DS6707-HD Decode Zone

Label Density	Depth of Field DS6707-HD	
Paper Label	English	Metric
Code 39 - 3 mil	0.84" - 2.42"	2.13 - 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