

3800VHD

Very High Density Handheld Linear Imager



Distributed by:
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Features

Bright, Sharp and Focused Aiming Line - Easy to aim and scan codes in any lighting condition from darkness to full sunlight, tightly stacked bar code sheets, or small, high resolution labels.

Solid, Rugged Design - No moving parts inside and solid construction outside deliver years of reliable service in demanding work environments.

Powerful, Flexible Architecture - Connects and interfaces to all major PCs and commercial terminals easily and quickly with Windows[®] based programming tools or bar code programming menus.

Increased Reading Distances - Easily covers the full range of handheld scanning uses in industrial scanning applications.

Real World Reading Performance - Accommodates printer induced bar space variation, faded labels, short quiet zones, low contrast codes, dot matrix printing, and multipart forms with higher resolution, better optics, and improved decoding algorithms.

5 Year Warranty

The 3800VHD is a high performance scanner for industrial electronic manufacturing applications. It offers excellent reading performance on 3 mil. and larger bar codes, plus the durability needed for rough industrial applications, backed by a five year warranty. Linear Imaging technology combines a bright, sharp aiming line with high resolution reading. The 3800VHD has the industry's best drop spec to deliver excellent value for demanding, industrial applications.

Each decoded output scanner has the capability to connect as a keyboard wedge, use the serial port, output non decoded laser compatible signals, or operate in wand emulation mode. The 3800VHD connects to all popular PCs, Apple MAC, and portable data terminals. A non decoded mode can be used with external wedge decoders and portable terminals or other devices with decoding capability. Standard cables are used to reduce replacement expense.

The 3800VHD fits all applications found in high technology factories, from the high density codes on electronic sub assemblies to bar coded shipping labels in the packaging area. Typical applications are found in computer and telecommunications assembly plants, aerospace and automotive factories reading bar codes on assembly lines, test stations, document processing, packaging and shipping areas. The 3800VHD delivers performance and value over years of trouble free operation.

To learn how the 3800VHD can work for you, contact us at any of the locations listed on the back or visit us at www.handheld.com.

3800VHD Specifications

Performance

Illumination:	630 NM Visible Red LED
Receiving Device:	3648 element linear imager
Reading Distance:	From 1 in. (2.5 cm) to 7 in. (17.78 cm) on medium density codes
Reading Width:	5 in. (12.7 cm) code width at 7 in. (17.8 cm) distance
Resolution:	3 mil. at 3.5 in. (8.8 cm) distance
Skew Angle:	±55°
Pitch Angle:	±55°
Horizontal Velocity:	2 in. (5.1 cm) per second
Minimum Reflectance Difference:	30%
Scan Rate:	Programmable to 270 scans per second
Decode Rate:	270 decodes per second

Mechanical/Electrical

Dimensions	
Length:	5.3 in. (13.5 cm)
Height:	6 in. (15.2 cm)
Width:	3.1 in. (7.9 cm)
Weight:	6.3 oz. (179.2 g)
Housing:	Polycarbonate/ABS blend, UL 94V0
Power Requirements:	5Vdc ± 10% at scanner
Current Draw:	<u>Scanning</u> <u>Standby</u>
@270 s/s	275mA 125mA
@67 s/s	150mA 125mA
Power Supply	
Noise Rejection:	Maximum 100mV peak to peak, 10 to 100 kHz

Environmental

Temperature	
Operating:	+32°F to +122°F (0°C to +50°C)
Storage:	-4°F to 140°F (-40°C to +60°C)
Humidity:	0 to 95%
Mechanical Shock:	Operational after 50 drops from 5 ft. (1.53 m) to concrete
Ambient Illumination:	0 - 70,000 lux
ESD Protection:	Functional after 15kV discharge
Vibration:	Withstands 5G peak from 20 to 300 Hz
Agency:	FCC Class B, CE EMC Class B, CE Low Voltage Directive, IEC60825-1 LED Safety: Class 1, UL, cUL listed, TÜV
MTBF:	per MIL-HDBK-217F Ground Benign exceeds 100,000 hours
Symbologies:	Codabar, Code 3 of 9 including PARAF, Interleaved 2 of 5, Code 2 of 5, Matrix 2 of 5, Code 11, Code 93, Code 128, UPC, EAN/JAN, China Postal Code, RSS.
Interfaces:	All popular PCs and terminals via keyboard wedge, keyboard replacement/direct connect, Apple ADB, USB, TTL Level Serial Wedge, TTL level RS-232, wand emulation mode, and includes (HHLC) non decoded laser compatible output.
Warranty:	Five year factory warranty.

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