



IMAGETEAM[™] 3800ESD Series

Hand Held Linear Imager for ESD Sensitive and Clean Room Applications

The IMAGETEAM[™] 3800ESD is a high performance scanner designed for the stringent requirements of clean room assembly of sensitive electronic components. The IT3800ESD is constructed of conductive materials engineered to eliminate the build up of dangerous static charge on the scanner, and to quickly drain the charge from any other object with which it comes in contact. The IT3800ESD is assembled for use in a Class 100 clean room environment and is triple bagged for proper introduction into the end use environment.

Internal components of the IT3800ESD scanner are isolated from the conductive path formed by the case, output connector shield, and special shielded cable with drain wire. The scanner is rated for discharges up to 15 kV without damage.

Two models are available: the IT3800VHD/ESD which reads very high density bar codes, and the IT3800LR/ESD for more typical applications.

All materials used in the IT3800ESD are tested using the methods described in ASTM D257, Standard Test Methods for Conductance of Insulating Materials. The surface resistivity is rated at less than 10E5 ohms/square. Triboelectric residual charge is measured with a non contact Electrostatic Field Meter and is less than 5 volts on any surface.

Features & Benefits

High Resolution

Reads very high density bar codes 3 mil. and larger.

Clean Room Ready

Cleaned and triple bagged for Class 100 environments.

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 hand held scanning uses in industrial scanning applications.

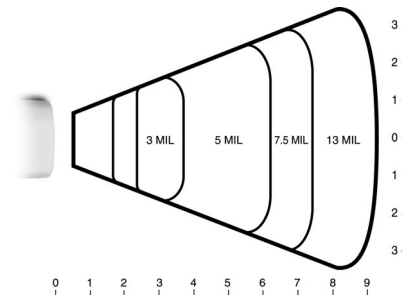
Real World Reading Performance

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

Performance

Illumination:	630 NM Visible Red LED
Receiving Device:	3648 element linear imager
Reading Distance:	1 in. (2.5 cm) to 8 in. (20.3 cm) on medium density codes
Reading Width:	5 in. (12.7 cm) code width at 7 in. (17.8 cm) distance
Resolution:	
VHD:	3 mil. at 3.5 in. (8.8 cm) distance
LR:	5 mil. at 3.5 in. (8.8 cm) distance
Skew Angle:	±30°
Pitch Angle:	±15°
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



Typical reading zones on good quality bar codes

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
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 25 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 128, UPC, EAN/JAN, China Postal Code.
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.

Worldwide Offices

Offices Serving North America

Skaneateles Falls, NY
Tel: (315) 685-8945
Fax: (315) 685-3172
Charlotte, NC
Tel: (704) 537-1444
Fax: (704) 532-4191

Offices Serving Europe, Middle East, and Africa

Europe
Tel: Int +31 (0) 40 24 24 486
Fax: Int +31 (0) 40 24 25 672
United Kingdom
Tel: Int +44 (0) 1 925 240055
Fax: Int +44 (0) 1 925 631280
France
Tel: Int +33 (0) 1 461 04111
Fax: Int +33 (0) 1 461 04120

Germany

Tel: Int +49 (0) 7 477 151377
Fax: Int +49 (0) 7 477 151378

Offices Serving Asia and the Pacific Rim

Hong Kong
Tel: Int +852 2511 3050/2511 3132
Fax: Int +852 2511 3557

Japan

Tel: Int +813 52127392
Fax: Int +813 32617372

Offices Serving Latin America

Naples, Florida
Tel: (941) 263-7600
Fax: (941) 263-9689