



# 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.*

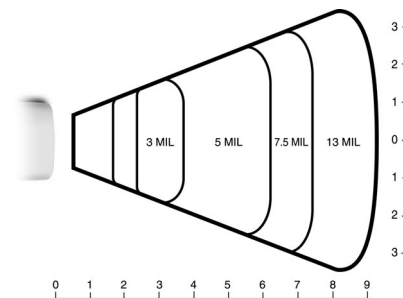
#### **Real World Reading Performance**

*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

<b>Illumination:</b>	630 NM Visible Red LED
<b>Receiving Device:</b>	3648 element linear imager
<b>Reading Distance:</b>	1 in. (2.5 cm) to 8 in. (20.3 cm) on medium density codes
<b>Reading Width:</b>	5 in. (12.7 cm) code width at 7 in. (17.8 cm) distance
<b>Resolution:</b>	
<b>VHD:</b>	3 mil. at 3.5 in. (8.8 cm) distance
<b>LR:</b>	5 mil. at 3.5 in. (8.8 cm) distance
<b>Skew Angle:</b>	±30°
<b>Pitch Angle:</b>	±15°
<b>Horizontal Velocity:</b>	2 in. (5.1 cm) per second
Minimum Reflectance	
<b>Difference:</b>	30%
<b>Scan Rate:</b>	Programmable to 270 scans per second
<b>Decode Rate:</b>	270 decodes per second



Typical reading zones on good quality bar codes

## Mechanical/Electrical

### Dimensions

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

### Environmental

#### Temperature

<b>Operating:</b>	+32°F to +122°F (0°C to +50°C)
<b>Storage:</b>	-4°F to 140°F (-40°C to +60°C)
<b>Humidity:</b>	0 to 95%
<b>Mechanical Shock:</b>	Operational after 25 drops from 5 ft. (1.53 m) to concrete
<b>Ambient Illumination:</b>	0 - 70,000 lux
<b>ESD Protection:</b>	Functional after 15kV discharge
<b>Vibration:</b>	Withstands 5G peak from 20 to 300 Hz
<b>Agency:</b>	FCC Class B, CE EMC Class B, CE Low Voltage Directive, IEC60825-1 LED Safety: Class 1, UL, cUL listed, TÜV
<b>MTBF:</b>	per MIL-HDBK-217F Ground Benign exceeds 100,000 hours
<b>Symbologies:</b>	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.
<b>Interfaces:</b>	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.
<b>Warranty:</b>	Five year factory warranty.

