

# IMAGETEAM<sup>™</sup> 3800E Linear Imager Engines

The IMAGETEAM<sup>™</sup> 3800E and the IMAGETEAM<sup>™</sup> 3800EPDF are OEM engines that allow the easy addition of bar code scanning to custom equipment. The IT3800E and IT3800EPDF are complete decoded output engines in a compact form. The IT3800EPDF optimizes PDF417 performance in all types of scanning applications. The IT3800E and 3800EPDF deliver the same linear imaging performance as the IMAGETEAM<sup>™</sup> 3800 Hand Held Linear Imager with a bright aiming line and fast scanning and decoding.

The IT3800E and IT3800EPDF are used for document or package reading, conveyor applications, ticket reading, price checking, or custom kiosk applications. Mounting features are provided. Power and data are fed through a convenient modular connector mounted on the board.

The IT3800E and IT3800EPDF contain a full suite of interfaces for PC, iMAC, USB, and other terminals that use keyboard wedge or RS-232 communications. The IT3800EPDF has an automatic trigger mode for constant scanning. The IT3800E and IT3800EPDF's other capabilities include powerful data formatting capabilities, bar code or serial programming, external trigger control, and Windows<sup>®</sup>-based programming tools.

## Features & Benefits

### **Bright, Sharp and Focused Aiming Line**

*Easy scanning by inexperienced users in any lighting condition.*

### **100,000 MTBF<sup>1</sup> and 2 Year Warranty**

*Long, reliable in-service life.*

### **Powerful, Flexible Architecture**

*Connects and interfaces to all major PCs and Apple computers. Windows-based programming tools provided for easy setup and configuration.*

### **PDF Decoding (IT3800EPDF only)**

*Fast, accurate, economical PDF reading.*

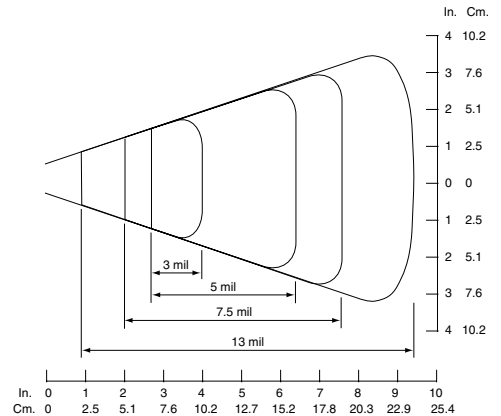
### **Real World Reading Performance**

*Reads faded labels, short quiet zones, dot matrix printing, and printer-induced bar space variations.*

<sup>1</sup> Mean Time Between Failure (in hours)

## Performance

<b>Illumination:</b>	630 NM Visible Red LED
<b>Receiving Device:</b>	3648 element linear imager
<b>Reading Distance:</b>	From 2 in. (5.1 cm) to 9 in. (22.8 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>	3 mil. at 3.5 in. (8.8 cm) distance
<b>Skew Angle:</b>	±55°
<b>Pitch Angle:</b>	±55°
<b>Horizontal Velocity:</b>	5 in. (12.7 cm) per second
<b>Minimum Reflectance Difference:</b>	30% for 3800E 40% for 3800EPDF
<b>Scan Rate:</b>	Programmable to 270 scans per second
<b>Decode Rate:</b>	270 decodes per second



## Mechanical/Electrical

### Dimensions

<b>Length:</b>	3.5 in. (8.8 cm)
<b>Height:</b>	1 in. (2.5 cm)
<b>Width:</b>	2.3 in. (5.8 cm)
<b>Power Requirements:</b>	5Vdc ± 10% at scanner

<b>Current Draw:</b>	Scanning	Standby
@270 s/s	275mA	125mA
@67 s/s	150mA	125mA

<b>Power Supply</b>	
<b>Noise Rejection:</b>	Maximum 100mV peak to peak, 10 to 100 kHz
<b>Triggering:</b>	Continuous autotrigger mode, or via serial command

## 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)

**Humidity:** 0 to 95%

**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, iMac, USB, TTL level RS-232, wand emulation mode, and includes (HHLC) non decoded laser compatible output.

**Warranty:** Two year factory warranty.

## Worldwide Offices

### Offices Serving North America

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