



IMAGETEAM[™] 3900

Fixed Position Linear Imager

The IMAGETEAM[™](IT) 3900 is a fixed position linear imager that adds bar code scanning to kiosks and other OEM applications. The IT3900 uses linear imaging technology to deliver a bright, sharp aiming line, and fast reading and decoding that makes scanning intuitive and simple.

Bar code scanning at a kiosk is typically done by someone without scanning experience. The scan line must be easy to see. The scanner must read quickly, without perfect orientation, and read a wide variety of bar code labels. Since the bar code is presented to the scanner, the scanner must have a large working range. The IT3900 does all this and more. The IT3900 has an automatic trigger mode for constant scanning, or can be used in a presentation mode, where the scanner turns on when a bar code is placed in its viewing area. Scanning can also be controlled by the host computer via serial commands.

The IT3900 has interface flexibility, too. The IT3900 can connect via keyboard wedge, RS-232 serial interface, or into USB ports in IBM-compatible PCs or Apple computers. Models are available for use with IBM 4683, 4693, or OCIA retail terminals.

Features & Benefits

Bright, Sharp and Focused Aiming Line

Easy scanning by inexperienced users in any lighting condition.

50,000 Mean Time Between Failure and 5 Year Warranty

Long, reliable in-service life.

Powerful, Flexible Architecture

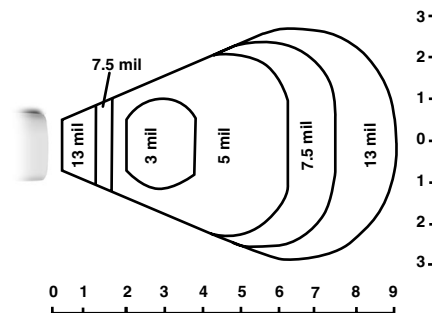
Connects and interfaces to all major PCs and Apple[®] computers. Windows[®]-based programming tools provided for easy setup and configuration.

Real World Reading Performance

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

Performance

Illumination:	630 NM Visible Red LED
Receiving Device:	3648 element linear imager
Reading Distance:	From 1 in. (2.5 cm) to 9 in. (22.8 cm) on medium density codes
Reading Width:	5 in. (12.7 cm) code width at 7 in. (17.8 cm) distance
Resolution:	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:	4.7 in. (11.9 cm)
Height:	1.5 in. (3.8 cm)
Width:	3.1 in. (7.9 cm)
Weight:	
Housing:	Polycarbonate/ABS blend, UL 940VO
Power Requirements:	5Vdc ± 10% at scanner

Current Draw:	<u>Scanning</u>	<u>Standby</u>	<u>Low Power</u>
@270 s/s	275mA	125mA	30mA
@67 s/s	150mA	125mA	30mA

Power Supply Noise Rejection:	Maximum 100mV peak to peak, 10 to 100 kHz
Triggering:	Continuous autotrigger mode, or via serial command
Mounting:	Three M-4 threaded inserts

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 5 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, iMac, USB, TTL level RS-232, wand emulation mode, and includes (HHLC) non decoded laser compatible output.
Warranty:	Five year factory warranty.

Worldwide Offices

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