



IMAGETEAM[™] 3900PDF

Fixed Position Linear Imager for PDF417

The IMAGETEAM[™](IT) 3900PDF is a fixed position linear imager that adds bar code scanning to kiosks and other OEM applications.

The 3900PDF model delivers fast and accurate reading of PDF417 codes as well as all standard linear symbologies. The specially designed hardware and firmware are optimized for exceptional PDF417 performance in all types of scanning applications. PDF417 reading is accomplished by sweeping the scanner up or down over the code, quickly gathering, decoding, and outputting the data to the host system.

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 IT3900PDF does all this and more.

The IT3900PDF has an automatic trigger mode for constant scanning. Scanning can also be controlled by the host computer via serial commands.

The IT3900PDF has interface flexibility, too. The IT3900PDF 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

PDF Decoding

Fast, accurate, economical PDF reading using an innovative audible feedback design.

Bright, Sharp and Focused Aiming Line

Easy scanning by inexperienced users in any lighting condition.

100,000 Mean Time Between Failure and 5 Year Warranty

Long, reliable in-service life.

Powerful, Flexible Architecture

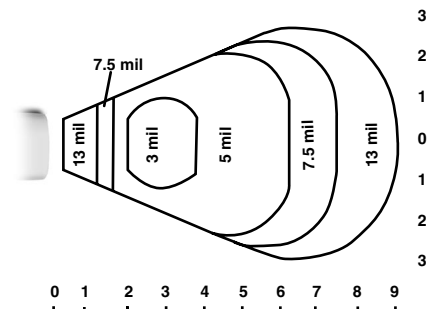
Connects and interfaces to all major PCs and Apple[®] computers. Windows[®]-based programming tools provided for easy setup and configuration.

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:	3 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:	40%
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)
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, manual trigger, 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
Symbolologies:	PDF417, 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, Reduced Space Symbolology (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:	Five year factory warranty.

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