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## 3800PDF

### Handheld Linear Imager for PDF417



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#### Features

*PDF Decoding - Fast, accurate, economical PDF reading using an innovative feedback design.*

*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.*

*Modern Design - Attractive styling compliments most existing POS environments, while user comfort is enhanced by the smooth handle curves, soft molded grip area, and comfortable trigger.*

*Powerful, Flexible Architecture - Connects and interfaces to all major PCs and terminals easily and quickly with Windows<sup>®</sup> based programming tools or bar code programming menus.*

*Increased Reading Distances - Easily covers the full range of handheld scanning uses in point of sale and general purpose 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*

The 3800PDF 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. The scanner ticks while collecting data, providing instant user feedback on performance. All symbologies are automatically discriminated with no reduction in decoding speed.

The 3800PDF is a high performance, handheld bar code scanner. The 3800PDF uses linear imaging technology to set a new standard for handheld scanners by combining a bright, sharp aiming line with high resolution imaging to deliver exceptional reading performance.

Each decoded output scanner has the capability to connect as a keyboard wedge, use the serial port, output non decoded laser compatible signals, or operate in wand emulation mode. The 3800PDF connects to all popular PCs, Apple MAC, USB, and portable data terminals. A non decoded mode can be used with external wedge decoders and portable terminals or other devices with decoding capability. Standard cables are used to reduce replacement expense.

The 3800PDF is excellent in handheld scanning applications, such as retail point of sale and in-store inventory. It operates from a tabletop holder in manual trigger mode, or may be placed in an adjustable stand for automated operation. The 3800PDF can be used indoors or outside in bright sunlight. Typical applications are retail point of sale, in-store inventory, document management, transaction processing of bar coded receipts, payment counter, outdoor sales kiosks, and reading of vehicle registrations.

## Performance

**Illumination:** 630 NM Visible Red LED  
**Receiving Device:** 3648 element linear imager

### PDF417 Bar Codes 3:1 Aspect Ratio

Reading Distance	10 mil	15 mil
Minimum	3 in. 7.6 cm	3 in. 7.6 cm
Maximum	4.5 in. 11.4 cm	5 in. 12.7 cm

**Skew Angle:**  $\pm 55^\circ$   
**Pitch Angle:**  $\pm 55^\circ$   
**Horizontal Velocity:** 2 in. (5.1 cm) per second  
**Minimum Reflectance Difference:** 40%  
**Scan Rate:** Programmable to 270 scans per second  
**Decode Rate:** Up to 270 decodes per second

## 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/ABS blend, UL 94V0

**Power Requirements:** 5Vdc  $\pm$  10% at scanner

Current Draw:	Scanning	Standby	In-Rush
@270 s/s	275mA	125mA	300mA
@67 s/s	150mA	125mA	300mA

### Power Supply

**Noise Rejection:** Maximum 100mV peak to peak, 10 to 100 kHz

## Environmental

### Temperature

**Operating:**  $+32^\circ\text{F}$  to  $+122^\circ\text{F}$  ( $0^\circ\text{C}$  to  $+50^\circ\text{C}$ )  
**Storage:**  $-4^\circ\text{F}$  to  $140^\circ\text{F}$  ( $-20^\circ\text{C}$  to  $+60^\circ\text{C}$ )

**Humidity:** 0 to 95%

**Mechanical Shock:** Operational after 50 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:** PDF417, 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, 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.

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