

## 3900

### Fixed Position Linear Imager

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The 3900 is a fixed position linear imager that adds bar code scanning to kiosks and other OEM applications. The 3900 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 3900 does all this and more. The 3900 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 3900 has interface flexibility, too. The 3900 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.



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**Adaptus**<sup>®</sup>  
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### Features

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- **Bright, Sharp and Focused Aiming Line:** Easy scanning by inexperienced users in any lighting condition.
- **Powerful, Flexible Architecture:** Connects and interfaces to all major PCs and Apple® computers. Windows®-based programming tools provided for easy setup and configuration.
- **100,000 Mean Time Between Failure and 5-Year Warranty:** Long, reliable in-service life.
- **Real World Reading Performance:** Reads faded labels, short quiet zones, dot matrix printing, and printer-induced bar space variations.

# 3900 Specifications

## Performance

<b>Illumination:</b>	630 NM Visible Red LED
<b>Receiving Device:</b>	3648 element linear imager
<b>Reading Distance:</b>	From 2.5 in. (6.35 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>	±30°
<b>Pitch Angle:</b>	±15°
<b>Horizontal Velocity:</b>	2 in. (5.1 cm) per second
<b>Minimum Reflectance Difference:</b>	30%
<b>Scan Rate:</b>	Programmable to 270 scans per second
<b>Decode Rate:</b>	270 decodes per second

## Mechanical/Electrical

### Dimensions

<b>Length:</b>	4.7 in. (11.9 cm)
<b>Height:</b>	1.5 in. (3.8 cm)
<b>Width:</b>	3.1 in. (7.9 cm)
<b>Housing:</b>	Polycarbonate/ABS blend, UL 940VO
<b>Power Requirements:</b>	5Vdc ± 10% at scanner

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

### Power Supply

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

## Environmental

<b>Temperature</b>	<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 5 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 93, Code 128, UPC, EAN/JAN, China Postal Code, RSS.
<b>Interfaces:</b>	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.
<b>Warranty:</b>	Five year factory warranty.

## Automation and Control Solutions

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