Honeywell

Xenon 1900 Color

Area-Imaging Scanner

Xenon™ 1900, Honeywell's most advanced area-imaging scanner, has been enhanced to deliver color imaging. Featuring Honeywell's ColorFusion™ Technology and a custom sensor that is optimized for bar code scanning, Xenon 1900 Color offers industry-leading innovation, performance and reliability.



Color imaging unlocks a new world of functionality. It allows enterprises to read color bar codes that were previously unreadable, such as a red bar code on a white background. Additionally, it eliminates the need to use a separate digital camera for color image capture, enabling streamlined workflow and improved productivity. Most importantly, Xenon 1900 Color provides color imaging functionality without sacrificing bar code scanning performance, ensuring that enterprises can meet the data capture needs of today and tomorrow.

Paired with advanced software algorithms that are optimized to take advantage of the scanner's custom image sensor, ColorFusion Technology enables color image capture without negatively impacting the aggressive bar code scanning enabled by Adaptus® Imaging Technology 6.0.

A new space-saving design mounts critical components on a single board, eliminating the need for connectors. A more reliable design with fewer components minimizes downtime and improves serviceability. Its small form factor ensures that the scanner fits well in virtually any sized hand, reducing operator fatigue.

Built with durability in mind, Xenon 1900 Color can withstand up to 50 drops to concrete from up to 6 feet. An IP41-rating provides added protection. With a solid-state design backed by a five-year warranty, Xenon 1900 Color is constructed to deliver years of uninterrupted performance.

Features

- **ColorFusion Technology:** Allows color images to be captured and high contrast color bar codes to be scanned, without negatively impacting bar code scanning performance
- **Custom Sensor Optimized for Bar Code Scanning:** Improves scanning aggressiveness and protects investment by providing supply chain stability
- **Two Focal Options:** High density and standard range options provide application-specific scanning, leading to improved productivity
- **Image Processing Software:** Offers advanced editing functionality such as cropping, brightening, rotating and sharpening to produce high-quality digital images
- **TotalFreedom™ 2.0:** Second-generation development platform enables the loading and linking of multiple applications on the scanner to enhance image processing, decoding or data formatting functionality, eliminating the need for host system modifications
- **Remote MasterMind™ Scanner Management Software:** Provides a quick and convenient solution for IT administrators seeking to manage all scanners within their network from a single remote location

Xenon 1900 Color Technical Specifications

Mechanical	
Dimensions (LxWxH)	104 mm x 71 mm x 160 mm (4.1˝ x 2.8˝ x 6.3˝)
Weight	147 g (5.2 oz)
Electrical	
Input Voltage	4 VDC to 5.5 VDC
Operating Power	2.3 W (450mA @ 5 VDC)
Standby Power	0.45 W (90mA @ 5 VDC)
Host System Interfaces	USB, Keyboard Wedge, RS232, IBM 46xx (RS485)
Environmental	
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	0% to 95% relative humidity, non-condensing
Drop	Designed to withstand 50 1.8 m (6´) drops to concrete
Environmental Sealing	IP41
Light Levels	0 to 100,000 lux (9,290 foot-candles)
Scan Performance	
Scan Pattern	Area Image (838 x 640 pixel array)
Motion Tolerance	Up to 610 cm/s (240 in/s) for 13 mil UPC at optimal focus
Scan Angle	HD Focus: Horizontal 41.4°; Vertical: 32.2° SR Focus: Horizontal: 42.4°; Vertical: 33°
Symbol Contrast	20% minimum reflectance difference
Pitch, Skew	45°, 65°
Decode Capability	Reads standard 1D, PDF, 2D, Postal and OCR symbologies *Note: Decode capabilities dependent on kit configuration
Warranty	5 year factory warranty

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance
For a complete listing of all supported bar code symbologies, please visit www.honeywellaidc.com/symbologies

Typical Performance*	High Density (HD)	Standard Range (SR)
Narrow Width		
5 mil Code 39	0 mm - 91.4 mm (0˝ - 3.6˝)	27.9 mm - 132.1 mm (1.1˝ - 5.2˝)
13 mil UPC	10.2 mm - 149.9 mm (0.4˝ - 5.9˝)	10.2 mm - 411.5 mm (0.4˝ - 16.2˝)
20 mil Code 39	10.2 mm - 213.4 mm (0.4˝ - 8.4˝)	12.7 mm - 558.8 mm (0.5˝ - 22˝)
6.7 mil PDF417	0 mm - 96.5 mm (0˝ - 3.8˝)	10.2 mm - 152.4 mm (0.4˝ - 6˝)
10 mil DM**	0 mm - 106.7 mm (0˝ - 4.2˝)	12.7 mm - 177.8 mm (0.5˝ - 7˝)
20 mil QR	10.2 mm - 172.7 mm (0.4˝ - 6.8˝)	15.2 mm - 340.4 mm (0.6˝ - 13.4˝)
Resolution 1D Code 39	3 mil (0.076 mm)	5 mil (0.127 mm)
Resolution 2D DM**	5 mil (0.127 mm)	6.7 mil (0.170 mm)

*Performance may be impacted by bar code quality and environmental conditions
**Data Matrix (DM)

For more information:
www.honeywellaidc.com

Honeywell Scanning & Mobility
9680 Old Bailes Road
Fort Mill, SC 29707
800.582.4263
www.honeywell.com

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