

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



For more information:
www.honeywellaidc.com

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)		

Honeywell Scanning & Mobility

9680 Old Bailes Road
Fort Mill, SC 29707
800.582.4263
www.honeywell.com

Honeywell

Xenon 1902

Wireless Area-Imaging Scanner

Xenon 1902, Honeywell's sixth-generation of area-imaging technology, is redefining the standard for hand-held scanners. Featuring a custom sensor that is optimized for bar code scanning, Xenon 1902 offers industry-leading performance and reliability for a wide variety of applications that require the versatility of area-imaging technology plus the freedom of Bluetooth® wireless connectivity.

Powered by Adaptus® Imaging Technology 6.0, Xenon 1902 delivers superior bar code scanning and digital image capture. Xenon 1902 incorporates a revolutionary decoding architecture and a custom sensor, enabling extended depth of field, faster reading, and improved scanning performance on poor quality bar codes. From high density linear to 2D bar codes found directly on the screen of a mobile device, Xenon 1902 decodes virtually all bar codes with ease.

Xenon 1902 incorporates a Bluetooth Class 2, v2.1 radio, enabling unrestricted movement up to 33 feet (10m) from the base. Honeywell's Shift-PLUS™ power management system provides up to 14 hours of battery life, maximizing productivity. For added convenience, a paging system helps locate misplaced scanners.

A new space-saving design that mounts critical components on a single board eliminates the need for connectors. A more reliable design with fewer components minimizes downtime and improves serviceability, resulting in increased productivity. Its small form factor ensures that the Xenon 1902 fits well in nearly any sized hand, reducing fatigue.

Built with durability in mind, Xenon 1902 can withstand up to 50 drops to concrete from 6 feet. An IP41-rating provides added protection. With a solid-state design backed by a three-year warranty, Xenon 1902 is constructed to deliver years of uninterrupted performance.



Features

- **Wireless Connectivity:** Bluetooth Class 2, v2.1 radio enables movement up to 33 feet (10m) from base, reduces interference with other wireless systems, and lowers total cost of ownership by allowing up to seven imagers to communicate to a single base
- **Long-Lasting Lithium-Ion Battery:** Powers up to 50,000 scans per full charge, ensuring maximum uptime
- **Flexible Power Management:** Allows user to limit radio power output of scanner, minimizing the likelihood of interference with other devices
- **Image Processing Software:** Offers advanced editing functionality—cropping, brightening, rotating, sharpening and more—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 1902 Technical Specifications

Wireless

Radio/Range	2.4 to 2.5 GHz (ISM Band) Adaptive Frequency Hopping Bluetooth v2.1; Class 2: 10 m (33') line of sight
Data Rate (Transmission Rate)	Up to 1 Mbit/s
Battery	1800 mAh Li-ion minimum
Number of Scans	Up to 50,000 scans per charge
Expected Hours of Operation	14 hours
Expected Charge Time	4.5 hours

Mechanical/Electrical

	Scanner	Charger/Communication Base
Dimensions (LxWxH)	104 mm x 71 mm x 160 mm (4.1" x 2.8" x 6.3")	132 mm x 102 mm x 81 mm (5.2" x 4" x 3.2")
Weight	214 g (7.5 oz)	179 g (6.3 oz)
Operating Power (Charging)	N/A	5 W (1A @ 5 V)
Non-Charging Power	N/A	0.5 W (0.1A @ 5 V)
Host System Interfaces	N/A	USB, Keyboard Wedge, RS232, IBM 46xx (RS485)

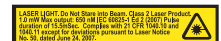
Environmental

Operating Temperature	0°C to 50°C (32°F to 122°F)	Charging: 5°C to 40°C (41°F to 104°F) Non-Charging: 0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Humidity	0 to 95% relative humidity, non-condensing	0 to 95% relative humidity, non-condensing
Drop	Designed to withstand 50 1.8 m (6') drops to concrete	Designed to withstand 50 1 m (3.3') drops to concrete
Environmental Sealing	IP41	IP41
Light Levels	0 to 100,000 lux (9,290 foot-candles)	N/A

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): Horizontal: 41.4°; Vertical: 32.2° (SR): Horizontal: 42.4°; Vertical: 33° (ER): Horizontal: 31.6°; Vertical: 24.4°
Print Contrast	20% minimum reflectance difference
Pitch, Skew	45°, 65°
Decode Capabilities	Reads standard 1D, PDF, 2D, Postal and OCR symbologies *Note: Decode capabilities dependent on kit configuration
Warranty	3 year factory warranty (Note: battery warranty is 1 year)

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



1912g laser-aimer model only

Typical Performance*	High Density (HD)	Standard Range (SR)	Extended Range (ER)
Narrow Width			
5 mil Code 39	0 mm - 104.1 mm (0" - 4.1")	27.9 mm - 134.6 mm (1.1" - 5.3")	94 mm - 203.2 mm (3.7" - 8.0")
13 mil UPC	10.2 mm - 167.6 mm (0.4" - 6.6")	10.2 mm - 439.4 mm (0.4" - 17.3")	25.4 mm - 525.8 mm (1.0" - 20.7")
20 mil Code 39	10.2 mm - 233.7 mm (0.4" - 9.2")	12.7 mm - 584.2 mm (0.5" - 23.0")	25.4 mm - 596.9 mm (1.0" - 23.5")
6.7 mil PDF417	0 mm - 109.2 mm (0" - 4.3")	10.2 mm - 154.9 mm (0.4" - 6.1")	71.1 mm - 233.7 mm (2.8" - 9.2")
10 mil DM**	0 mm - 127 mm (0" - 5.0")	12.7 mm - 190.5 mm (0.5" - 7.5")	63.5 mm - 287 mm (2.5" - 11.3")
20 mil QR	10.2 mm - 190.5 mm (0.4" - 7.5")	15.2 mm - 383.5 mm (0.6" - 15.1")	17.8 mm - 482.6 mm (0.7" - 19.0")
Resolution 1D Code 39	3 mil (0.076 mm)	5 mil (0.127 mm)	5 mil (0.127 mm)
Resolution 2D DM**	5 mil (0.127 mm)	6.7 mil (0.170 mm)	7.5 mil (0.191 mm)
*Performance may be impacted by bar code quality and environmental conditions **Data Matrix (DM)			



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