

# Xenon 1902 Color

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## Wireless Area-Imaging Scanner

Xenon™ 1902 Color, Honeywell's most advanced wireless 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 1902 Color offers industry-leading innovation, performance and reliability, plus the freedom of Bluetooth® wireless connectivity.

Color imaging unlocks a new world of functionality. It allows enterprises to read high contrast 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 1902 Color provides color imaging functionality without sacrificing the aggressive bar code scanning performance enabled by Adaptus® Imaging Technology 6.0, ensuring that enterprises can meet the data capture needs of today and tomorrow.

Xenon 1902 Color 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.

Built with durability in mind, Xenon 1902 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 three-year warranty, Xenon 1902 Color is constructed to deliver years of uninterrupted performance.



## Features

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- **ColorFusion Technology:** Allows color images to be captured and high contrast color bar codes to be scanned, without negatively impacting bar code scanning performance
- **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
- **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 1902 Color 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°
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](http://www.honeywellaidc.com/compliance)  
For a complete listing of all supported bar code symbologies, please visit [www.honeywellaidc.com/symbologies](http://www.honeywellaidc.com/symbologies)



For more information:

[www.honeywellaidc.com](http://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