

Xenon 1902h

Wireless Area-Imaging Scanner

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

Powered by Adaptus® Imaging Technology 6.0, Xenon 1902h delivers superior bar code scanning and digital image capture. Xenon 1902h incorporates a revolutionary decoding architecture along with 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, Xenon 1902h decodes virtually all bar codes found in healthcare environments with ease.

A new space-saving, reliable design with fewer components minimizes downtime and improves serviceability, resulting in increased productivity. Its small form factor ensures that the Xenon 1902h fits well in virtually any sized hand, reducing operator fatigue.

Built with durability in mind, Xenon 1902h can withstand up to 50 drops to concrete from distances as high as 6 feet. Additionally, Xenon 1902h incorporates disinfectant-ready housing which resists the harmful effects of harsh cleaning agents used commonly in healthcare environments. Backed by a three-year warranty, Xenon 1902h is constructed to deliver years of uninterrupted performance.



Features

- **Laser-Free Solution:** Class I LED illumination mitigates the risk of eye injury and, unlike laser-based devices, does not require training for safe operation
- **Long-Lasting Lithium-Ion Battery with Tool-Free Access:** Powers up to 50,000 scans per full charge ensuring maximum uptime; thumbwheel end-cap provides tool-free access to the battery, enabling employees to quickly and easily swap batteries
- **Flexible Radio Power Management:** Allows users to limit radio power output of scanner, minimizing the likelihood of interference with other devices
- **Disinfectant-Ready Housing:** Protects investment with durable construction that is better able to resist the harmful effects of harsh chemicals
- **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
- **Vertical Base:** Minimizes overall footprint and enables presentation scanning, making the scanner ideal for use in areas such as pharmacy

Xenon 1902h 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	Horizontal: 41.4°; Vertical: 32.2°
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

Typical Performance*	High Density (HD)
Narrow Width	
5 mil Code 39	0 mm - 104.1 mm (0" - 4.1")
13 mil UPC	10.2 mm - 167.6 mm (0.4" - 6.6")
20 mil Code 39	10.2 mm - 233.7 mm (0.4" - 9.2")
6.7 mil PDF417	0 mm - 109.2 mm (0" - 4.3")
10 mil DM**	0 mm - 127 mm (0" - 5.0")
20 mil QR	10.2 mm - 190.5 mm (0.4" - 7.5")
Resolution 1D Code 39	3 mil (0.076 mm)
Resolution 2D DM**	5 mil (0.127 mm)
*Performance may be impacted by bar code quality and environmental conditions	
**Data Matrix (DM)	



For more information:
www.honeywellaidc.com

Honeywell Scanning & Mobility

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Enhanced Xenon 1902h

Wireless Area-Imaging Healthcare Scanner

Honeywell's Xenon healthcare scanner has long been the choice for best-in-class healthcare organizations looking to improve their medication administration and positive patient identification workflows. Now, the next-generation Enhanced Xenon 1902h adds a number of features specifically requested by clinicians to further enhance patient comfort and improve common clinician workflows.

Setting the high watermark for scanning performance, the Enhanced Xenon 1902h utilizes Honeywell's sixth-generation Adaptus™ area-imaging technology for incredibly responsive reading of virtually all 1D, PDF, and 2D bar codes—even challenging high-density, low contrast, translucent or damaged codes. ColorFusion™ technology adds color imaging, allowing the scanner to read color bar codes that are becoming more prevalent in healthcare environments.

To enhance patient comfort while maintaining clinician productivity, the Enhanced Xenon 1902h can be quickly toggled into Patient Do-Not-Disturb mode. When in this mode, audible feedback is disabled and replaced by additional visual display options that provide positive status indication to the clinician. Additionally, a unique Scan Lamp mode can be activated with the touch of a button. When mounted above a workstation on wheels (VoW) display, the Scan Lamp casts white illumination to the work surface. This allows staff to read labels, verify medication, or enter data—all without having to turn on the room light and disturb resting patients.

The Enhanced Xenon 1902h is enclosed in a disinfectant-ready housing which resists the harmful effects of harsh cleaning agents commonly used in healthcare environments and minimizes the spread of infectious diseases. Backed by a three-year warranty, the Enhanced Xenon 1902h scanner is built to deliver years of uninterrupted performance in challenging healthcare environments.



Features

- **High Performance Color Area-Imaging:** Powered by Adaptus™ and ColorFusion™ technologies, Xenon delivers unrivaled scanning performance.
- **Disinfectant-Ready Housing:** Protects investment with durable construction that is better able to resist the harmful effects of harsh chemicals.
- **Patient Comfort Features:** Quickly toggle into Patient Do-Not-Disturb and Scan Lamp modes to maintain clinician productivity during night shifts, or when resting patients are present.
- **Efficient Wireless Performance:** Bluetooth™ wireless technology provides freedom of movement up to 10 meters (33 feet) from base.
- **Flexible Radio Power Management:** Limits the radio power output of the scanner to minimize interference with other devices.

Enhanced Xenon 1902h Technical Specifications

Wireless		
Radio/Range	2.4 to 2.5 GHz (ISM Band) Adaptive Frequency Hopping Bluetooth v2.1: Class 2: 10m (33') line of sight	
Data Rate (Transmission Rate)	Up to 1 Mbps	
Battery	2400 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 (Enhanced Xenon 1902h)	Charger/Communication Base (CCB01-010BT-HC)
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 4.0" x 3.2")
Weight	214 g (7.5 oz)	179 g (6.3 oz)
Operating Power (Charging)	N/A	5 W (1A @ 5V)
Non-Charging Power	N/A	0.5 W (0.1A @ 5 V)
Host System Interfaces	N/A	USB, Keyboard Wedge, RS232 TTL, IBM 46xx (RS485)
Environmental	Scanner (Enhanced Xenon 1902h)	Charger/Communication Base (CCB01-010BT-HC)
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 with Battery	For storage up to 90 days: -20°C to 35°C (-4°F to 95°F) For storage up to 1 year: -20°C to 20°C (-4°F to 68°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 1.0 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°	
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	3 year factory warranty	

Refer to the Honeywell Scanning & Mobility Compliance Center (www.honeywellaidc.com/compliance) to review and download any publicly available documentation pertaining to the certification of this product in a given country.

Refer to the Honeywell Scanning & Mobility Supported Symbologies Datasheet (www.honeywellaidc.com/symbologies) for a complete listing of all supported bar code symbologies.

Specifications are subject to change without notice.

Typical Performance*	High Density (HD)
Narrow Width	Depth of Field
5 mil Code 39	0 mm – 91.4 mm (0" – 3.6")
13 mil UPC	10.2 mm – 149.9 mm (0.4" – 5.9")
20 mil Code 39	10.2 mm – 213.4 mm (0.4" – 8.4")
6.7 mil PDF417	0 mm – 96.5 mm (0" – 3.8")
10 mil DM**	0 mm – 106.7 mm (0" – 4.2")
20 mil QR	10.2 mm – 172.7 mm (0.4" – 6.8")
Resolution 1D Code 39	3 mil (0.076 mm)
Resolution 2D DM**	5 mil (0.127 mm)
* Performance may be impacted by bar code quality and environmental condition	
** Data Matrix (DM)	

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