Honeywell

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 - 91 mm (0˝ - 3.6˝)
13 mil UPC	15 mm - 150 mm (0.6˝ - 5.9˝)
20 mil Code 39	20 mm - 208 mm (0.8˝ - 8.2˝)
6.7 mil PDF417	0 mm - 94 mm (0˝ - 3.7˝)
10 mil DM**	0 mm - 104 mm (0˝ - 4.1˝)
20 mil QR	18 mm - 173 mm (0.7˝ - 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 conditions
**Data Matrix (DM)

For more information:
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