

Xenon 1900g

Area-Imaging Scanner

Featuring a custom sensor that is optimized for barcode scanning, the Xenon™ 1900g scanner offers industry-leading performance and reliability for a wide variety of applications that require the versatility of area-imaging technology.

Powered by sixth-generation Adaptus™ imaging technology, the Xenon 1900g scanner delivers superior barcode scanning and digital image capture. The scanner incorporates a revolutionary decoding architecture and a custom sensor, enabling extended depth of field, faster reading and improved scanning performance on poor-quality barcodes. From high-density linear to 2D barcodes found directly on the screen of a mobile device, the Xenon 1900g scanner decodes virtually all barcodes with ease.

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 1900g scanner fits well in virtually any-sized hand, reducing operator fatigue.

Built with durability in mind, the Xenon 1900g scanner can withstand up to 50 drops to concrete from distances as high as 1.8 meters (6 feet). An IP41-rating provides added protection. With a solid-state design backed by a five-year warranty, the Xenon 1900g scanner is constructed to deliver years of uninterrupted performance.



From HD linear barcodes to 2D barcodes displayed on a smartphone screen, this tough area-imager scans virtually all barcodes with ease.

FEATURES & BENEFITS



A custom sensor optimized for barcode scanning improves scanning aggressiveness and protects your investment by providing supply chain stability.



Three focal options (high density, standard range and extended range) provide application-specific scanning, leading to improved productivity.



Integrated image processing software offers advanced editing functionality – cropping, brightening, rotating, sharpening and more – to produce high-quality digital images.



The TotalFreedom™ area-imaging development platform enables the loading and linking of multiple applications to enhance image processing, decoding and 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 1900g Technical Specifications

MECHANICAL

Dimensions (L x W x H): 104 mm x 71 mm x 160 mm (4.1 in x 2.8 in x 6.3 in)
Weight: 147 g (5.2 oz)

ELECTRICAL

Input Voltage: 4.0V DC to 5.5V DC
Operating Power: 2.3 W (450 mA @ 5V DC)
Standby Power: 0.45 W (90 mA @ 5V DC)
Host System Interfaces: USB, Keyboard Wedge, RS-232, 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 ft) drops to concrete
Ratchet Stand: Designed to withstand 50 1.2 m (4 ft) drops to concrete on each of the faces
Environmental Sealing: IP41
Light Levels: 0 to 100,000 lux (9,290 foot-candles)
Ratchet Cycles: The ratchet stand will support 10,000 cycles (each cycle is one full movement of the scanner either up or down) without losing its ability to keep the scanner in any ratchet position

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°
ER Focus: Horizontal: 31.6°; Vertical: 24.4°
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: Five-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 barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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TYPICAL PERFORMANCE*	HIGH DENSITY (HD)	STANDARD RANGE (SR)	EXTENDED RANGE (ER)
NARROW WIDTH			
5 mil code 39	0 mm – 104.1 mm (0 in – 4.1 in)	27.9 mm – 134.6 mm (1.1 in – 5.3 in)	94 mm – 203.2 mm (3.7 in – 8.0 in)
13 mil UPC	10.2 mm – 167.6 mm (0.4 in – 6.6 in)	10.2 mm – 439.4 mm (0.4 in – 17.3 in)	25.4 mm – 525.8 mm (1.0 in – 20.7 in)
20 mil Code 39	10.2 mm – 233.7 mm (0.4 in – 9.2 in)	12.7 mm – 584.2 mm (0.5 in – 23.0 in)	25.4 mm – 596.9 mm (1.0 in – 23.5 in)
6.7 mil PDF417	0 mm – 109.2 mm (0 in – 4.3 in)	10.2 mm – 154.9 mm (0.4 in – 6.1 in)	71.1 mm – 233.7 mm (2.8 in – 9.2 in)
10 mil DM**	0 mm – 127 mm (0 in – 5.0 in)	12.7 mm – 190.5 mm (0.5 in – 7.5 in)	63.5 mm – 287 mm (2.5 in – 11.3 in)
20 mil QR	10.2 mm – 190.5 mm (0.4 in – 7.5 in)	15.2 mm – 383.5 mm (0.6 in – 15.1 in)	17.8 mm – 482.6 mm (0.7 in – 19.0 in)
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 barcode quality and environmental conditions.

** Data Matrix (DM)

For more information

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Honeywell Safety and Productivity Solutions

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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

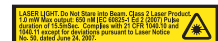
	Scanner	Charger/Communication Base
Dimensions (LxWxH)	104 mm x 71 mm x 160 mm (4.1" x 2.8" x 6.3")	132 mm x 102 mm x 81 mm (5.2" x 4" x 3.2")
Weight	214 g (7.5 oz)	179 g (6.3 oz)
Operating Power (Charging)	N/A	5 W (1A @ 5 V)
Non-Charging Power	N/A	0.5 W (0.1A @ 5 V)
Host System Interfaces	N/A	USB, Keyboard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



1912g laser-aimer model only

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)	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")
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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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