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.

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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.

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)