XENON EXTREME PERFORMANCE (XP) 1952g-bf

Battery-Free Wireless Area-Imager Scanner

The Honeywell Xenon™ Extreme Performance (XP) 1952g-bf area-imager scanner incorporates the latest in battery-free technology, offering the freedom of Bluetooth® low-energy wireless technology without the maintenance hassles or long recharge time associated with traditional batteries.



The Xenon XP 1952g-bf wireless scanner offers fast, accurate barcode scanning from up to 10 meters (33 feet) from the base – without the recharge time, expense, and environmental impact of a battery.

Like all other Xenon XP series scanners, the 1952g-bf scanner delivers aggressive barcode scanning performance – even on poor-quality or damaged barcodes. An integrated Bluetooth low-energy Class 2 radio gives users complete freedom of movement up to 10 meters (33 feet) from the base. For added convenience, a paging system on the base activates auditory signals that help to locate a misplaced scanner.

The scanner runs on supercapacitors versus a battery and is capable of achieving a full charge in less than two minutes via the USB port (under 30 seconds when using a powered USB port or external wall adapter). The Xenon XP 1952g-bf scanner typically provides at least 450 scans of UPC/EAN codes without recharging. This makes the scanner ideal for moderate scanning applications such as self checkout, as the secondary scanner to a bioptic scanner, or in support of shipping and receiving functions at warehouses. With no battery, a common maintenance hassle is removed, and the scanner is lighter and more environmentally friendly.

FEATURES AND BENEFITS

When fully charged, the scanner can typically scan over 450 UPC/EAN codes without the need for recharging – more than enough to check out 25 customers.

Supercapacitors hold their charge for hours when fully charged. So operators who forget to place their scanner in the charger prior to break won't impact operations upon return.

Two independently configurable recharge alerts remind the operator to place the scanner back into the base for charging, ensuring continuous operation.

The Xenon XP 1952g-bf scanner is fully charged in under two minutes with a simple USB connection, and under 30 seconds when a powered USB or external power supply is used.

When the scanner is placed in the base, the ready-to-scan LED typically flashes in less than 20 seconds to notify the operator that there is sufficient power to support over 100 scans.

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Xenon XP 1952g-bf Technical Specifications

BATTERY-FREE*

User Indicators: Good Decode LEDs, Rear View LEDs, Beeper (adjustable tone and volume), Vibration (optional and adjustable), Charge Status Indicator

Number of Scans (based on default settings):

- **Fully Charged:** Typically more than 450 scans
- **Ready-to-Go Notification:** At least 25 scans (@1 scan/sec)
- **First Recharge Alert (30%):** Typically occurs after 300 scans ±10%
- **Second Recharge Alert (10%):** Typically occurs after 400 scans ±10%

Expected Full Charge Time (completely discharged):

- **Standard USB:** Typically under 120 seconds
- **Powered USB/External Wall Power Adapter:** Typically under 30 seconds

Expected Ready-to-Go Charge Time:

- **Standard USB:** Typically under 25 seconds
- **Powered USB/External Wall Power Adapter:** Typically under 15 seconds

Use Time (5 scans/transaction, 1 min/transaction):

- **Fully Charged:** Typically 25 minutes of usage
- **Ready-to-Go Notification:** Typically 5 minutes of usage left
- **First Recharge Alert (flashing yellow LED):** Typically 10 minutes of usage left
- **Second Recharge Alert (flashing red LED):** Typically 5 minutes of usage left

Charge Cycles (from completely discharged): 500,000

WIRELESS

Radio/Range: 2.4 GHz (ISM Band) Adaptive Frequency Hopping Bluetooth v4.2; Class 2: 10 m (33 ft) line of sight

ENVIRONMENTAL

Scanner:

- **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
- **Environmental Sealing:** IP42
- **Light Levels:** 0 to 100,000 lux (9,290 ft-candles)
- **Electrostatic Discharge (ESD) (Scanners and Cradles):** ±8 kV indirect coupling plane, ±15 kV direct air

Charge and Communication Base:

- **Operating Temperature:**
  - **Charging:** 0°C to 50°C (32°F to 122°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)
- **Humidity:** 0 to 95% relative humidity, non-condensing
- **Drop:** Designed to withstand 50 1 m (3.3 ft) drops to concrete
- **Environmental Sealing:** IP41
- **Light Levels:** N/A

MECHANICAL/ELECTRICAL

Scanner:

- **Dimensions:** 104 mm x 71 mm x 160 mm (4.1 in x 2.8 in x 6.3 in)
- **Weight:** 195 g (6.9 oz)
- **Operating Power:** N/A
- **Non-Charging Power:** N/A
- **Host System Interface:** N/A

Charge and Communication Base:

- **Dimensions:** 132 mm x 102 mm x 81 mm (5.2 in x 4 in x 3.2 in)
- **Weight:** 180 g (6.3 oz)
- **Operating Power:** 5W (1A @ 5V)
- **Non-Charging Power:** 0.5W (0.1A @ 5V)
- **Host System Interface:** USB, Keyboard Wedge, RS-232, IBM 46xx (RS485)

SCAN PERFORMANCE

Scan Pattern: Area Image (1280 x 800 pixel array)

Motion Tolerance: Up to 400 cm/s (157 in/s) for 13 mil UPC at optimal focus

Scan Angle:

- **HD:** Horizontal: 48°; Vertical: 30°
- **SR:** Horizontal: 48°; Vertical: 30°

Symbol Contrast: 20% minimum reflectance difference

Roll, Pitch, Skew: ±360°, ±45°, ±65°

Decode Capabilities: Reads standard 1D, PDF, 2D, Postal Digimarc, DotCode, and OCR symbologies

(Note: Decode capabilities dependent on configuration.)

Warranty:

- **Scanner:** Three-year factory warranty
- **Supercapacitor:** Five-year factory warranty

DECODE RANGES (DoF)

TYPICAL PERFORMANCE*	STANDARD RANGE (SR)	HIGH DENSITY (HD)
NARROW WIDTH		
3 mil Code 128	56 mm – 132 mm (2.2 in – 5.2 in)	27 mm – 131 mm (1.1 in – 5.1 in)
5 mil Code 39	28 mm – 242 mm (1.1 in – 9.5 in)	14 mm – 219 mm (0.6 in – 8.6 in)
10 mil Code 39	0 mm – 443 mm (0 in – 17.4 in)	0 mm – 389 mm (0 in – 15.3 in)
13 mil UPC	0 mm – 490 mm (0 in – 19.3 in)	0 mm – 368 mm (0 in – 14.5 in)
15 mil Code 128	0 mm – 543 mm (0 in – 21.4 in)	0 mm – 417 mm (0 in – 16.4 in)
20 mil Code 39	4 mm – 822 mm (0.1 in – 32.4 in)	6 mm – 604 mm (0.2 in – 23.8 in)
5 mil PDF417	54 mm – 160 mm (2.1 in – 6.3 in)	30 mm – 155 mm (1.2 in – 6.1 in)
6.7 mil PDF417	34 mm – 220 mm (1.4 in – 8.7 in)	17 mm – 211 mm (0.7 in – 8.3 in)
7.5 mil DM**	49 mm – 172 mm (1.9 in – 6.8 in)	27 mm – 160 mm (1.0 in – 6.3 in)
10 mil DM**	29 mm – 245 mm (1.1 in – 9.7 in)	12 mm – 211 mm (0.5 in – 8.3 in)
20 mil QR	0 mm – 438 mm (0 in – 17.2 in)	0 mm – 331 mm (0 in – 13.0 in)

* Performance may be impacted by barcode quality and environmental conditions.

** Data Matrix (DM)

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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