Honeywell Xenon XP 1950 & 1952

Honeywell Xenon XP 1950 & 1952 - Powerful and versatile barcode scanner

- Superior scanning performance for unclear and damaged barcodes
- Built for many years of continuous use
- Problem-free scans of mobile phone displays and loyalty cards
- Bluetooth model with 65,000 scans per battery charge
- Disinfectant-resistant healthcare models

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Features

Readable codes: 1D, 2D, Post, Stack, Digimarc

Reading distance: 0 - 4.4 m

Feedback: LEDs, beeper, opt. vibration

Connectivity: USB, Keyboard Wedge, RS-232, RS485 / Bluetooth

Battery (wireless models): 65,000 scans / 18 h

Protection: IP52, drop-proof up to 1.8 m

Operating temperature: 0 - 50 °C

Dimensions: 104 x 71 x 160 mm

Weight: 147 / 212 g

Optional accessories

Brackets

Stand

Holster

Charging station

4-fold battery charging station

Honeywell Xenon XP 1950 & 1952

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Xenon Extreme Performance (XP) 1950g

MECHANICAL/ELECTRICAL

Dimensions (L x W x H): 104.1 mm x 71.1 mm x 160 mm (4.1 in x 2.8 in x 6.3 in)

Scanner Weight: 147.42 g (5.2 oz)

Input Voltage: 4.4V DC – 5.5V DC

Operating Power (Charging) Bases: 2.5W (500 mA @ 5V DC)

Host System Interfaces: USB, Keyboard Wedge, RS-232, RS485 support for TGCS (IBM) 46XX

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

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)

Electrostatic Discharge (ESD) (Scanners and Cradles): ±8 kV indirect coupling plane,
±15 kV direct air

Humidity: 0% to 95% relative humidity, non-condensing

Tumble Spec: 2,000 0.5 m (1.6 ft) tumbles (impacts)

Drop: Engineered to withstand 50 1.8 m (6 ft) drops to concrete

Environmental Sealing: IP52

Light Levels: 0 to 100,000 lux (9,290 foot-candles)

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 (Minimum)

SR: Horizontal: 42°; Vertical: 27°

HD: Horizontal: 42°; Vertical: 27°

UD: Horizontal: 40° ; Vertical: 26°

Print Contrast: 15% minimum reflectance difference

Roll, Pitch, Skew: ±360°, ±45°, ±65°

Decode Capabilities: Reads standard 1D, PDF, 2D, Postal Digimarc, DOT Code, and OCR symbologies
Note: Decode capabilities dependent on configuration

Warranty: 5-year factory warranty

DECODE RANGES (DoF)

TYPICAL PERFORMANCE*	STANDARD RANGE (SR)	HIGH DENSITY (HD)	ULTRA HIGH DENSITY (UD)***
NARROW WIDTH			
2 mil Code 39	n/a	n/a	20 mm - 60 mm (0.8 in - 2.4 in)
3 mil Code 39	56 mm – 132 mm (2.2 in – 5.2 in)	27 mm – 131 mm (1.1 in – 5.2 in)	5 mm - 90 mm (0.2 in - 3.5 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)	5 mm - 115 mm (0.2 in - 4.5 in)
10 mil Code 39	0 mm – 443 mm (0 in – 17.4 in)	0 mm – 389 mm (0 in – 15.3 in)	0 mm - 205 mm (0 in - 8.1 in)
13 mil UPC	0 mm – 490 mm (0 in – 19.3 in)	0 mm – 368 mm (0 in – 14.5 in)	0 mm - 190 mm (0 in - 7.5 in)
7.5 mil Code 128	25 mm - 295 mm (0.9 in - 11.6 in)	5 mm - 260 mm (0.2 in - 10.2 in)	0 mm - 120 mm (0 in - 4.7 in)
15 mil Code 128	0 mm – 543 mm (0 in – 21.4 in)	0 mm – 417 mm (0 in – 16.4 in)	0 mm - 200 mm (0 in - 7.9 in)
20 mil Code 39	4 mm – 822 mm (0.2 in – 32.4 in)	6 mm – 604 mm (0.2 in – 23.8 in)	5 mm - 340 mm (0.2 in - 13.4 in)
5 mil PDF417	54 mm – 160 mm (2.1 in – 6.3 in)	30 mm – 155 mm (1.2 in – 6.1 in)	5 mm - 85 mm (0.2 in - 3.3 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)	0 mm - 100 mm (0 in - 3.9 in)
5 mil DM**	n/a	45 mm - 100 mm (1.8 in - 3.9 in)	15 mm - 70 mm (0.6 in - 2.8 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 mm - 90 mm (0.4 in - 3.5 in)
10 mil DM**	29 mm – 245 mm (1.1 in – 9.7 in)	12 mm – 211 mm (0.5 in – 8.3 in)	5 mm - 105 mm (0.2 in - 4.1 in)
4 mil QR	n/a	n/a	25 mm - 55 mm (1.0 in - 2.2 in)
10 mil QR	35 mm - 250 mm (1.4 in - 9.8 in)	10 mm - 185 mm (0.4 in - 7.3 in)	0 mm - 105 mm (0 in - 4.1 in)
20 mil QR	0 mm – 438 mm (0 in – 17.2 in)	0 mm – 331 mm (0 in – 13.0 in)	0 mm - 160 mm (0 in - 6.3 in)

* Performance may be impacted by barcode quality and environmental conditions.
** Data Matrix (DM)
*** Best ability to decode small barcode.

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Xenon (XP) 1952g

WIRELESS

Radio/Range: 2.4GHz Bluetooth radio v4.2 with Adaptive Frequency Hopping. Class 1: 100m line of sight (default), programmable to Class 2: 10m line of sight

Power Options:

- **Battery:** 2400 mAh Li-ion minimum
- **Number of Scans:** Up to 65,000 scans per charge
- **Expected Duration of Operation:** 18 hours
- **Expected Charge Time:** 4.5 hours

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

MECHANICAL/ELECTRICAL

Dimensions (L x W x H):

- **Scanner:** 104.1 mm x 71.1 mm x 160 mm (4.1 in x 2.8 in x 6.3 in)
- **Presentation Base:** 132 mm x 101 mm x 81 mm (5.2 in x 4.0 in x 3.2 in)
- **Desktop/Wall Mount Base:** 231 mm x 89 mm x 83 mm (9.1 in x 3.5 in x 3.3 in)

Weight:

- **Scanner:** 212.62 g (7.5 oz)
- **Presentation Base:** 179 g (6.3 oz)
- **Desktop/Wall Mount Base:** 260 g (9.2 oz)

Operating Power (Charging) Bases: 2.5 W (500 mA @ 5V DC)

Non-Charging Power (Bases): 0.75 W (150 mA @ 5V DC)

Host System Interfaces : USB, Keyboard Wedge, RS-232, IBM 46xx (RS485)

ENVIRONMENTAL

Operating Temperature:

- **Scanner:** 0°C to 50°C (32°F to 122°F)
- **Bases:**
  - **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)

Electrostatic Discharge (ESD) (Scanners and Cradles): ±8 kV indirect coupling plane, ±15 kV direct air

Humidity: 0 to 95% relative humidity, non-condensing

Tumble Spec: 2,000 0.5 m (1.6 ft) tumbles (impacts)

Drop: Engineered to withstand 50 1.8 m (6 ft) drops to concrete

Environmental Sealing (Scanner): IP52

Light Levels: 0 to 100,000 lux (9,290 foot-candles)

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:

- **SR:** Horizontal: 42° ; Vertical: 27°
- **HD:** Horizontal: 42° ; Vertical: 27°
- **UD:** Horizontal: 40° ; Vertical: 26°

Print Contrast: 15% minimum reflectance difference

Roll, Pitch, Skew: ±360°, ±45°, ±65°

Decode Capabilities: Reads standard 1D, PDF, 2D, Postal Digimarc, DOT Code, and OCR symbologies
(Note: Decode capabilities dependent on configuration.)

***Xenon XP 1952g UV:** Built to detect UV watermarks embedded in 1D and 2D barcodes

Warranty: Three-year factory warranty
(Note: Battery Pack warranty is one year.)

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