



# Xenon Extreme Performance (XP) 1950g Technical Specifications

## 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

For a complete listing of all compliance approvals and certifications, please visit [www.honeywellaidc.com/compliance](http://www.honeywellaidc.com/compliance).

For a complete listing of all supported barcode symbologies, please visit [www.honeywellaidc.com/symbologies](http://www.honeywellaidc.com/symbologies).

For a full listing of warranty services, please visit [sps.honeywell.com/us/en/services/productivity/support-services](http://sps.honeywell.com/us/en/services/productivity/support-services)

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## DECODE RANGES (DoF)

TYPICAL PERFORMANCE*	STANDARD RANGE (SR)	HIGH DENSITY (HD)	ULTRA HIGH DENSITY (UD)***
<b>NARROW WIDTH</b>			
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.

## For more information

[sps.honeywell.com](http://sps.honeywell.com)

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