# GRANIT™ XP 1990iXLR

## Ultra-Rugged Long Range Industrial Handheld Scanner

## Following a legacy of successful deployments, the next series of Granit™ XP scanners offers enhanced depth of field range.

With Honeywell XLR technology, the Granit™ XP XLR models offer an ideal blend of no-sacrifice near-field scanning plus the ultra-long range to read UPCs at 2 meters (6.6 feet) and 100 mil (2.5 millimeter) rack labels at 24 meters (79 feet), addressing many warehouse, distribution center and manufacturing workflows. With a 3 meters (10 foot) drop, Granit XP is engineered to keep on working after the impact of drops from loading docks, forklifts and picking trucks. An improved 7,000 tumble specification helps to ensure Granit scanners are ready to work long-term in demanding environments.

Granit scanners are designed with a small, deeply recessed, scratch- and impact-resistant window to help prevent failures. This is a critical sealing component helping to prevent dust and moisture from entering the case and degrade scanning performance or cause premature failure. The Granit solution includes IP67 rating, protecting the device, even under harsh treatment.

Barcodes make data entry faster and more accurate, maximizing productivity in your operations. However, damaged and low-quality barcodes can make transactions slow and painful. Bad labels commonly occur in the warehouse, DC and industrial environments due to low quality printing or damage during handling. Granit XP is built on Honeywell's next generation imaging platform, integrating a high-resolution sensor and enhanced decoding algorithms to read barcode symbols quickly and accurately. Granit XP helps to ensure that otherwise challenging labels do not create a bottleneck in your process.



*Granit™ XP 1990iXLR scanners provide extreme performance scanning with ultra-long range and enhanced ruggedness for optimized reliability and productivity.*

## FEATURES AND BENEFITS

Built to survive harsh treatment including 3 m (10 ft) drops, 7,000 1 m (3.3 ft) tumbles, operating temperatures from -30°C to 50°C (-22°F to 122°F). Granit™ XP helps reduce service costs and increases device uptime.

Granit™ XP provides extreme performance scanning, even on damaged and low-quality barcodes.

The Honeywell Scanner Management Utility (SMU) creates a holistic solution that automates how you deploy and update the scanners in your environment.

The XLR model is ideally suited to far-field scanning operations on 1D and 2D barcodes, plus expanded range scanning of 13 mil UPC up to 2 m (6.6 ft) and 100 mil code 39 to 24 m (79 ft).

Honeywell Operational Intelligence software delivers on-demand scan insights, supporting higher employee productivity and throughput.

# GRANIT™ XP 1990iXLR Technical Specifications

## MECHANICAL

**Dimensions (L x W x H):**
192 mm x 76 mm x 100 mm
(7.6 in x 3.0 in x 3.9 in)

**Weight – Corded:** 320 g (11.3 oz)

**User Indicators:** Good Decode LEDs, Beeper (adjustable tone and volume), Vibration (adjustable)

## ENVIRONMENTAL

**Operating Temperature\* – Corded:**
-30°C to 50°C (-22°F to 122°F)

**Storage Temperature:**
-40°C to 70°C (-40°F to 158°F)

**Humidity:** Up to 95% relative humidity (non-condensing)

**Drop (Multiple):**

**1.8 m (6 ft):** 50 dops from -30°C to 50°C (-22°F to 122°F), uncontrolled RH

**2.4 m (8 ft):** 20 drops at 25°C (77°F), 55% RH

**3 m (10ft):** MIL-STD-810G, 25°C (77°F), 55% RH

**Tumble:** 7,000 1.0 m (3.3 ft) tumbles per IEC 60068-2-32 specification

**Environmental Sealing:** IP67 and IP65

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

**ESD:** ±20 kV Air and ±8 kV Contact Direct

## ELECTRICAL

**Input Voltage:**
4.0 VDC to 5.5 VDC

**Operating Power – Corded:**
2.35 W (470 mA @ 5 VDC)

**Standby Power – Corded:**
0.5 W (100 mA @ 5 VDC)

**Host System Interfaces:**
USB, Keyboard Wedge, RS-232 TTL

## SCAN PERFORMANCE

**Scan Pattern:** Area Imager

**Near:**
(1280 x 800 pixel array) Global Shutter

**Far:**
(1920*1080 pixel array) Rolling Shutter

**Motion Tolerance:**
Up to 4500 mm/s (177 in/s)

**Print Contrast:**
20% minimum reflectance difference
Roll, Pitch, Skew: -360°, 45°, 65°

**Decode Capabilities:** Reads standard 1D, PDF, 2D, Postal, Digimarc, DOT Code and OCR symbologies

**Warranty – Scanner:**

Three-year factory warranty

### AVERAGE PERFORMANCE**

| NARROW WIDTH | XLR EXTENDED RANGE |
|---|---|
| 5 mil Code 39 | 87 mm to 370 mm (3.4 in to 14.6 in) |
| 10 mil Data Matrix | 89 mm to 393 mm (3.5 in to 15.5) |
| 10 mil Code 128 | 48 mm to 2202 mm (1.9 in to 86.7 in) |
| 13 mil UPC | 11 mm to 2244 mm (0 in to 88.3 in) |
| 20 mil Code 39 | 15 mm to 5944 mm (0 in to 19.5 ft) |
| 100 mil Code 39 | 24 m (79 ft) |
| 100 mil Data Matrix | 11.4 m (37.4 ft) |

| NARROW WIDTH | XR EXTENDED RANGE |
|---|---|
| 5 mil Code 39 | 35.7 mm to 108.3 mm (1.4 in to 4.26 in) |
| 10 mil Code 39 | 0 mm to 1279.3 mm (0 in to 4.2 ft) |
| 10.4 mil Code 128 | 0 mm to 354 mm (0 in to 14 in) |
| 13 mil UPC | 0 to 1548.3 mm (0 in to 5 ft) |
| 15 mil Code 128 | 0 mm to 1820.7 mm (0 in to 6 ft) |
| 20 mil Code 39 | 0 mm to 2368 mm (0 in to 7.8 ft) |
| 6.7 mil PDF 417 | 0 mm to 214 mm (0 in to 8.4 in) |
| 10 mil Data Matrix | 26.3 mm to 230.7 mm (1 in to 9 in) |
| 20 mil QR Code | 0 mm to 496.3 mm (0 in to 19.5 in) |
| 22 mil QR Code | 0 mm to 1706.7 mm (0 in to 5.6 ft) |
| 70 mil Code 128 | 7.9 m (26 ft) |
| 100 mil Code 39 | 11.26 m (37 ft) |
| 100 mil Data Matrix | 208 mm to 6026.7 mm (8.2 in to 19.8 ft) |

| NARROW WIDTH | SR EXTENDED RANGE |
|---|---|
| 5 mil Code 39 | 18mm to 227.7 mm (0 in to 9 in) |
| 10 mil Code 39 | 0 mm to 503 mm (0 in to 19.8 in) |
| 13 mil UPC | 0 mm to 517.3 mm (0 in to 20.3 in) |
| 15 mil Code 128 | 0 mm to 649.3 mm (0 in to 2.13 ft) |
| 20 mil Code 39 | 0 mm to 882.7 mm (0 in to 2.9 ft) |
| 6.7 mil PDF 417 | 18 mm to 214 mm (0 in to 8.42 in) |
| 10 mil Data Matrix | 26.3 mm to 230.7 mm (1 in to 9 in) |
| 20 mil QR Code | 44 mm to 484.3 mm (1.7 in to 19 in) |

*With industrial-grade cable. Can be purchased separately.*

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

`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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