GRANIT™ XP 1990 iXR

Ultra-Rugged Area-Imaging Scanner

Following a legacy of successful deployments, the next generation Granit XP scanners expand capabilities and redefine ultra-rugged scanning.

Granit XP 1990iXR scanners provide extreme performance scanning with engineered ruggedness for rock-solid reliability and low total cost of ownership.

With an ultra-rugged 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.

The 1 meter (3.3 foot) tumble test indicates lasting durability with daily knocks and drops from workstations or waist height. A grueling 7,000 tumble specification ensures Granit scanners are ready to work long-term in demanding environments. With Honeywell FlexRange™ technology, Granit XP XR models offer an ideal blend of no-sacrifice near-field scanning plus the expanded range to read UPCs at 1.5 meter (5 feet) and 100 mil (2.54 millimeter) rack labels at 10 meters (33 feet), addressing many warehouse, distribution center and manufacturing workflows.

Field feedback shows that the scan window is a high-frequency failure point for scanning devices in the industrial environment. Granit scanners are designed with a small, deeply recessed, scratch- and impact-resistant window to prevent these failures. This is a critical sealing component ensuring dust and moisture do not enter the case and degrade scanning performance or cause premature failure. The Granit solution ensures its IP67 sealing remains intact, 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 quickly and accurately read barcode symbols. Granit XP ensures that otherwise challenging labels do not create a bottleneck in your process.

The corded Granit XP 1990iXR model offers high-durability, extreme performance scanning for standard and extended range operations. Created for applications where high-speed scanning is needed to maximize productivity and where durability is non-negotiable for low total cost of ownership, the Granit XP 1990iXR scanner offers the optimal solution.

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) and IP67 sealing, Granit XP reduces service costs and increases device uptime.

Granit provides extreme performance scanning, even on damaged and low-quality barcodes. High-quality barcodes scan and transmit faster than ever.

The XR model is ideally suited to normal, near-field scanning operations on 1D and 2D barcodes, plus expanded range scanning of UPC to 1.5 m (5 ft) and 100 mil codes to 10 m (33 ft).

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

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

ENERGY ELECTRONICS

Honeywell

GRANIT™ XP 1990iXR 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)

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

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:
- **2 m** (6.5 ft): 50 drops 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** (10 ft): MIL-STD-810G, 25°C (77°F), 55% RH

Tumble: 7,000 1 m (3.3 ft) tumbles
Environmental Sealing: IP67 and IP65
Light Levels: 0 to 100,000 lux (9,290 foot-candles)
ESD: ±20 kV air discharge, ±8 kV contact discharge

SCAN PERFORMANCE

Scan Pattern: Area Imager (1280 x 800 pixel array)
Motion Tolerance: Up to 4500 mm/s (177 in/s)
Scan Angle: Horizontal: 40°, Vertical: 30°
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
Warranty – Battery Pack: One-year factory warranty

TYPICAL PERFORMANCE**

Narrow Width	Extended Range
5 mil Code 39	20 mm to 220 mm (0.8 in to 8.7 in)
10.4 mil C128	3 mm to 343 mm (0.1 in to 13.5 in)
13 mil UPC	0 mm to 1520 mm (0 in to 59.8 in)
15 mil C128	0 mm to 1727 mm (0 in to 68 in)
20 mil Code 39	0 mm to 2236 mm (0 in to 88.0 in)
6.7 mil PDF 417	20 mm to 209 mm (0.8 in to 8.2 in)
10 mil Data Matrix	30 mm to 220 mm (1.2 in to 8.6 in)
20 mil QR Code	0 mm to 484 mm (0 in to 19.1 in)
22 mil QR Code	0 mm to 1671 mm (0 in to 65.8 in)
	136 mm to 7240 mm (5.4 in to 285 in)
70 mil C128	3 mil (0.076 mm)
Min. resolution 1D Code 39	6 mil (0.152 mm)
Min. resolution 2D Data Matrix	10 m (33 ft)
100 mil Code 39	

**With industrial-grade cable ordered separately.*

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

For a complete listing of all compliance approvals and certifications, please visit www.honeywell.com/PSScompliance.

For a complete listing of all supported barcode symbologies, please visit http://honeywell.com/PSS-symbologies.

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ENERGY ELECTRONICS

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