GRANIT™ XP 1990iSR

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 1990iSR 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.

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 warehouses, DCs 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 the process.

The corded Granit XP 1990iSR model offers high-durability, extreme performance scanning for standard 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 1990iSR 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 SR model is ideally suited to normal, near-field scanning operations on 1D and 2D barcodes. For longer distances, refer to other models in the Granit family.

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.

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GRANIT™ XP 1990iSR 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

For more information

sps.honeywell.com

Honeywell Safety and Productivity Solutions
855 S Mint St
Charlotte, NC 28202
800-582-4263
www.honeywell.com

TYPICAL PERFORMANCE**

Narrow Width	Extended Range
5 mil Code 39	20 mm to 220 mm (0.8 in to 8.7 in)
13 mil UPC	0 mm to 504 mm (0 in to 19.8 in)
20 mil Code 39	0 mm to 837 mm (0 in to 33.0 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	33 mm to 475 mm (1.3 in to 18.7 in)
Min. resolution 1D Code 39	3 mil (0.076 mm)
Min. resolution 2D Data Matrix	6 mil (0.152 mm)

**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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GRANIT™ XP 1991iSR

Wireless 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 1991iSR scanners provide extreme performance scanning with engineered ruggedness for rock-solid reliability and low total cost of ownership.

With an ultra-rugged 3 meter (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.

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 warehouses, DCs 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 the process.

The cordless Granit XP 1991iSR model offers high-durability, extreme performance scanning for standard 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 1991iSR 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 -20°C to 50°C (-4°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 SR model is ideally suited to normal, near-field scanning operations on 1D and 2D barcodes. For longer distances, refer to other models in the Granit family.

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.

Honeywell

GRANIT™ XP 1991iSR Technical Specifications

MECHANICAL

Dimensions – Scanner (L x W x H): 192 mm x 76 mm x 100 mm (7.6 in x 3.0 in x 3.9 in)
Dimensions – Base (L x W x H): 245 mm x 102 mm x 60 mm (9.6 in x 4.0 in x 2.4 in)
Weight – Cordless: 405 g (14.3 oz)

WIRELESS

Radio/Range: 2.4 GHz (ISM Band) Adaptive Frequency Hopping Bluetooth® v4.2; Class 1: 100 m (330 ft) line of sight

POWER OPTIONS

Battery: 2450 mAh Li-ion minimum
Number of Scans: Up to 50,000 scans per charge
Expected Duration of Operation: 14 hours (1 scan per second)
User Indicators: Good Decode LEDs, Beeper (adjustable tone and volume), Vibration (adjustable), Bluetooth® connectivity, Battery status

ELECTRICAL

Input Voltage: 4.0 VDC to 5.5 VDC
Operating Power – Cordless: 5 W (1000 mA @ 5 VDC)
Standby Power – Cordless (non-charging power): 0.6 W (120 mA @ 5 VDC)
Host System Interfaces: USB, Keyboard Wedge, RS-232 TTL

ENVIRONMENTAL

Operating Temperature*: -20°C to 50°C (-4°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 – Scanner: IP67 and IP65
Environmental Sealing – Charge/Communication Base: IP51
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)
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20 mil Code 39	0 mm to 837 mm (0 in to 33.0 in)
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**With industrial-grade cable ordered separately.*

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For more information

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