

# 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.

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.



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

## 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.

**Honeywell**

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

## Honeywell Safety and Productivity Solutions

855 S Mint St  
Charlotte, NC 28202  
800-582-4263  
[www.honeywell.com](http://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](http://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 1990iXR

## Ultra-Rugged Area-Imaging Scanner

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

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.



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

## 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.

**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 – Coded:** 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 – Coded:** 2.35 W (470 mA @ 5 VDC)

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

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

## ENVIRONMENTAL

**Operating Temperature\* – Coded:** -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](http://sps.honeywell.com)

## Honeywell Safety and Productivity Solutions

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Charlotte, NC 28202  
800-582-4263  
[www.honeywell.com](http://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)
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)
70 mil C128	136 mm to 7240 mm (5.4 in to 285 in)
Min. resolution 1D Code 39	3 mil (0.076 mm)
Min. resolution 2D Data Matrix	6 mil (0.152 mm)
100 mil Code 39	10 m (33 ft)

\*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](http://www.honeywell.com/PSScompliance).

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

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All other trademarks are the property of their respective owners.

# 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.

**Honeywell**

# 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 (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)

## For more information

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

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## 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](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).

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