GRANIT™ XP 1991iSR

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Wireless Ultra-Rugged Area-Imaging Scanner



Granit XP 1991iSR scanners provide extreme performance scanning with best-in-class ruggedness for rock-solid reliability and low total cost of ownership.

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

With a best-in-class 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 best-in-class 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 -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 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)
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.honeywellaidc.com/compliance.

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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For more information
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THE FUTURE IS WHAT WE MAKE IT

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GRANIT™ XP 1991iXR

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 1991iXR scanners provide extreme performance scanning iwith best-in-class ruggedness for rock-solid reliability and low total cost of ownership.

With a best-in-class 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 best-in-class 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 m (5 ft) and 100 mil (2.54 mm) rack labels at 10 m (33 ft), 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 the process.

The cordless Granit XP 1991iXR 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 1991iXR 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.

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GRANIT™ XP 1991iXR 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)
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.honeywellaidc.com/compliance.

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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For more information
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Granit XP 1991iXR Data Sheet | Rev B | 07/20
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THE FUTURE IS WHAT WE MAKE IT

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GRANIT™ XP 1991iXLR

Wireless Ultra-Rugged Long Range Industrial Handheld Scanner



Granit™ XP 1991iXLR scanners provide extreme performance scanning with ultra-long range scanning and enhanced ruggedness for optimized productivity and reliability.

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. 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.

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 series 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 1991iXLR 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 – Cordless: 405 g (14.3 oz)

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

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

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 (Multiple):

- **1.8 m (6 ft.):** 50 dops from -20°C to 55°C (-4°F to 131°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

ELECTRICAL

Input Voltage: 4.0 VDC to 5.5 VDC

Operating Power: 5 W 1000 mA @ 5 VDC

Standby Power: 0.6 W

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

For more information

sps.honeywell.com

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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

Warranty – Battery Pack:
One-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 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.honeywellaidc.com/compliance.

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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