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

Honeywell Safety and Productivity Solutions

855 S Mint St
Charlotte, NC 28202
800-582-4263
www.honeywell.com

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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Honeywell

HONEYWELL
8675i

Rugged Compact Wearable Scanner

The Honeywell 8675i provides wearable scanning productivity in a compact, ergonomic, and rugged form factor.

The 8675i offers always-at-hand wearable scanning to improve workflow productivity. Premium scanning performance ensures quick work of even damaged or low quality barcodes. FlexRange™ technology provides expanded FlexRange™ scan distance, enabling improved efficiency in workflows that could previously only be solved with bulkier, heavier handheld devices. Smooth, fast reading from near to far ensures that the full range (100% UPC from near contact to 5'/1.5m, 100 mil Code 39 to 33'/10m) has fast, intuitive scanning response. A standard-range only option offers lower acquisition cost for arms-length workflows.

In all aspects of design, the 8675i has been optimized for ergonomics. Height off of the finger has been minimized to prevent interference in the work environment. All user-contact surfaces have been tailored for comfort, easy adjustment, and simple use. The triggered ring is simple to swap from right to left hand configuration, and the finger strap buckle is both easy to operate and low-profile to prevent interference between fingers. The 8675i can be converted from ring to glove instantly and with no tools; the strap glove is simple, minimal, and easily adjustable to cover the range of users. Made of non-absorbent materials, the 8675i scanner and triggered ring wearable accessories are simple to clean with approved disinfectant agents.

The 8675i has been designed to satisfy the needs of demanding workflows. It is multi-shift ready, with an easy-to-replace battery to keep the scanner up and running that also enables the battery to be simply replaced as it ages through normal use, extending the service life of the 8675i. User-facing LEDs communicate Bluetooth connection, battery state of charge and even when battery health requires a replacement.

The 8675i rugged compact wearable scanner provides ergonomic, high performance scanning. Designed to deliver reliable results in demanding workflows, this productivity tool is ready to perform in real-world applications.

Robust 2,000 x ½ meter tumble specification ensures that 8675i is ready to endure the frequent knocks that wearable devices in fast-paced environments often experience. IP65 sealing and broad operating temperatures (-20° to 50°C, -4° to 122°F) ensure unconditioned warehouses, frozen environments are no problem for the 8675i. New outdoor aiming guides provide accurate barcode targeting even in full daylight when laser aimers cannot be seen. And Operational Intelligence makes configuring, monitoring, and managing deployed devices simple.

FEATURES AND BENEFITS

Improve productivity with premium scanning performance including workflow-enabling FlexRange™ scan distance.

Reduce barriers to adoption with lightweight, comfortable, highly ergonomic form factors.

Satisfy operational challenges with a wearable expressly designed for demanding workflows.

Multi-shift ready, with an easily removable smart battery to improve ROI and maximize device lifespan.

Easily monitor and manage a fleet of deployed 8675i devices with Operational Intelligence.

Honeywell

8675i Rugged Compact Scanner Technical Specifications

MECHANICAL

Dimensions (L x W x H):
65.2 mm x 30.3mm x 15.2mm
(2.6 in x 1.2 in x 0.6in)

Weight:

Triggered ring with battery:
8675i-SR 63g (2.3 oz)
8675i-FR 66g (2.4 oz)

Scanner module without wearable accessory or battery:
8675i-SR 50g (1.8 oz)
8675i-FR 53g (1.9 oz)

Scan performance:

Scan Pattern:
Omni-directional area imager

Symbol Contrast:
20% minimum reflectance

Pitch: +/-60°

Skew: +/-60°

Warranty: Two-year factory warranty (**Note:** Battery warranty is one year)

WIRELESS

Radio Range:

Bluetooth: 2.4 GHz to 2.5GHz (ISM Band (Adaptive Frequency Hopping Bluetooth v5.1 Class 1; 100m (330ft) line of sight; BLE. NFC communications for simple tap-to-pair functionality.

Battery: 3.85V, 570mAh

Number of scans:
12,000 over 10 hour shift

Expected charge time: 3.5 hours

Battery Weight: 19 grams (0.8 oz)

ENVIRONMENTAL

Operating Temperature:

8675i-FR:
-20°C to 50°C (-4°F to 122°F)

8675i-SR:
-20°C to 50°C (-4°F to 122°F)

Storage Temperature:
-20°C to 60°C (-4°F to 140°F)

Humidity:
0% to 95% relative humidity (non-condensing)

Drop:
1.8m(6 ft) Mil-Std-810 Drop Test at operating temperature 50x 1.5m (5 ft) to concrete at operating temperature

Tumble: 2,000 1/2 m (1.6 ft) tumbles per IEC 60068-2-32 specification

Trigger: Rated for 5MM activation cycles

ESD: ±15 kV Air and ±8 kV Direct

Environmental Sealing: Independently certified to meet IP65 standards for moisture and particle intrusion

GLOVE CHARACTERISTICS

Strap glove securely locates 8675i on back of hand for optimum dexterity, ergonomics, and user comfort.

Highly durable design for long lifespan, reduced consumable costs.

Trigger rated for 5MM activation cycles.

Compatible with bare hand or conventional glove for comfort and user safety.

Left and right hand versions.

WARNING

Extreme caution should be used around moving machinery.

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.

FlexRange is a trademark or registered trademark of Honeywell International Inc.

Bluetooth is a trademark or registered trademark of Bluetooth SIG, Inc.

TYPICAL PERFORMANCE

FLEXRANGE™ – SYMBOLOGY/ X-DIM	TYPICAL RANGE*			
8675i FR	**Near mm**	**Near inches**	**Far mm**	**Far inches**
5 mil C39	136	5.35	363	14.29
10 mil DataMatrix	150	5.91	385	15.16
10 mil C39	92	3.62	1196	47.09
13 mil UPC-A	66	2.60	1435	56.50
15 mil C128	64	2.52	1569	61.77
20 mil C39	61	2.40	2159	85.00
100 mil DataMatrix[1]	-	-	4503	177.28
55 mil C39[1]	-	-	6544	257.64
100 mil C39[1, 2]	-	-	9841	387.44
8675i SR	**Near mm**	**Near inches**	**Far mm**	**Far inches**
5 mil C39	68	2.68	299	11.77
10 mil C39	38	1.50	515	20.28
20 mil C39	42	1.65	798	31.42
13 mil UPC-A	42	1.65	571	22.48
15 mil C128	40	1.57	648	25.51
10 mil DataMatrix	70	2.76	295	11.61
6.7 mil PDF417	82	3.23	242	9.53
15 mil QR Code	37	1.46	412	16.22

Performance may be impacted by barcode quality and environmental conditions
1. Minimum distance depends on the length of the barcode.
2. Wide to narrow ratio 3:1. Minimum code height of 3 inches.

LASER LIGHT- DO NOT STARE INTO BEAM
鐳射光，勿直視光束，等級2鐳射產品。
激光辐射,勿直视光束, 2类激光产品。
RAYONNEMENT LASER NE PAS REGARDER DANS LE FAISCEAU, APPAREIL À LASER DE CLASSE 2.MAX. 1mW: 645-660 nm. IEC 60825-1: 2014. Pulse duration of 10 or 16.8mSec.Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed.3., as described in Laser Notice No. 56, dated May 8, 2019.

CLASS 2
LASER PRODUCT

For more information

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