

# GRANIT™ ULTRA 2105iXR

## Ultra-Rugged Cordless Area-Imaging Scanner

Granit Ultra scanners expand capabilities and define the next generation of ultra-rugged scanning.

### ULTRA SCAN PERFORMANCE

For a scanner to optimize productivity, it should read and transmit common barcodes nearly as fast as the user can pull the trigger, and Granit Ultra is engineered to do just that. Damaged or low-quality printed barcodes can cause scanners' pace to decrease, or even force cumbersome (and error-prone) manual data entry. To maximize throughput, scanners must successfully compensate for poor code quality before scan delays put pressure on production.

Granit Ultra integrates high speed processing, AI algorithms, and decoding enhancements to result in an average 45% scanning speed increase vs. Granit XP\*, enabling improved productivity. XR models are ready for action, reading barcodes from contact to nearly 6' (1.8m) for UPC codes, or up to 33' (10.85m) for 100 mil Code 39.

### ULTRA DURABILITY

In modern warehouse, distribution center, and manufacturing environments, any scanner must be durable enough to survive harsh operating conditions and powerful enough to capture and transmit barcode data without slowing workflows. Under exactly that kind of rough treatment, Granit is ready to deliver. 10' drops from fork trucks, docks, and picking trucks, 7,500 1-meter tumbles from normal working height, and wide operating temperatures are no problem.

But great specs are meaningless if there are other weak links in the chain. For instance, customers often cite scratched and broken scan windows as a frequent failure point in competitive scanners. Honeywell Granit Ultra's small, deeply recessed, scratch- and impact-resistant scan window is designed to address this, helping ensure that the electronics and optics remain IP65/68 protected. The new charge and communication base is tested to 500,000 insertion cycles, and recessed charge contacts help protect this critical component from potential impacts.

### FEATURES AND BENEFITS



Built to survive harsh treatment including 3m (10ft) drops, 7500 1m (3.3ft) tumbles, operating temperatures from -20°C to 50°C (-4°F to 122°F), and IP65/68 sealing, Granit Ultra reduces service costs and increases device uptime.



Granit Ultra provides rapid scanning, even on damaged and low quality barcodes. High quality barcodes transmit faster than ever.



XR model is ideally suited to near-field scanning operations on 1D and 2D barcodes, with range extending to nearly 6' (1.8m) for UPC codes, or up to 33' (10.85m) for 100 mil Code 39. For even longer reading distances, refer to XLR models in the Granit family.



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



Honeywell Granit Ultra 2105iXR  
Ultra-Rugged Mobile Computer

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## **ULTRA EASE OF USE**

Ready to operate right out of the box for many applications, Granit offers easy custom configuration in the time it takes to scan a barcode. Comfortable ergonomic design compliments the human hand and is readily compatible with the full range of users. Crisply focused illumination intuitively defines the field of view, and a sharp aimer defines the focal point and can be used for precise code targeting in applications where many barcodes are located in close proximity. And for workflows better expedited by reading many barcodes at once, Granit can read multiple codes in the field of view, organizing and outputting the data in a predefined order using Honeywell's Data Format Editor.

The all new charge and communication base is loaded with features to simplify common tasks. Easy drop-in charging makes scanner placement in the cradle fast and efficient for flat work surfaces; engaging the latching mechanisms helps ensure secure retention for vertical or vehicle mounting.

**To learn more about how Granit Ultra is ready to improve your operations, contact your Honeywell representative or partner today.**

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\*Honeywell standard benchmarking testing conducted on Granit Ultra SR and XR models vs. Granit XP on 6 collections of reference barcodes

# Granit Ultra 2105iXR Technical Specifications

## MECHANICAL

**Scanner dimensions (L x W x H):** 194.8mm x 76mm x 139.5mm (7.7 in x 3.0 in x 5.5 in)

**Charge and communication dimensions (L x W x H):** 250.1mm x 102mm x 80.7mm (9.8 in x 4.0 in x 3.2 in)

**Weight – Cordless:** 425g (15 oz)

**Weight—Charge and communication base:** 357g (12.6 oz)

**User Indicators:** Good decode LEDs, Battery Status LED, Bluetooth Connection Status LED, Beeper (adjustable tone and volume), Vibration (adjustable)

## WIRELESS

**Radio/Range:** 2.4 GHz (ISM Band)  
Adaptive Frequency Hopping Bluetooth® v. 4.2; Class 1: 100m (330 ft) line of sight

## POWER OPTIONS

**Battery:** 3,300 mAh Li-ion

**Number of scans:** Up to 100,000 scans per charge

**Expected duration of operation:** 14 hours operating at 2 scans per second

## ELECTRICAL

**Input Voltage:** 4.0 VDC to 5.5 VDC

**Operating Power – Cordless:** 5W (1000mA @ 5VDC)

**Standby Power – Cordless:** 0.6W (120mA @ 5VDC)

**Host System Interfaces:** USB, Keyboard Wedge, RS-232 TTL (cables available to convert for +/-12V True use)

### Charging time:

USB 2.0: <12 hours

USB BC1.2 <4 hours

Power supply (5V 3A): <4 hours

## ENVIRONMENTAL

**Operating Temperature – Cordless\*:** -20°C to 50°C (-4°F to 122°F)

**Storage Temperature:** -40°C to 70°C (-40°F to 158°F)

**Charging Temperature:** 5°C to 35°C (41° to 95°F)

**Humidity:** Up to 95% relative humidity, non-condensing

## Drop:

**3m (10 ft):** MIL-STD-810G, 25C (77°F), 55% RH

**2.4m (8 ft):** 20 drops at 25°C (77°F), 55% RH

**2m (6.5 ft):** 50 drops from -30°C to 50°C (-22°F to 122°F), uncontrolled RH

**Tumble:** 7,500 1m (3.3ft) tumbles

**Trigger activations:** Tested to 3 million cycles

**Charge base insertion cycle specification:** 500,000

## Environmental Sealing:

**Scanner:** IP65 and IP68

**Charge and Communication Base:** IP65

**Light Levels:** 0 to 100,000 lux (9,290 foot-candles)

**ESD:** +/-20KV air discharge, +/-8kV contact discharge

## SCAN PERFORMANCE

**Scan Pattern:** Area imager (1280x800 pixel array)

**Motion Tolerance:** Up to 4500 mm/s (177 in/s)

**Scan Angle:** Horizontal: 40°, Vertical 30°

**Print Contrast:** As low as 15%

**Roll, Pitch, Skew:** +/-360°, 45°, 60°

**Decode Capabilities:** Reads standard 1D, PDF, 2D, Postal, Digimarc, DOT Code, and OCR symbologies

**Warranty – Scanner:** Three year factory warranty

## TYPICAL PERFORMANCE\*\*

SYMBOLGY	STANDARD RANGE - TYPICAL		STANDARD RANGE - GUARANTEED	
	NEAR DISTANCE (mm [in])	FAR DISTANCE (mm [in])	NEAR DISTANCE (mm [in])	FAR DISTANCE (mm [in])
5 mil C39	10 [0.39]	269 [0.59]	21 [0.83]	252 [9.92]
10 mil C128	0 [0.0]	1503 [59.17]	0 [0.0]	1455 [57.28]
13 mil UPC	0 [0.0]	1780 [70.08]	0 [0.0]	1586 [62.44]
20 mil C128	0 [0.0]	2812 [110.71]	0 [0.0]	2621 [103.19]
100 mil C39	0 [0.0]	10848 [427.09]	0 [0.0]	9242 [363.86]
6.7 mil PDF417	14 [0.55]	243 [9.57]	23 [0.91]	233 [9.17]
10 mil DataMatrix	5 [0.20]	261 [10.28]	14 [0.55]	247 [9.72]
20 mil QR Code	0 [0.0]	1464 [57.64]	0 [0.0]	453 [17.83]
100 mil DataMatrix	0 [0.0]	5329 [209.80]	0 [0.0]	4724 [185.98]

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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\* Honeywell standard benchmarking testing conducted on Granit Ultra SR and XR models vs. Granit XP on 6 collections of reference barcodes

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

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