GRANIT™ ULTRA 2105iSR

Ultra-Rugged Cordless Area-Imaging Scanner

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



Honeywell Granit Ultra 2105iSR Ultra-Rugged Mobile Computer

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. SR models are ready for action, reading barcodes from contact to arm's length.

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.

SR model is ideally suited to near-field scanning operations on 1D and 2D barcodes. For longer reading distances, refer to other 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

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.

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

Granit Ultra 2105iSR 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**

SYMBOLOGY	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]	531 [20.91]	0 [0.0]	497 [19.57]
13 mil UPC	0 [0.0]	634 [24.96]	0 [0.0]	589 [23.19]
20 mil C128	0 [0.0]	1033 [40.67]	0 [0.0]	953 [37.52]
6.7 mil PDF417	10 [0.39]	243 [9.57]	23 [0.91]	233 [9.17]
10 mil DataMatrix	10 [0.39]	261 [10.28]	14 [0.55]	247 [9.72]
20 mil QR Code	0 [0.0]	480 [18.90]	0 [0.0]	453 [17.83]

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

For more information

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