Granit 1911i

Wireless Industrial-Grade Area-Imaging Scanner

The Granit™ 1911i wireless industrial-grade area-imaging scanner is designed to withstand the varied demands of harsh working environments. Featuring a custom-built housing that redefines the standard for scanner reliability, the IP65-rated Granit 1911i scanner is built to survive 5,000 1 m (3.3 ft) tumbles and 50 drops to concrete from 2 m (6.5 ft), even at -20°C (-4°F). As a result, businesses can expect to experience minimal device downtime and a lower overall cost of ownership.

Powered by Honeywell Adaptus™ 6.0 imaging technology and its revolutionary decoding architecture, the Granit 1911i scanner provides users with the same exceptional barcode reading performance as the best-in-class Xenon™ series area-imaging scanners. From poorly printed and damaged codes to low-density linear codes, the Granit 1911i scanner is built to read virtually all barcodes with ease – supporting maximum operator productivity with its enhanced illumination, crisp laser aiming and extended depth-of-field.

The Granit 1911i scanner also incorporates a Bluetooth® Class 1, v2.1 radio, enabling wireless connectivity and unrestricted movement up to 100 m (300 ft) from the base. Additionally, with the Honeywell Shift-PLUS power management system, users can expect up to 14 hours of battery life, reducing the cost associated with battery backups and replacements. A paging system is also available for added convenience to assist with locating misplaced scanners.

Created specifically for applications in which high-performance scanning is expected and durability is highly valued, the Granit 1911i scanner is the optimal solution for businesses operating in unpredictable conditions.



The Granit 1911i wireless area-imaging scanner is optimized for demanding, arm's-length scanning of 1D and 2D barcodes, delivering exceptional performance and class-leading durability for harsh industrial environments.

FEATURES & BENEFITS

The custom-built IP65-rated housing is able to withstand 5,000 1 m (3.3 ft) tumbles and survive 50 drops from 2 m (6.5 ft) at -20°C (-4°F), reducing service costs and increasing device uptime.

Bluetooth Class 1, v2.1 radio enables movement up to 100 m (300 ft) from the base, and reduces interference with other wireless systems. Up to 7 imagers can communicate with a single base, reducing total cost of ownership.

The second-generation of the Honeywell TotalFreedom™ area-imaging development platform enables the loading and linking of multiple applications to enhance image decoding, data formatting and image processing – eliminating the need for host system modifications.

The long-lasting Lithium-Ion battery powers up to 50,000 scans per full charge and is removable without tools, ensuring maximum uptime for operations running multiple shifts.

With its extended linear depth-of-field, the scanner scans out-of-reach items with ease and allows users to scan 20 mil linear codes out to 75 cm (29.5 in) without sacrificing performance on 2D codes.

Granit 1911i Technical Specifications

WIRELESS

Radio/Range: 2.4 GHz to 2.5 GHz (ISM Band) Adaptive Frequency Hopping; Bluetooth v2.1: Class 1: 100 m (300 ft) line of sight

Data Rate (Transmission Rate): Up to 1 Mbps

Battery: 2400 mAh Li-Ion minimum

Number of Scans: Up to 50,000 scans per charge

Expected Hours of Operation: 14 hours

Expected Charge Time*: 4.5 hours

MECHANICAL/ELECTRICAL

Dimensions (L x W x H):

Scanner (1911iER-3): 133 mm x 75 mm x 195 mm (5.2 in x 2.9 in x 7.6 in)

Charger/Communication Base (COB02/CCB02-100BT-07N): 250 mm x 103 mm x 65 mm (9.9 in x 4.1 in x 2.6 in)

Weight:

Scanner: 390 g (13.8 oz)

Charger/Communication Base: 290 g (10.2 oz)

Operating Power (Charging):

Scanner: N/A

Charger/Communication Base: 5 W (1A @ 5 V)

Non-Charging Power:

Scanner: N/A

Charger/Communication Base: 0.6 W (0.12A @ 5 V)

Host System Interfaces:

Scanner: N/A

Charger/Communication Base: USB, Keyboard Wedge, RS-232 TTL

ENVIRONMENTAL

Operating Temperature:**

Scanner: -20°C to 50°C (-4°F to 122°F)

Charger/Communication Base: -20°C to 50°C (-4°F to 122°F)

Storage Temperature:

Scanner: -40°C to 70°C (-40°F to 158°F)

Charger/Communication Base: -40°C to 70°C (-40°F to 158°F)

Humidity:

Scanner: Up to 95% relative humidity, non-condensing

Charger/Communication Base: Up to 95% relative humidity, non-condensing

Drop:

Scanner: Designed to withstand 50 2 m (6.5 ft) drops to concrete at -20°C (-4°F)

Charger/Communication Base: Designed to withstand 50 1.2 m (4 ft) drops to concrete at -20°C (-4°F)

Tumble:

Scanner: 5,000 1 m (3.3 ft) tumbles

Charger/Communication Base: 5,000 1 m (3.3 ft) tumbles

Environmental Sealing:

Scanner: IP65

Charger/Communication Base: IP51

Light Levels:

Scanner: 0 to 100,000 lux (9,290 foot-candles)

Charger/Communication Base: N/A

ESD:

Scanner: ±20 kV air discharge, ±8 kV contact discharge

Charger/Communication Base: ±20 kV air discharge, ±8 kV contact discharge

SCAN PERFORMANCE

Scan Pattern: Area Imager (838 x 640 pixel array)

Motion Tolerance: Up to 610 cm/s (240 in/s) at 16.5 cm (6.5 in) and 381 cm/s (150 in/s) at 25 cm (10 in) for 13 mil UPC

Scan Angle: ER Focus

Horizontal: 31.6°

Vertical: 24.4°

Symbol Contrast: 20% minimum reflectance difference

Pitch, Skew: 45°, 65°

Warranty: 3-year factory warranty (Note: Battery warranty is 1-year.)

* Battery charging only occurs between 5°C and 40°C (41°F to 104°F).
** With industrial-grade cable ordered separately.

SYMBOLOGY	TYPICAL PERFORMANCE NARROW WIDTH	EXTENDED RANGE (ER)
CODE 39	7.5 mil	48 mm – 310 mm (1.9 in – 12.2 in)
	20 mil	15 mm – 749 mm (0.6 in – 29.5 in)
	Resolution 1D	5 mil (0.127 mm)
UPC	13 mil	15 mm – 543 mm (0.6 in – 21.4 in)
PDF417	6.7 mil	69 mm – 226 mm (2.7 in – 8.9 in)
DATAMATRIX	10 mil	71 mm – 261 mm (2.8 in – 10.3 in)
	Resolution 2D	7.5 mil (0.191 mm)
QR	20 mil	20 mm – 495 mm (0.8 in – 19.5 in)

* 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

www.honeywellaidc.com

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Industrial Scanners

Granit 1911i1D

Upgradeable Wireless Industrial-Grade Area-Imaging Scanner

The Granit™ 1911i1D wireless industrial-grade area-imaging scanner is designed to withstand the demands of harsh working environments. Designed for real-world reliability, the IP65-rated Granit 1911i1D scanner is built to survive 5,000 1 m (3.3 ft) tumbles and 50 drops to concrete from 2 m (6.5 ft), even at -20°C (-4°F). As a result, businesses can expect to experience minimal device downtime and a lower overall cost of ownership.

The Granit 1911i1D scanner offers omnidirectional scanning of 1D codes for improved efficiency, along with the ability to affordably upgrade the device to 2D scanning as data capture needs evolve.

Powered by sixth-generation Honeywell Adaptus™ imaging technology and its revolutionary decoding architecture, the Granit 1911i1D scanner provides users with the same exceptional barcode reading performance as the best-in-class Xenon™ series area-imaging scanners. From poorly printed and damaged codes to low-density linear codes, the Granit 1911i1D scanner is built to read virtually all 1D and PDF417 barcodes with ease – supporting maximum operator productivity with its enhanced illumination, crisp laser aiming, and extended depth of field.

The Granit 1911i1D scanner also incorporates a Bluetooth® Class 1, v2.1 radio, enabling wireless connectivity and unrestricted movement up to 100 m (300 ft) from the base. Additionally, with the Honeywell Shift-PLUS power management system, users can expect up to 14 hours of battery life, reducing the cost associated with battery backups and replacements. A paging system is also available for added convenience to assist with locating misplaced scanners.



The Granit 1911i1D wireless area-imaging scanner is optimized for demanding, arm's-length scanning of 1D and PDF417 barcodes, delivering exceptional performance and durability for harsh industrial environments.

Created specifically for applications in which high-performance scanning is expected and durability is highly valued, the Granit 1911i1D scanner is the optimal solution for businesses operating in unpredictable conditions.

FEATURES & BENEFITS

The custom-built IP65-rated housing is able to withstand 5,000 1 m (3.3 ft) tumbles and 50 drops from 2 m (6.5 ft) at -20°C (-4°F), reducing service costs and increasing device uptime.

Bluetooth Class 1, v2.1 radio enables movement up to 100 m (300 ft) from the base, and reduces interference with other wireless systems. Up to 7 imagers can communicate with a single base, reducing total cost of ownership.

The Honeywell TotalFreedom™ area-imaging development platform enables the loading and linking of multiple applications to enhance image decoding, data formatting, and image processing – eliminating the need for host system modifications.

The long-lasting Lithium-Ion battery powers up to 50,000 scans per full charge and is removable without tools, ensuring maximum uptime for operations running multiple shifts.

With its extended linear depth of field, the scanner scans out-of-reach items with ease and allows users to scan 20 mil linear codes out to 75 cm (29.5 in).

Granit 1911i1D Technical Specifications

WIRELESS

Radio/Range: 2.4 GHz to 2.5 GHz (ISM Band) Adaptive Frequency Hopping; Bluetooth v2.1: Class 1: 100 m (300 ft) line of sight

Data Rate (Transmission Rate): Up to 1 Mbps

Battery: 2400 mAh Li-Ion minimum

Number of Scans: Up to 50,000 scans per charge

Expected Hours of Operation: 14 hours

Expected Charge Time*: 4.5 hours

MECHANICAL/ELECTRICAL

Dimensions (L x W x H):

- **Scanner:** 133 mm x 75 mm x 195 mm (5.2 in x 2.9 in x 7.6 in)
- **Charger/Communication Base:** 250 mm x 103 mm x 65 mm (9.9 in x 4.1 in x 2.6 in)

Weight:

- **Scanner:** 390 g (13.8 oz)
- **Charger/Communication Base:** 290 g (10.2 oz)

Operating Power (Charging):

- **Scanner:** N/A
- **Charger/Communication Base:** 5 W (1A @ 5 V)

Non-Charging Power:

- **Scanner:** N/A
- **Charger/Communication Base:** 0.6 W (0.12A @ 5 V)

Host System Interfaces:

- **Scanner:** N/A
- **Charger/Communication Base:** USB, Keyboard Wedge, RS-232 TTL

ENVIRONMENTAL

Operating Temperature:**

- **Scanner:** -20°C to 50°C (-4°F to 122°F)
- **Charger/Communication Base:** -20°C to 50°C (-4°F to 122°F)

Storage Temperature:

- **Scanner:** -40°C to 70°C (-40°F to 158°F)
- **Charger/Communication Base:** -40°C to 70°C (-40°F to 158°F)

Humidity:

- **Scanner:** Up to 95% relative humidity, non-condensing
- **Charger/Communication Base:** Up to 95% relative humidity, non-condensing

Drop:

- **Scanner:** Designed to withstand 50 2 m (6.5 ft) drops to concrete at -20°C (-4°F)
- **Charger/Communication Base:** Designed to withstand 50 1.2 m (4 ft) drops to concrete at -20°C (-4°F)

Tumble:

- **Scanner:** 5,000 1 m (3.3 ft) tumbles
- **Charger/Communication Base:** 5,000 1 m (3.3 ft) tumbles

Environmental Sealing:

- **Scanner:** IP65
- **Charger/Communication Base:** IP51

Light Levels:

- **Scanner:** 0 to 100,000 lux (9,290 foot-candles)
- **Charger/Communication Base:** N/A

ESD:

- **Scanner:** ±20 kV air discharge, ±8 kV contact discharge
- **Charger/Communication Base:** ±20 kV air discharge, ±8 kV contact discharge

SCAN PERFORMANCE

Scan Pattern: Area Imager (838 x 640 pixel array)

Motion Tolerance: Up to 610 cm/s (240 in/s) at 16.5 cm (6.5 in) and 381 cm/s (150 in/s) at 25 cm (10 in) for 13 mil UPC

Scan Angle: ER Focus

- **Horizontal:** 31.6°
- **Vertical:** 24.4°

Symbol Contrast: 20% minimum reflectance difference

Pitch, Skew: 45°, 65°

Warranty: 3-year factory warranty (Note: Battery warranty is 1-year.)

* Battery charging only occurs between 5°C and 40°C (41°F to 104°F).
** With industrial-grade cable ordered separately.

TYPICAL PERFORMANCE*	EXTENDED RANGE (ER)
NARROW WIDTH	
7.5 mil Code 39	48 mm – 310 mm (1.9 in – 12.2 in)
13 mil UPC	15 mm – 543 mm (0.6 in – 21.4 in)
20 mil Code 39	15 mm – 749 mm (0.6 in – 29.5 in)
6.7 mil PDF417	69 mm – 226 mm (2.7 in – 8.9 in)
Resolution 1D Code 39	5 mil (0.127 mm)

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

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For more information

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