

# Granit 1920i

## Industrial Direct Part Mark (DPM) Area-Imaging Scanner

The direct part marks commonly used for product tracking and traceability in industries such as automotive, electronics, pharmaceutical, defense and aerospace are tough for conventional scanners. Not so for the super-tough Granit™ 1920i industrial area-imaging scanner. Part of the durable, market-proven Granit family, the Granit 1920i scanner captures virtually any direct part mark with ease, along with standard 1D and 2D barcodes on printed labels.

The secret lies in the Granit 1920i scanner's highly innovative lighting system, which allows the imager to optimally illuminate marks of any type, on any surface. Low-angle, direct lighting provides the uniform illumination required for dot peen and laser-etched marks. An integrated diffuser delivers the soft, indirect light required for marks on shiny, round or otherwise highly reflective surfaces.

Powered by Honeywell's revolutionary decoding architecture, the Granit 1920i scanner provides great scanning performance to read every type of direct part mark and ensure high first-pass read rates on even the toughest marks – regardless of size, surface, marking method or contrast.

The scanner is also capable of reading standard 1D and 2D barcodes on printed labels, delivering additional value – a single scanner to address your end-to-end scanning requirements across the complete workflow, from the production line to the warehouse.



*The Granit 1920i industrial scanner provides fast, accurate scanning of direct part marks on wide variety of materials, surfaces and marking methods – enabling maximum operator productivity in the harshest environments.*

## FEATURES & BENEFITS



An innovative multi-illumination system enables scanning of virtually any type of direct part mark – regardless of size, surface, marking method or contrast.



The Honeywell specialized DPM decoder assures high and accurate reading yields on difficult direct part marks.



With its ability to read standard 1D and 2D barcodes on printed labels, the scanner provides companies with maximum value: a single solution to meet their end-to-end scanning needs.



Tested to withstand the toughest environments: rated IP65 and can withstand 5,000 tumbles from 1 m (3.3 ft) and 50 drops to concrete from 2 m (6.5 ft) – and temperatures as low as -30°C (-22°F).



A laser-spot aimer, omnidirectional scanning and features such as automatic cycling through multiple illumination modes make it easy for operators to target and use the scanner.

# Granit 1920i Technical Specifications

## MECHANICAL

**Dimensions (L x W x H):** 134 mm x 74.5 mm x 193 mm (5.27 in x 2.93 in x 7.6 in)

**Weight:** 312 g (11 oz)

## ELECTRICAL

**Input Voltage:** 4.0V DC – 5.5V DC

**Operating Power:** 2.35 W (470 mA @5V DC)

**Standby Power:** 0.5 W (100 mA @5V DC)

**Host System Interfaces:** USB, RS-232, Keyboard Wedge

## ENVIRONMENTAL

**Operating Temperature:** -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:** Designed to withstand 50 2 m (6.5 ft) drops to concrete at -30°C (-22°F)

**Tumble:** 5,000 1 m (3.3 ft) tumbles

**Environmental Sealing:** IP65

**Light Levels:** 0 to 100,000 lux

**ESD:** ±20 kV air discharge; ±8 kV contact discharge

## SCAN PERFORMANCE

**Scan Pattern:** Area Imager

**Scan Angle:** Horizontal: 41.4°; Vertical: 32.2°

**Symbol Contrast:** 25% minimum reflectance difference

**Min. Resolution:** 1D 2.5 mil; 2D 4 mil

**Pitch, Skew:** 1D: ±45°, ±65°; 2D: ±45°, ±45°

**Reading Indicators:** LED, Beeper and Vibrator

**Decode Capability:** Reads standard 1D, stacked, 2D and postal symbologies

**Warranty:** 3-year factory warranty

SYMBOLGY	BARCODE NARROW WIDTH	DEPTH OF FIELD (TYPICAL*)
CODE 39	3 mil	0 mm – 64 mm (0 in – 2.5 in)
	5 mil	0 mm – 89 mm (0 in – 3.5 in)
	7.5 mil	0 mm – 137 mm (0 in – 5.4 in)
100% UPC	13 mil	0 mm – 147 mm (0 in – 5.8 in)
PDF417	5 mil	0 mm – 66 mm (0 in – 2.6 in)
DATAMATRIX	5 mil	0 mm – 39 mm (0 in – 1.5 in)
	10 mil	0 mm – 84 mm (0 in – 3.3 in)
QR	20 mil	0 mm – 162 mm (0 in – 6.4 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](http://www.honeywellaidc.com/compliance).

For a complete listing of all supported barcode symbologies, please visit [www.honeywellaidc.com/symbologies](http://www.honeywellaidc.com/symbologies).

Granit is a trademark or registered trademark of Honeywell International Inc. in the United States and/or other countries.

All other trademarks are the property of their respective owners.

LASER LIGHT- DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT.  
鐳射光，請勿直視鐳射光束，等級2鐳射產品。RAYONNEMENT LASER NE PAS  
REGARDER DANS LE FAISCEAU. APPAREIL À LASER DE CLASSE 2. MAX. 1mW:  
630-680 nm IEC 60825-1:2007, IEC60825-1: 2014, Complies with 21 CFR 1040.10 and  
1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

## For more information

[www.honeywellaidc.com](http://www.honeywellaidc.com)

## Honeywell Safety and Productivity Solutions

9680 Old Bailes Road

Fort Mill, SC 29707

800-582-4263

[www.honeywell.com](http://www.honeywell.com)

Granit 1920i DPM Data Sheet | Rev B | 06/17  
© 2017 Honeywell International Inc.

**Honeywell**  
THE POWER OF **CONNECTED**