Honeywell
THE POWER OF CONNECTED

Industrial Scanners

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



SYMBOLOGY	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.

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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For more information
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