

Granit 1980i

Industrial-Grade Full-Range Area-Imaging Scanner

The Granit™ 1980i industrial-grade scanner features full-range area-imaging technology capable of reading both 1D and 2D barcodes across a wide range of distances. From poor-quality 2 mil (0.0508 mm) codes scanned at close range, to 100 mil (2.54 mm) codes hanging from warehouse rafters scanned at ranges of 52 feet (16 m), the 1980i is built to perform. With an unmatched range that provides incredible versatility, Granit enables maximum operator productivity in the harshest environments.

The 1980i is packed with technology that makes it simple to use. An integrated laser pointer aiming system with auto-illumination, omnidirectional reading capability and support for centring take the guesswork out of scanning at extended ranges. Operators of fork trucks equipped with vehicle-mounted mobile computers, such as the Honeywell Thor™ series, will appreciate how the full-range scanning capability of 1980i allows them to remain seated – and hence more productive – while scanning pallets at extended ranges.

As a member of the Granit family of scanners, the 1980i is built to withstand the varied demands of harsh working environments. Utilizing the Granit housing that has long set the standard for scanner reliability, the 1980i is rated IP65 and is built to survive 5,000 tumbles from 3.2 feet (1 m) and 50 drops to concrete from 6.5 feet (2 m) – even in temperatures as low as -22°F (-30°C). As a result, operations that deploy Granit scanners can expect to experience minimal device downtime and a lower overall cost of ownership.



Features

- **Full-Range Area-Imaging Performance:** Scans low density (100 mil, or 2.54 mm) codes out to 52 feet (16 m) and high density (2 mil, or 0.0508 mm) codes at close range – and everything in between.
- **Built Granit Tough:** Tested to withstand the toughest environments, Granit is rated IP65 and can withstand 5,000 tumbles from 3.2 feet (1 m) and 50 drops to concrete from 6.5 ft (2 m).
- **Easy to Use:** A laser-spot aimer, omnidirectional scanning and features such as centring take the guesswork out of scanning at extended ranges.
- **Industrial-Grade Cable Option:** Tested to withstand 300,000 90-degree bends at temperatures as low as -22°F (-30°C). Continues to communicate when up to 60 pounds (27 kg) of force is applied.
- **Single Scanning Solution:** Can replace and consolidate multiple purpose-built scanners in typical distribution centre and warehouse environments.

Granit 1980i Technical Specifications

Mechanical

Dimensions (LxWxH)	133 mm x 75 mm x 195 mm (5.2" x 2.9" x 7.6")
Weight	335 g (11.8 oz)

Electrical

Input Voltage	4.0 to 5.5 VDC
Operating Power	2.35 W (470 mA @ 5.0 V)
Standby Power	0.5 W (100 mA @ 5.0 V)
Host System Interfaces	USB and True RS232

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	0 to 95% relative humidity, non-condensing
Drop	Designed to withstand 50 2 m (6.5') drops to concrete at -30°C (-22°F)
Tumble	5,000 1-metre (40") tumbles
Environmental Sealing	IP65
Light Levels	0 to 100,000 lux (9,290 foot-candles)
ESD	±20 kV air discharge, ±8 kV contact discharge

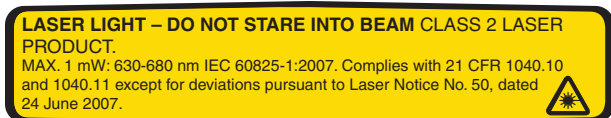
Scan Performance

Scan Pattern	Area Imager
Scan Angle	Horizontal: 12.9° Vertical: 8°
Symbol Contrast	1D Codes: 30% minimum reflectance difference 2D Codes: 40% minimum reflectance difference
Min. Resolution	1D & 2D Codes: 2 mil (0.051 mm)
Pitch, Skew	70°, 80°
Warranty	3-year factory warranty

Refer to the Honeywell Scanning & Mobility Compliance Centre (www.honeywellaidc.com/compliance) to review and download any publicly available documentation pertaining to the certification of this product in a given country.

Refer to the Honeywell Scanning & Mobility Supported Symbolologies Datasheet (www.honeywellaidc.com/symbolologies) for a complete listing of all supported barcode symbolologies.

Specifications are subject to change without notice.



Symbology	Barcode Narrow Width	Depth of Field (Typical*)
Code 39	7.5 mil (0.191 mm)	10.0 – 164.9 cm (3.9 – 64.9 in)
	10 mil (0.254 mm)	10.0 – 216 cm (3.9 – 85.0 in)
	20 mil (0.508 mm)	15.2 – 434.5 cm (6.0 – 171.0 in)
	40 mil (1.016 mm)	36.4 – 989.1 cm (14.3 – 389.4 in)
	55 mil (1.397 mm)	52.2 – 1322.4 cm (20.5 – 520.6 in)
	100 mil (2.54 mm)	103.4 – 1600 cm (40.7 – 629.9 in)
EAN/UPC	13 mil (0.33 mm)	12.2 – 229.8 cm (4.8 – 90.5 in)
DataMatrix	7.5 mil (0.191 mm)	10.0 – 75.9 cm (3.9 – 29.9 in)
	10 mil (0.254 mm)	10.0 – 102.3 cm (3.9 – 40.3 in)
	55 mil (1.397 mm)	42.8 – 591.3 cm (16.9 – 232.8 in)
	100 mil (2.54 mm)	80.7 – 1032.5 cm (31.8 – 406.5 in)

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

For more information:

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