



Honeywell Granit™ 198Xi Barcode Scanners

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BACKGROUND TIS GMBH

The TIS GmbH, based in Bocholt is one of the market leaders for sophisticated telematics projects. TIS stands for "Technical Information Systems". Since 1985 the company develops intelligent telematics solutions for freight forwarders, transport and logistics companies and retail chains. Currently, more than 50 employees work for TIS. The latest generation of products are the platform-independent software solutions under the brand name TISLOG Logistics & Mobility. Together with the powerful hardware of renowned partners and the in-house developed hardware accessories TISLOG builds the optimal solution for companies looking for professional telematics solutions.



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www.tis-gmbh.com

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 codes scanned at close range, to 100 mil codes hanging from warehouse rafters scanned at ranges of 52 feet (16m), 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 technologies that make it simple to use. An integrated laser pointer aiming system with auto-illumination, omni-directional reading capability, and support for centering 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 (1m) and 50 drops to concrete from 6.5 feet (2m)—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) codes out to 52 feet (16 m) and high density (2 mil) 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 ft (1 m) and 50 drops to concrete from 6.5 ft (2 m).
- **Easy to Use:** A laser-spot aimer, omni-directional scanning, and features such as centering 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 of force is applied.
- **Single Scanning Solution:** Can replace and consolidate multiple purpose-built scanners in typical distribution center 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 2m (6.5') drops to concrete at -30°C
Tumble	5,000 1m (40') tumbles
Environmental Sealing	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
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
Pitch, Skew	70°, 80°
Warranty	3 year factory warranty

Refer to the Honeywell Scanning & Mobility Compliance Center (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 Symbologies Datasheet (www.honeywellaidc.com/symbologies) for a complete listing of all supported bar code symbologies.

Specifications are subject to change without notice.

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. Complies with 21 CFR 1040.10 and 1040.11
 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

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

*Performance may be impacted by bar code quality and environmental conditions.

For more information:

www.honeywellaidc.com

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Honeywell Granit™ 198Xi Barcode Scanners

Hardware - Cables

Item number	Description
CBL-500-300-S00-03	Cable: USB, black, Type A, 3m (9.8'), straight, 5V host power, Industrial grade with Ferrite

Hardware - Kit

Item number	Description
1980IFR-3SER	SER Kit: 1D/2D, FR focus, red scanner (1980iFR-3) and RS232 Industrial Grade cable (CBL-020-300-C00-01). Regional Power Supply needs to be ordered separately.
1980IFR-3USB	USB Kit: 1D/2D, FR focus, red scanner (1980iFR-3), USB, black, Type A, 3m (9.8), straight, 5v host power, industrial grade (CBL-500-300-S00-03), with vibrator
1981IFR-3SER-5	SER Kit: 1D/2D, FR focus, red scanner, Bluetooth Class 1 (1981iFR-3), charge & communication base (CCB05-100BT-07N), RS232 Industrial Grade cable (CBL-020-300-C00-01). Regional Power Supply needs to be ordered separately.
1981IFR-3USB-5	USB Kit: 1D/2D, FR focus, red scanner, Bluetooth Class 1 (1981iFR-3), charge & communication base (CCB05-100BT-07N), USB, black, Type A, 3m (9.8), straight, 5v host power, industrial grade (CBL-500-300-S00-01), with vibrator

Hardware - Scanner Only - cable sold separately

Item number	Description
1980IFR-3	Scanner, 1D/2D, FR focus, red, RS232/USB, with vibrator
1981IFR-3	Scanner, 1D/2D, FR focus, red, Bluetooth Class 1, with vibrator

Hardware - Stands/Holders/Cordless Bases/Access Points

Item number	Description
AP05-100BT-07N	Access Point for Granit 1981i - Class 1 Bluetooth, 100m (300'), up to 7 scanners can be connected RS232/USB/KBW (cables sold separately)
CCB05-100BT-07N	Charge and Communication Base for Granit 1981i - Class 1 Bluetooth, 100m, up to 7 scanners can be connected, RS232/USB/KBW host interfaces (cable sold separately)
COB02	Charge-Only Base: only 1 scanner can be charged at a time, power supply must be purchased separately
HOLDER-010-U	Holder: desktop/wall mount (include mounting hardware)
STND-30R00-011-4	Stand: gray, 30cm (12") height, rigid rod, weighted base, Granit cradle
STND-33F00-012-4	Stand: gray, 33cm (13") height, flexible rod, weighted base, Granit cup
VMHOLDERK	Vehicle Mount Kit: contains vehicle mount forked holder (VM Holder), adjustable arm with ball joints (ADJARME) and mounting hardware

Accessories - Cables

Item number	Description
CBL-020-300-C00	Cable: RS232 (5V signals), black, DB9 Female, 3m (9.8'), coiled, 5V external power with option for host power on pin 9
CBL-020-300-C00-01	Cable - Industrial: RS232 (5V signals), black, DB9 Female, 3m (9.8'), coiled, 5V external power with option for host power on pin 9
CBL-500-300-C00	Cable: USB, black, Type A, 3m (9.8'), coiled, 5V host power
CBL-500-300-S00-01	Cable: USB, black, Type A, 3m (9.8'), straight, 5v host power, industrial grade
CBL-500-500-C00	Cable: USB, black, Type A, 5m (16.4'), coiled, 5V host power

Accessories - Chargers

Item number	Description
MB4-BAT-SCN01EUD0	Charger: 4-bay battery charger (EU) for use with 1902, 1452g, 1202g, 1911i, 1981i, 3820, 3820i, 4820, 4820i & 6320dpm Lithium-ion batteries, EU desktop power supply (PS-050-4000D-EU), two mounting screws (100006897), and Instructions (MBC-INST)
MB4-BAT-SCN01NAD0	Charger: 4-bay battery charger (NA) for use with Voyager 1202g, 1452g, Xenon 1902, Granit 1911i, Granit 1981i, 3820, 3820i, Lithium-ion batteries, NA desktop power supply (PS-050-4000D-NA), two mounting screws (100006897), and Instructions (MBC-INST)
MB4-BAT-SCN01UKD0	Charger: 4-bay battery charger (UK) for use with Xenon 1902, Granit 1911i, Granit 1981i, 3820, 3820i, 4820 & 4820i Lithium-ion batteries, UK desktop power supply (PS-050-4000D-UK), two mounting screws (100006897), and Instructions (MBC-INST)

Accessories - Heater

Item number	Description
520L-12-S3	SCANNER HEATER WITH CABLE RETRACTOR, 12V, works with 8500 and Granit series of scanners
520L-24-S3	SCANNER HEATER WITH CABLE RETRACTOR, 24V, works with 8500 and Granit series of scanners
520L-3648-S3	SCANNER HEATER WITH CABLE RETRACTOR, 36V-48V, works with 8500 and Granit series of scanners
521L-12-S3	SCANNER HEATER, 12V, works with 8500 and Granit series of scanners
521L-3648-S3	SCANNER HEATER, 36V-48V, works with 8500 and Granit series of scanners

Accessories - Parts - Customer Replaceable

Item number	Description
50110266-001FRE	END CAP, CORDLESS, 1911i & 1981i

Accessories - Power

Item number	Description
BAT-SCN01	Battery: Lithium-ion battery for Voyager 1202, 1452g, Xenon 1902, Granit 1911i, Granit 1981i, 3820 and 3820i cordless scanners
PS-05-1000W-C	Power Supply: EU plug, 1.0A @ 5.2 VDC, 90-255VAC @ 50-60Hz (commonly used in continental Europe) - to be used with CCB02-100BT-07N, CCB05-100BT-07N or CCB00-010BT-01N.
PS-05-1000W-G	Power Supply: UK plug, 1.0A @ 5.2 VDC, 90-255VAC @ 50-60Hz

Accessories - Stands/Holders/Cordless Bases/Access Points

Item number	Description
HOLSTER-INDUSTRIAL	When clipped to a user's belt holster enables storage of Granit 1911i and 1981i cordless imagers while leaving hands-free to accomplish other tasks (scanner sold separately)
TOOLBAL	Miscellaneous: Take up reel/balancer

MORE HONEYWELL BARCODE SCANNERS

Honeywell offers a whole variety of barcode scanners. Find more models here:

<http://country.honeywellaidc.com/en-GB/Pages/Category.aspx?category=industrial-bar-code-scanner&cat=HSM>

