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Granit 1280i

Industrial-Grade Full Range Laser Scanner

The Granit™ 1280i industrial-grade full range laser scanner goes the distance, reading bar codes out to 54 feet (16.5m). From poor quality 7.5 mil paper codes to 100 mil retro-reflective codes and everything in between, the 1280i is built to read virtually all linear bar codes across a wide depth-of-field range with ease — supporting maximum operator productivity with its enhanced reading range, intuitive and configurable aiming patterns, and quick responsiveness.

As a member of the Granit Family of industrial scanners, the 1280i is built to withstand the varied demands that exist in harsh working environments. Utilizing the Granit housing that sets the standard for scanner reliability, the 1280i is rated IP65 and is built to survive 5,000 (1m) tumbles and 50 drops to concrete from 6.5 feet (2m) — even at temperatures as low as -30°C. As a result, businesses deploying this industry-leading offering can expect to experience minimal device downtime and a lower overall cost of ownership.

Additionally, loud machinery and poor lighting conditions often pose a challenge for operators who rely on scanner feedback as confirmation of "good reads." The 1280i meets this challenge with bright LEDs, enhanced beeper volume and vibrating tactile response — ensuring rapid decode feedback and eliminating redundant scanning.

Created specifically for applications in which long distance scanning is expected and durability is highly valued, the Granit 1280i is the optimal solution for businesses operating in unpredictable conditions.



Features

- **Full Range Linear Depth of Field:** Scan out to 54 feet (16.5m) on 100 mil retro-reflective labels, or as close as 3.5" (8.9cm) on 7.5 mil high density bar codes and everything in between.
- **Industrial Grade Cable Option:** Tested to withstand 300,000 90° bends at -30°C and continues to communicate when 60lbs of force is applied. The industrial grade cable will stand up to your environment.
- **Optimized for Scanning-Intensive Industrial Applications:** Provides aggressive bar code reading and unrivaled accuracy, along with enhanced scanner feedback, for use in extremely noisy environments.
- **Class-Leading Durability:** The custom built IP65 rated housing is able to withstand 5,000 (1m) tumbles and survive 50 drops from 6.5 feet (2m) at -30°C (-22°F), reducing service costs and increasing device uptime.
- **Outstanding Scan Performance on Poor Quality and Damaged Bar Codes:** Maintains productivity by providing a worry-free scanning solution that minimizes the need for error-prone manual data entry.
- **Remote MasterMind™ Scanning Management Software:** Quick and convenient solution for IT administrators seeking to manage scanners within their network from a single remote location.

Granit 1280i Technical Specifications

Mechanical	
Dimensions (LxWxH)	133 mm x 75 mm x 195 mm (5.2” x 2.9” x 7.7”)
Weight	335g
Electrical	
Input Voltage	4.0 to 5.5 VDC
Operating Power	1.80 W (360mA @ 5 VDC)
Standby Power	0.75 W (150mA @ 5 VDC)
Host System Interface	True RS232
Environmental	
Tumble	5,000 1m (40”) tumbles
Environmental Sealing	IP65
Drop	Designed to withstand 50, 2m (6.5’) drops to concrete at across temperature range
Operating Temperature*	-30°C to 50°C (-22°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
ESD	±20Kv air discharge, ±8kV contact discharge
Humidity	Up to 95% relative humidity, non-condensing
Light Levels	0 to 70,000 lux (6,503 foot-candles)
Scan Performance	
Scan Pattern	Single Scan Line
Scan Angle	13.5° Typical
Symbol Contrast	35% gray on white contrast
Pitch, Skew, Tilt	±65°, ±65°, ±10°
Warranty	3 year factory warranty

*+40°C for presentation mode, industrial grade cable required for -30°C

Typical Performance*	Extended Range (ER)
Narrow Width	
Paper	
7.5 mil	3.5” – 18.5” (8.9cm – 47.0cm)
10 mil	4.0” – 32.5” (10.2cm – 82.5cm)
15 mil	4.0” – 62.5” (10.2cm – 158.7cm)
20 mil	4.5” – 83.4” (11.4cm – 211.8cm)
55 mil	13.5” – 178.5” (34.3cm – 453.4cm)
100 mil	36.5” – 183.5” (92.7cm – 466.1cm)
Retro-reflective	
70 mil	23.5” – 468.9” (59.7cm – 11.9m)
100 mil	38.5” – 649.6” (97.8cm – 16.5m)

*Performance may be impacted by bar code quality and environmental condition.
Minimum Resolution: 5.0mils



For more information:
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