Voyager 1202g-bf

Battery-Free Wireless Laser Scanner

Honeywell's Voyager™ 1202g-bf single-line laser scanner incorporates breakthrough battery-free technology, offering the freedom of Bluetooth® wireless technology without the maintenance hassle or long recharge time associated with traditional batteries. Like all other Voyager scanners, the 1202g-bf delivers aggressive linear bar code scanning performance—even on poor quality or damaged bar codes.

An integrated Bluetooth Class 2 radio grants users complete freedom of movement up to 10 meters (33 feet) from the base in a typical work environment. For added convenience, a paging system on the base activates auditory signals that help to locate a misplaced scanner. By eliminating the trip-hazard of tethered cables, the 1202g-bf can make for a safer and more productive work environment.

Battery-free wireless technology completely eliminates the battery, replacing it with a super-capacitor capable of achieving full-charge in less than 35 seconds, and providing enough wireless power to last at least 100 scans.[1] This makes the 1202g-bf ideal for applications where occasional wireless scanning is needed; for example, as a complement to bioptic (in-counter) scanners in retail environments where bulky items are sometimes left in shopping carts and must be scanned by hand. With no battery, a common maintenance hassle is removed and the scanner is lighter and more ecologically friendly.

Voyager is a plug-and-play scanner, and features a multi-interface design with automatic interface detection. By automatically configuring itself to the appropriate interface upon connection, the installation process is shortened, and the cumbersome task of scanning programming bar codes is eliminated.

Built on the proven Voyager platform, the 1202g-bf offers high performance linear bar code scanning and the convenience of wireless—all without the battery.

Features

- **Battery-Free Wireless Technology:** Fully charges in less than 35 seconds with a wall power adapter, and provides short-term power for at least 100 wireless scans.[1] By eliminating the battery, a common maintenance headache is removed, and the scanner is lighter and more environmentally friendly.

- **Bluetooth® Wireless Technology:** Grants wireless freedom of movement up to 10 meters (33 feet) from the base, depending on user environment.

- **Reliable Bar Code Reading:** Increase throughput and reduce the potential for hand-keyed errors by quickly scanning a variety of 1D bar codes, including those that are damaged or poor quality.

- **Automatic Interface Configuration:** Supports all popular interfaces in one device, replacing the time-consuming process of scanning programming bar codes with automatic interface detection and configuration.

- **Paging Functionality:** Simply press the button on the base to locate your lost scanner; Voyager responds with a series of beeps and blinking lights on its indicator panel.

[1] Honeywell's battery-free wireless technology powers the scanner for at least 100 scans, with one scan performed every second. For applications requiring more than 100 continuous wireless scans, a traditional battery-powered scanner such as the Voyager 1202g is recommended.

Voyager 1202g-bf Technical Specifications

Wireless

Radio/Range	2.4 to 2.5 GHz (ISM Band) Adaptive Frequency Hopping Bluetooth v2.1; Class 2: 10m (33') line of sight
Data Rate (Transmission Rate)	Up to 3 Mbps
Number of Scans	At least 100 scans, with one scan every second At least 35 scans, with one scan every 6 seconds
Expected Full Charge Time	Less than 35 seconds via wall power adapter Less than 90 seconds via USB power
Use Time per Full Charge	2-6 minutes (depending on use)

Mechanical/Electrical

Mechanical/Electrical	Scanner (Voyager 1202g-bf)	Charge & Communication Base
Dimensions	180 mm x 66 mm x 92 mm (7.1″ x 2.6″ x 3.6′)	200 mm x 67 mm x 97 mm (7.9″ x 2.6″ x 3.8′)
Weight	160 g (5.6 oz)	216 g (7.6 oz)

Operating Power	Scanning: 180mA @ 4.0V	Charging:
		  5W: (1A @ 5V peak) with AC wall supply
		  2.5W: (0.5A @ 5V peak) with USB

Non-Charging Power	Standby: 40mA at 4.0V	Base with Scanner: 1W (0.2A @ 5V) Base without Scanner : 0.5W (0.1A @ 5V) Suspend Mode: 0.0125W (0.0025A @ 5V)
Host System Interfaces	N/A	USB, RS232, RS485, KBW

Environmental

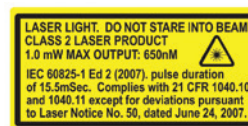| Environmental	Scanner (Voyager 1202g-bf)	Charge/Communication Base (CCB00-010BT-01N-BF)
Operating Temperature	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)
Humidity	5 to 95% relative humidity, non-condensing	5 to 95% relative humidity, non-condensing
Drop	Designed to withstand 30 1.5 m (5′) drops to concrete	Designed to withstand 30 1.0 m (3.3′) drops to concrete
Environmental Sealing	IP42	IP42
Light Levels	0 to 70,000 lux (6,500 foot-candles)	N/A

Scan Performance

Scan Pattern	Single scan line
Scan Speed (laser only)	100 scan lines per second
Scan Angle	Horizontal: 30°
Print Contrast	10% minimum reflectance difference
Pitch, Skew	60°, 60°
Decode Capabilities	Reads standard 1D and GS1 DataBar symbologies.
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
1.0 mW MAX OUTPUT: 650nM
IEC 60825-1 Ed 2 (2007). pulse duration of 15.5mSec. Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

Typical Performance*	
Narrow Width	Depth of Field
5 mil	27 mm - 151 mm (1.1″ - 5.9′)
7.5 mil	16 mm - 216 mm (0.6″ - 8.5′)
10 mil	0 mm - 277 mm (0″ - 10.9′)
13 mil	0 mm - 311 mm (0″ - 12.2′)
20 mil	0 mm - 367 mm (0″ - 14.4′)

*Resolution: 3.5 mil
*Performance may be impacted by bar code quality and environmental conditions

For more information:

www.honeywellaidc.com

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