3820i

Industrial-Grade Wireless Linear-Imaging Scanner

The 3820i industrial wireless linear-imaging scanner is designed to provide high-performance linear bar code scanning for applications that demand maximum reliability in the harshest working environments.

Powered by Adaptus® Imaging Technology 5.0, the 3820i delivers fast, intuitive bar code reading across a range of high and low density codes—even those that are damaged or poorly printed. In addition, the solid state technology platform adds to the device's overall durability and reliability.

Built for scan-intensive applications requiring a ruggedized solution, the 3820i features our highest drop specification and an IP54 rating to guarantee protection against the penetration of dust and liquid. However, unlike other industrial grade solutions, the 3820i features best-in-class ergonomics—ensuring maximum user comfort and productivity.

The 3820i features a unique design that not only allows tool-free access to the battery, but also eliminates the need to dock the scanner for charging—a true advantage for operations where downtime is not an option.

Bluetooth® wireless connectivity allows users to move freely and eliminates the hazard of cables in fast-paced environments—all the while ensuring fast, accurate data communication.

Features

- **Built for Industrial Applications:** Rugged housing is specified to withstand 50 drops from 6.5´ (2 m) and certified to IP54 standards, while still being ergonomic and easy-to-use

- **Wireless Connectivity:** Bluetooth v2.0 radio enables movement up to 33´ (10 m) from the base, and reduces interference with other wireless systems—up to seven imagers can communicate to a single base, reducing the total cost of ownership

- **High Performance Linear Bar Code Scanning:** Adaptus Imaging Technology 5.0 provides reading of all linear bar codes—even those that are damaged or poorly printed

- **Long-Lasting Lithium-Ion Battery:** Powers up to 50,000 scans per full charge, ensuring maximum uptime

- **Tool-Free Access to Battery:** Thumbwheel end-cap allows easy access to the battery, permitting employees to quickly swap batteries and keep working

- **Simplified Device Configuration:** Visual Xpress™ software enables device programming and configuration on a host system through an easy-to-use Windows®-based graphical user interface

- **User Feedback Designed for Extreme Environments:** Adjustable, extra loud "good read" beeper and dual LED indicators ensure reliable and intuitive feedback, even in noisy environment

3820i Technical Specifications

Wireless

Radio/Range	2.4 to 2.5 GHz (ISM Band) Adaptive Frequency - Hopping Bluetooth v2.0; Class 2:10 m (33') line of sight
Data Rate (Transmission Rate)	3 Mbit/s (2.1 Mbit/s)
Battery	1800 mAh Li-ion (minimum)
Number of Scans	57,000 scans per charge
Expected Hours of Operation	16 hours
Expected Charge Time	4 hours

Mechanical/Electrical

	Scanner	Base
Dimensions (LxWxH)	140 mm x 110 mm x 81 mm (5.5˝ x 4.3˝ x 3.2˝)	140 mm x 110 mm x 81 mm (5.5˝ x 4.3˝ x 3.2˝)
Weight	261 g (9.2 oz)	250 g (8.8 oz)
Operating Power (Charging)	N/A	9.9 W (825 mA @ 12 V)
Non-Charging Power	N/A	625 mW (125 mA @ 5 V); 1.2 W (100 mA @ 12 V)
Host System Interfaces	USB, TTL level RS232, Keyboard Wedge, IBM 46xx (RS485), Light Pen (Wand) Emulation	

Environmental

Operating Temperature	-10°C to 50°C (14°F to 122°F)	0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)	-40°C to 60°C (-40°F to 140°F)
Humidity	0% to 95% relative humidity, non-condensing	0% to 95% relative humidity, non-condensing
Drop	Designed to withstand 2.0 m (6.5') drops	Designed to withstand 1.0 m (3.3') drops
Environmental Sealing	IP54	Sealed to resist airborne particulate contaminants
Light Levels	76,000 Lux	

Scan Performance

Scan Pattern	Linear Image (CCD: 3648 pixels)
Scan Speed	270 scans per second
Motion Tolerance	5 cm/s (2 in/s) with 13 mil UPC at optimal focus
Scan Angle	Horizontal: 47°
Print Contrast	20% minimum reflectance difference
Pitch, Skew	65°, 65°
Decode Capabilities	Reads standard 1D and GS1 Databar symbologies.
Warranty	3 year factory warranty (Note: battery warranty is 1 year)

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance
For a complete listing of all supported bar code symbologies, please visit www.honeywellaidc.com/symbologies

Typical Performance*	
Narrow Width	Depth of Field
7.5 mil	165 mm - 381 mm (6.5˝ - 15˝)
100% UPC	64 mm - 711 mm (2.5˝ - 28˝)
15 mil	64 mm - 787 mm (2.5˝ - 31˝)
20 mil	38 mm - 1067 mm (1.5˝ - 42˝)
55 mil	102 mm - 2083 mm (4.0˝ - 82˝)

*Resolution: 7.5 mil (0.191 mm)
*Performance may be impacted by bar code quality and environmental conditions

For more information:

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