8820

Extended Range Rugged Wireless Scanner

The Honeywell 8820 rugged, wireless scanner provides the greatest working range of any available rugged scanner, allowing employees to scan items from as close as .25˝/.6 mm to as far away as 45´/13.7 m. It also allows employees to quickly switch from reading bar codes on inventory to capturing smaller symbologies on bar code menus and pick lists.

In the yard, warehouse, distribution center, manufacturing plant or retail store, the 8820 offers superior performance and reliability as well as a user-friendly form factor that helps ensure comfortable use over long shifts. Plus, integrated Bluetooth® provides reliable and secure wireless data transmission between the scanner and host.

With no cord between the scanner and host, employees can move freely throughout their work environment, increasing productivity and efficiency while keeping supply chain inventory up to date at all times. Plus, having no cord reduces downtime from cable breakdowns—a common point of failure in hand-held devices used in industrial facilities.

As rugged as it is innovative, the 8820 is designed for scan-intensive industrial applications in the harshest operating conditions. Industry-leading impact tests ensure reliable performance in spite of the inevitable accidental drops. The device is impervious to dust and water, and its exit window is scratch-resistant and recessed for the highest level of durability. As a result, you avoid unnecessary equipment downtime or expensive equipment replacement costs.

In addition to enhancing productivity, the 8820 offers a low TCO. The industrial-strength construction maximizes the scanner's working life, and multiple on-board interfaces provide true plug-and-play simplicity with your host system today and tomorrow.

Features

- **Extended Range Scanning:** Minimizes reach related accidents and maximizes productivity with easy scanning of bar codes as close as .25˝ (6 mm) and as far away as 45´ (13.7 m)

- **Ergonomic Design:** Easily fits oversized, gloved hands with intuitive aiming, improving worker productivity

- **Reliable Scanning:** Beepers and bright LED indicators ensure operators know when they've completed each scan

- **Durable Construction:** Reduces downtime and lowers the total cost of ownership with an IP65-rated design that can withstand accidental drops from as high as 6.5 feet (2m), as well as use in a wide range of temperatures (-20° C to 50° C, -4° F to 122° F)

- **Bluetooth®:** Class 2 Bluetooth® Wireless Connectivity Version 1.2 keeps the scanner connected up to 30´ (10 m) from the computer, increasing productivity by allowing workers to move to the task

8820 Technical Specifications

Wireless

Radio/Range	Bluetooth, Class 2, Version 1.2, Serial port and HID Profiles; 2.402 to 2.480 GHz adaptive frequency hopping (co-existence with 802.11 wireless networks); Data rate: 720 kbps; Radio Range: Up to 300´ in open air
Battery	2200 mAh Lithium Ion Battery
Expected Charge Time	Fully charged (100%) in 3 hours

Mechanical/Electrical

Dimensions (LxWxH)	74 mm x 122 mm x 186 mm (2.9˝ x 4.8˝ x 7.3˝)
Weight	420 g (14.8 oz)
Power Requirements	Cradle: 4.75 to 14 VDC
Standby Current	Cradle STB 3508 & FLB 3580: 10 mA; Cradle STB 3578 & FLB 3578: 105 mA @5V and 45 mA @9V
Light Source	650 nm visible laser diode
ESD	Conforms to 20 kV air discharge and 8 kV of contact discharge
Host System Interfaces	RS232, Keyboard Wedge, IBM 468X/469X, USB and Synapse

Environmental

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	5% to 95% relative humidity, non-condensing
Drop	Unit functions normally after repeated 6.5´ (2 m) drops to concrete
Environmental Sealing	Sealed to IP65 specifications
Light Levels	Immune to direct exposure of normal office and factory lighting conditions, as well as direct exposure to sunlight.

Scan Performance

Scanner Type	Retrocollective
Scan Speed	36 scans per second typical
Symbol Contrast	25% minimum reflectance difference
Roll, Pitch, Skew	±10°, ±65°, ±60°
Decode Capability	UPC.EAN, UPC.EAN with Supplemental, GS1-128 (formerly UCC/EAN 128), JAN 8 & 13, Code 39,Code 39 Full ASCII, Code 39 Trioptic, Code 128, Code 128 Full ASCII, Codabar (NW7), Interleaved 2 of 5, Discrete 2 of 5, Code 93, MSI, Code 11, Code 32, Bookland EAN, IATA, GS1DataBar (formerly RSS)
Warranty	3 year factory warranty

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 Code 39	6 mm - 508 mm (0.25˝ - 20.0˝)
10 mil Code 39	51 mm - 813 mm (2.0˝ - 32.0˝)
15 mil Code 39	76 mm - 1,753 mm (3.0˝ - 69.0˝)
20 mil Code 39	76 mm - 2,388 mm (3.0˝ - 94.0˝)
55 mil Code 39	381 mm - 4,572 mm (15.0˝ - 180.0˝)
70 mil Code 39 Reflective Label	Up to 9.27 m (up to 30´)
100 mil Code 39 Reflective Label	Up to 13.72 m (up to 45´)

Minimum Element Width: 7.5 mil (0.191 mm)

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

For more information:

www.honeywellaidc.com

Honeywell Scanning & Mobility

9680 Old Bailes Road

Fort Mill, SC 29707

800.582.4263

www.honeywell.com

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