

3800i

Industrial-Grade Linear-Imaging Scanner

The 3800i hand-held industrial image readers are the first industrial class readers to bring you Honeywell's industry-leading image technology. This technology allows you to read bar codes at ranges up to 82" (208 cm). In real world applications, this extended read range means less climbing and reaching, and more operator productivity.

Based on proprietary image technology, the 3800i picks up your bar code image and processes its content 270 times per second. In a fraction of a second, the Honeywell digital image processor quickly and easily determines the data content and sends it to your host computer. This proprietary technology quickly and securely identifies poor quality symbols, and still delivers snappy performance.

We are so confident the 3800i image reader will withstand your industrial applications that we have backed it by a solid warranty. Every 3800i comes to you with a three-year warranty against defects. Shock absorbing rubber overmold on the case and a sealed optics module ensure this device will survive dozens of 6.5' (2 meter) drops to concrete. Although we do not expect you to treat your reader this way, we know it will survive many years of accidental abuse.

Your industrial applications often take you into environments that challenge many devices. Your loading dock has extreme temperature variations, dirt, dust, and rain that will stress many bar code scanners. The 3800i is environmentally sealed to an IP54 rating, which prevents dust and water from entering the units and degrading performance. Sometimes you need to use this device outdoors during winter or other freezing temperature conditions. This imager withstands applications that subject it to constant -22°F (-30°C) temperatures and still survives.

For reading in applications that exhibit high ambient light, the 3800i can be ordered with an aiming beam, which offers true point and shoot performance without moving laser optics. This option allows the operator to reliably find and scan the code.



Features

- **Superior Read Range:** Imaging technology now extends the performance range out to 82" (208 cm) on linear codes, eliminating the need to reach and climb to scan codes
- **Durable:** There are no moving parts to wear out and Honeywell backs this with an industry-leading three-year warranty, ensuring reliable performance year after year with no downtime
- **Easy-to-Use:** True point and shoot hand-held ergonomics easily fits oversized gloved hands, while intuitive aiming means operators will become productive quickly
- **Rugged Packaging:** An impact-absorbing, shock-resistant housing withstands fifty 6.5' (2 meter) drops, and is sealed to prevent dust, moisture, and other contaminants from entering the scanner—designed to survive the most demanding industrial applications
- **Fast and Aggressive Decode:** Even on poorly printed or damaged codes, the 270 scans per second digital image logic is over six times faster than other technologies, allowing users to spend less time trying to re-scan poor codes and speed up the work process

3800i Technical Specifications

Mechanical

Dimensions (LxWxH)	135 mm x 81 mm x 163 mm (5.3" x 3.2" x 6.4")
Weight	213 g (7.5 oz)

Electrical

Input Voltage	4.5 - 14 VDC
Operating Power	1.2 W (235 mA @ 5 V); 1.7 W (142 mA @ 12 V)
Standby Power	340 mW (68 mA @ 5 V); 590 mW (49 mA @ 12 V)
Host System Interfaces	USB, TTL Level RS232, True RS232, Keyboard Wedge, IBM 46xx (RS485), Light Pen (Wand) Emulation

Environmental

Operating Temperature	-30°C to 50°C (-22°F to 122°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	0 to 95% relative humidity, non-condensing
Drop	Designed to withstand 2.0 m (6.5') drops
Environmental Sealing	IP54
Light Levels	70,000 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

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



For more information:
www.honeywellaidc.com

Honeywell Scanning & Mobility

9680 Old Bailes Road
 Fort Mill, SC 29707
 800.582.4263
www.honeywell.com

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



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



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