

4820

Wireless Area-Imaging Scanner

The 4820 wireless area-imager is designed to provide the unmatched data collection versatility of 2D imaging for a wide variety of light-industrial applications, with the convenience and freedom of Bluetooth® wireless connectivity.

Powered by Adaptus® Imaging Technology 5.0, the 4820 delivers highperformance omnidirectional linear, stacked and 2D bar code reading, plus the versatility of digital image capture capability. With Adaptus 5.0, enterprises have the ability to capture and process more data than ever before with a single device.

Designed for scan-intensive applications that require freedom of movement for the operator, the 4820 enables use up to 33´ (10 m) away from the base, and eliminates the hazards or hassles that can be presented by cables in fast-paced environments.

Built to ensure longevity and reliability in light-industrial applications, the 4820 features a solid-state design and a 6′ (1.8 m) drop specification, backed by a 3-year warranty—all without sacrificing comfortable user ergonomics.



Features

- Built for Light Industrial Applications: Solid state, no-moving-parts design withstands over 50 drops to concrete from 6' (1.8 m), while still being ergonomic and easy to use
- High Performance and Versatile Data Collection:
 Adaptus Imaging Technology 5.0 provides aggressive, omnidirectional reading of all linear and 2D bar codes, plus enables digital image capture
- 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 7 imagers can communicate to 1 base, reducing the total cost of ownership.
- Advanced Illumination Technology: Enhances performance and ease of use by delivering snappier scanning and minimizing reflection from shiny items
- Long-Lasting Lithium-Ion Battery: Powers up to 50,000 scans per full charge ensuring maximum uptime

- 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.
- Specialization Options
 - FIPS 140-2 Certified Encryption: Federal Information Processing Standards (FIPS) certified for wireless data transmission, meeting advanced US Government security requirements, and providing enhanced security in any application involving sensitive data
 - Bluetooth Interface Module Option: Enables simple and reliable wireless connectivity to the host system without the need for a base—ideal for uses where space is limited
 - Disinfectant-Ready Housing: Optimal for environments where scanner must be cleaned frequently with harsh chemicals.

4820 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)		
ttery 1,800 mAh Li-ion (minimum)			
Number of Scans	50,000 scans		
Expected Hours of Operation	16 hours		
Expected Charge Time	4 hours		
Mechanical/Electrical			
	Scanner	Base	
Dimensions (LxWxH)	135 mm x 81 mm x 163 mm (5.3" x 3.2" x 6.4")		
Weight	255 g (9 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	0°C to 50°C (32F° to 122°F)	0°C to 50°C (32°F to 122°F)	
Storage Temperature	-40°C to 60°C (-40°F to 140°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 1.8 m (6´) drops	Designed to withstand 1 m (3.3') drops	
Environmental Sealing	IP41	Sealed to resist airborne particulate contaminants	
Light Levels	100,000 Lux		
Scan Performance			
Scan Pattern	Area Image (752 x 480 pixel array)		
Motion Tolerance	Standard: 10 cm/s (4 in/s); Streaming Presentation: 50 cm/s (20 in/s) with 13 mil UPC at optimal focus		
Scan Angle	trast 20% minimum reflectance difference		
Print Contrast			
Pitch, Skew			
Decode Capabilities	le Capabilities Reads standard 1D, stacked, 2D and postal symbologies; limited OCR font reading		
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* (HD)		
Narrow Width	Depth of Field	
5 mil	48 mm - 97 mm (1.9" - 3.8")	
13 mil UPC	41 mm - 157 mm (1.6" - 6.2")	
6.6 mil PDF	41 mm - 114 mm (1.6" - 4.5")	
6.7 mil DM	61 mm - 89 mm (2.4" - 3.5")	
6.7 mil QR	58 mm - 86 mm (2.3" - 3.4")	
*Resolution: 5 mil (0.127 mm) *Performance may be impacted by bar code quality and environmental conditions		

Typical Performance* (SR)		
Narrow Width	Depth of Field	
8.3 mil	76 mm - 180 mm (3.0" - 7.1")	
13 mil UPC	41 mm - 323 mm (1.6" - 12.7")	
6.6 mil PDF	102 mm - 145 mm (4.0" - 5.7")	
15 mil PDF	46 mm - 246 mm (1.8" - 9.7")	
35 mil MC	38 mm - 318 mm (1.5" - 12.5")	
*Resolution: 8.3 mil (0.211 mm) *Performance may be impacted by bar code quality and environmental conditions		

Typical Performance* (SF)		
Narrow Width	Depth of Field	
5 mil	79 mm - 94 mm (3.1" - 3.7")	
13 mil UPC	38 mm - 213 mm (1.5" - 8.4")	
6.6 mil PDF	58 mm - 140 mm (2.3" - 5.5")	
15 mil DM	33 mm - 178 mm (1.3" - 7.0")	
15 mil QR	43 mm - 170 mm (1.7" - 6.7")	
*Resolution: 5 mil (0.127 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

