Honeywell

4820

Cordless 2D Imager

The 4820 Cordless 2D 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 high-performance omni-directional linear, stacked and 2D barcode 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 ft. (10m) 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 ft. (1.8m) drop specification, backed by a 3-year warranty - all without sacrificing comfortable user ergonomics.

powered by Adaptus® imaging technology 5.0

Features

- **Built for Light Industrial Applications:** Solid state, no-moving-parts design withstands over 50 drops to concrete from 6 feet (1.8m), while still being ergonomic and easy to use.
- **High Performance and Versatile Data Collection:** Adaptus Imaging Technology 5.0 provides aggressive, omni-directional reading of all linear and 2D barcodes, plus enables digital image capture.
- **Wireless Connectivity:** Bluetooth v1.2 radio enables movement up to 33 feet (10m) 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. (See reverse for listing of approved cleaners)

4820 Specifications

Performance

Illumination LEDs:	617nm ±30nm
Aiming (Green LED Aimer):	526nm ±30nm
Image:	VGA, 752x480. Binary, TIFF, or JPEG output.

Working Range:

4820SR	8.3 mil Linear (.021cm)	13 mil UPC (.033cm)	6.6 mil PDF417 (.017cm)	10 mil PDF417 (.025cm)	15 mil PDF417 (.038cm)	35 mil MaxiCode (.089cm)
Near	3.0 in. (7.6cm)	1.6 in. (4.1cm)	4.0 in. (10.2cm)	2.6 in. (6.6cm)	1.8 in. (4.6cm)	1.5 in. (3.8cm)
Far	7.1 in. (18.0cm)	12.7 in. (32.3cm)	5.7 in. (14.5cm)	8.5 in. (21.6cm)	9.7 in. (24.6cm)	12.5 in. (31.8cm)
4820SF	**7.5 mil Linear (.019cm)**	**13 mil UPC (.033cm)**	**6.6 mil PDF417 (.017cm)**	**10 mil PDF417 (.025cm)**	**15 mil Data Matrix (.038cm)**	**15 mil QR Code (.038cm)**
Near	2.0 in. (5.1cm)	1.5 in. (3.8cm)	2.3 in. (5.8cm)	1.7 in. (4.3cm)	1.3 in. (3.3cm)	1.7 in. (4.3 cm)
Far	6.0 in. (15.2cm)	8.4 in. (21.3cm)	5.5 in. (14.0cm)	7.1 in. (18.0cm)	7.0 in. (17.8cm)	6.7 in. (17.0cm)

Pitch/Skew Angle:	±40º
Motion Tolerance:	Standard: 4 in. (10 cm) per second Streaming Presentation™ Mode SF: 20 in. (50 cm) per second on 100% UPC/EAN at the plane of optimum focus

Wireless Technology

Frequency:	2.4 to 2.4835 GHz (ISM Band) Frequency-Hopping Bluetooth v. 1.2
Range:	33 ft. (10 m) typical
Data Rates:	720 KBps
Security:	FIPS 140-2 (Certification Pending)

Battery (Lithium Ion)

Capacity:	1,800 mAh (minimum)
Number of Scans:	50,000
Expected Hours of Operation:	16 hours
Charge Time with 9 VDC External Power Supply:	4 hours for full charge from full discharge

Symbologies

2 Dimensional:	PDF417, MicroPDF417, MaxiCode, Data Matrix, QR Code, Aztec, Aztec Mesas, Code 49, and EAN•UCC Composite
Linear:	Codabar, Code 39, Interleaved 2 of 5, Code 93, Code 128, UPC, EAN, RSS, Codablock, and ISBT 128 Concatenation* *requires a paid license
Postal:	Postnet, Planet Code, British Post, Canadian Post, Japanese Post, KIX (Netherlands Post)
OCR Fonts:	OCR-A, OCR-B
Interfaces:	Keyboard wedge, USB, TTL level RS-232, wand emulation, TTL level Serial Wedge, and IBM 46XX retail terminals.

Mechanical/Electrical

	4820 Scanner	2020 Base
Weight:	9 oz. (255 g)	8.8 oz. (250 g) w/o cable
Height:	6.5 in. (16.5 cm)	3.1 in. (7.9 cm)
Input Voltage:	3.7 V internal battery	4.7 to 14 VDC (host) 8.5 to 9.5 VDC external power supply
Current Draw:		125mA max @ 5V (no charging) 100 mA max @ 12V (no charging) 825mA max @ 12V (charging)

Environmental

	4820 Scanner	2020 Base
Sealing:	IP 41 (Water and Dust Resistant)	
Operating Temperature:	32º to 122ºF (0º to 50ºC)	32º to 122ºF (0º to 50ºC)
Storage Temperature:	-40º to 140ºF (-40º to 60ºC)	-40º to 140ºF (-40º to 60ºC)
Humidity:	0 to 95%, non condensing	up to 95%, non condensing
Mechanical Shock:	Functional after 50 drops from 6 ft. (1.8 m)	Functional after 50 drops from 3.3 ft. (1 m)

Agency:	**International:** CB scheme to IEC60950-1 & IEC60825-1 Class 1 LED (4820). Bluetooth Qualified Design listed. **USA:** FCC Part 15 subpart C. UL listed to 60950-1. **Canada:** RSS-210. cUL listed to CSA C22.2 No. 60950-1-03. **Europe:** CE 1999/5/EC R&TTE Directive to EN55022, EN55024, EN61000-3-2, EN61000-3-3. 2006/95/EC Low Voltage Directive (2020). **GS Mark:** GS marked for I.T.E. safety. **Mexico:** NOM-NYCE, COFETEL. **Australia/NZ:** C-Tick mark.
Cleaners Approved for Use with Disinfectant-Ready Housing:	Sani-Cloth® HB, Sani-Cloth® Plus, CaviWipes™, Virex® 256, 409® Glass and Surface Cleaner, Windex® Blue, Clorox® Bleach (100%)

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