

4820i

INDUSTRIAL CORDLESS 2D IMAGER



The 4820i Industrial Cordless 2D Imager is designed to provide unmatched data collection performance and versatility for applications that demand maximum reliability in the harshest working environments.

Powered by Adaptus® Imaging Technology 5.0, the 4820i delivers high-performance, omni-directional linear and 2D barcode reading plus the versatility of digital image capture. With Adaptus 5.0, enterprises have the ability to capture and process more data with a single device.

Built for scan-intensive applications requiring a ruggedized solution, the 4820i 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 4820i features best-in-class ergonomics – ensuring maximum user comfort and productivity.

The 4820i 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® cordless 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 2 m and certified to IP54 standards, while still being ergonomic and easy-to-use.
- **Wireless Connectivity:** Bluetooth v1.2 radio enables movement up to 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.
- **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.
- **Advanced Illumination Technology:** Enhances performance and ease of use by delivering snappier scanning and minimizing reflection from shiny items.
- **Long-Lasting Lithium-Ion Battery with Tool-Free Access:** Powers up to 50 000 scans per full charge ensuring maximum uptime. Thumbwheel end-cap allows easy access to the battery, permitting employees to quickly swap batteries and keep working instead of docking the scanner for charging – a key feature for operations running multiple shifts.
- **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 & intuitive feedback even in noisy environments.
- **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



4820i

TECHNICAL SPECIFICATIONS

Performance

Illumination	LEDs 617 nm ± 30 nm					
Green LED Aimer	526 nm ± 30 nm					
Image	VGA, 752 x 480. Binary, TIFF, or JPEG output					
Working Range						
4820ISR	8,3 mil Linear	13 mil UPC	6,6 mil PDF417	10 mil PDF417	15 mil Data Matrix	35 mil MaxiCode
Near	7,6 cm	4,1 cm	10,2 cm	6,6 cm	4,6 cm	3,8 cm
Far	18,0 cm	32,3 cm	14,5 cm	21,6 cm	24,6 cm	31,8 cm
4820ISF	7,5 mil Linear	13 mil UPC	6,6 mil PDF417	10 mil PDF417	15 mil Data Matrix	15 mil QR Code
Near	5,1 cm	3,8 cm	5,8 cm	5,6 cm	4,6 cm	5,6 cm
Far	15,2 cm	21,3 cm	14,0 cm	18,0 cm	17,8 cm	17,0 cm
Pitch/Skew Angle	+40°					
Motion Tolerance	Standard: 10 cm per second Streaming Presentation™ Mode SF: 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	10 m typical
Data Rates	720 kbps
Security	FIPS 140-2 (Certification Pending)
Battery (Lithium Ion)	Capacity 2200 mAh
Number of Scans	50000
Expected Hours of Operation	16 hours
Charge Time at 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, EAN•UCC Composite
Linear	Codabar, Code 39, Interleaved 2 of 5, Code 93, Code 128, UPC, EAN, GS1 DataBar, 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, IBM 46XX retail terminals

Mechanical/Electrical

4820i Scanner	2020 Base
Dimensions	
Height	15,7 cm
Weight	272 g
Power Requirements	
Input Voltage	3,7 V internal battery
Current Draw	4,7 to 14 VDC (host) 8,5 to 9,5 VDC brick 125 mA max @ 5 V (no charging) 100 mA max @ 12 V (no charging) 825 mA max @ 12 V (charging)

Environmental

Sealing	IP54
Operating Temperature	-10° to 50°C
Storage Temperature	-40° to 70°C
Humidity	0 to 95%, non condensing
Mechanical Shock	Functional after 50 dr. from 2,0 m
Agency	Functional after 50 dr. from 1m International: CB scheme to IEC60950-1 & IEC60825-1 Class 1 LED (4820i). 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.
Warranty	3 years (Note: battery warranty is 1 year)

ZUBEHÖR



Base



4-Slot-Charger



Battery Charge Sleeve



Cordless Battery Charge kit



HolsterE

BARCODAT

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