3820i

Industrial Cordless Linear Imager

The 3820i Industrial Cordless Linear Imager is designed to provide high-performance linear barcode scanning for applications that demand maximum reliability in the harshest working environments.

Powered by Adaptus® Imaging Technology 5.0, the 3820i delivers fast, intuitive barcode 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® 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.

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Adaptus®
imaging technology 5.0

Features

- **Built for Industrial Applications:** Rugged housing is specified to withstand 50 drops from 6.5 feet (2m) and certified to IP54 standards, while still being ergonomic and easy-to-use.

- **Wireless Connectivity:** Bluetooth v2.0 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.

- **High Performance Linear Barcode Scanning:** Adaptus Imaging Technology 5.0 provides reading of all linear barcodes - even those that are damaged or poorly printed.

- **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.

- **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.

3820i Specifications

Performance

Illumination:	630 NM Visible Red LED
Receiving Device:	3648 element linear imager
Reading Distance:	From 1 in. (2.5 cm) to 24 in. (61 cm) on medium density codes
Reading Width:	7.5 mil code: 7 in. (18 cm) from nose, 6.6 in. (17 cm) wide 13 mil code: 16.5 in. (42 cm) from nose, 10 in. (25 cm) wide
Resolution:	5 mil. at 5 in. (13 cm) distance
Skew Angle:	$\pm65^\circ$
Pitch Angle:	$\pm65^\circ$
Minimum Symbol Contrast:	20%
Scan Rate:	Up to 270 scans per second
Decode Rate:	270 decodes per second

Wireless Technology

Frequency:	2.4 to 2.4835 GHz (ISM Band) Frequency-Hopping Bluetooth PRD 2.0 plus EDR
Range:	33 ft. (10 m) typical
Data Rates:	720 KBps to 3 MBps
Security:	FIPS 140-2 optional

Battery (Lithium Ion)

Capacity:	2,000 mAh (typical)
Number of Scans:	57,000
Expected Hours of Operation:	16 hours
Charge Time with 9 VDC External Power Supply:	4 hours for full charge from full discharge
Symbologies:	China Post, Codabar, Codablock F, Code 2 of 5, Code 11, Code 16K, Code 39, Code 32 Pharmaceutical (PARAF), Code 49, Code 128, EAN/JAN, IATA Code 2 of 5, Interleaved 2 of 5, Korea Post, Matrix 2 of 5, Coupon Code, MSI, Plessey Code, PosiCode, GS1 DataBar, Telepen, Trioptic, UPC-A, UPC-E, and ISBT 128 Concatenation (requires a paid license). 2005 Sunrise/GTIN compliant.
Interfaces:	All popular PCs and terminals via keyboard wedge, keyboard replacement/direct connect, USB, TTL level RS-232, wand emulation mode, TTL level Serial Wedge, and IBM 46XX retail terminals.

Mechanical/Electrical

Dimensions	3820i Scanner with Battery	2020 Base
Weight:	9.6 oz. (272 g)	8.8 oz. (250 g) w/o cable
Height:	6.5 in. (16.5 cm)	3.1 in. (7.9 cm)
Power Requirements		
Input Voltage:	3.7 V internal battery	4.7 to 14 VDC (host) 8.5 to 9.5 VDC external power supply
Current Draw		
		125 mA max @ 5V (no charging) 100 mA max @ 12V (no charging) 825 mA max @ 12V (charging)

Environmental

	3820i Scanner with Battery	2020 Base
Sealing:	IP 54 (Water and Dust Resistant)	
Operating Temperature:	14° to 122°F (-10° to 50°C)	32° to 122°F (0° to 50°C)
Storage Temperature:	-40° to 158°F (-40° to 70°C)	-40° to 140°F (-40° to 60°C)
Humidity:	up to 95%, non condensing	up to 95%, non condensing
Mechanical Shock:	Functional after 50 drops from 6.5 ft. (2.0 m)	Functional after 50 drops from 3.3 ft. (1 m)
Ambient Illumination:	0-76,000 lux	
ESD Protection:	Functional after 15 kV discharge	
Agency:	**International:** CB scheme to IEC60950-1 & IEC60825-1 Class 1 LED (3820i). Bluetooth Qualified Design listed QDID: B013520. **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. **Australia/NZ:** C-Tick mark.	
Warranty:	3 years (Note: battery warranty is 1 year)	

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Bluetooth

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