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.

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.

"powered by Adaptus® Imaging Technology 5.0"
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:** ±65°

**Pitch Angle:** ±65°

**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


**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°F to 122°F (-10° to 50°C)

**Storage Temperature:** -40°F to 158°F (-40° to 70°C)

**Humidity:** up to 95%, non condensing

**Mechanical Shock:** Functional after 50 drops from 6.5 ft. (2.0 m)

**Ambient Illumination:** 0-76,000 lux

**ESD Protection:** Functional after 15 kV discharge

**Agency:**

**Warranty:** 3 years. (Note: battery warranty is 1 year)

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