

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

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

	3820i Scanner with Battery	2020 Base
Dimensions		
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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The 3820i Industrial Cordless Linear Imager has no affiliation with Honeywell branded batteries/chargers, which are exclusively distributed by Global Technology Systems pursuant to a license agreement.

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