IMAGETEAM™ 3870
Cordless Linear Imager

Features

Multiple Scanner Support - Each base unit supports up to nine scanners simultaneously. This increases productivity and flexibility without the added costs of additional bases and terminals.

Application Work Groups - Supports up to nine application work groups on a single base. This extremely powerful feature increases the number of jobs supported by a terminal, and allows you to easily adjust to changing workloads.

Broad Range Coverage - Scanner coverage of 31,400 square feet (2,919 square meters) increases mobility and productivity by allowing the scanner to be taken to the job, rather than taking the job to the scanner.

Eliminates Cables - Improves safety conditions by avoiding accidents and injury as a result of cables becoming entangled in equipment and machinery. Eliminates cable replacement costs.

Unique Charge Pack Design - Removable charge pack that is recharged simply by plugging into a wall outlet, then operates through the entire work day.

Rugged Design - Water and dust resistant to IP 54 rating.

State-of-the-Art Radio Technology - Two-way 2.4 GHz frequency hopping spread spectrum radio with forward error correction is robust against interference. Makes use of the license-free ISM band. Robust system delivers reliable and snappy, error-free communication.

The IMAGETEAM™ (IT)3870 cordless scanner addresses the needs of many applications. It is designed for tough industrial use, such as on loading docks, where shipping and receiving of materials requires the freedom to move around, and industry standards recommend the use of linear bar codes and PDF417 codes on shipping labels. The cordless scanner is also ideal for manufacturing applications, such as work-in-process, where safety may be an issue. Eliminating the cables prevents the cord from getting entangled in machinery and equipment, thus avoiding the chance of an accident. Other applications include interfacing to RF LAN based terminals mounted on forklift trucks, tool crib management, asset tracking, inventory control, and point-of-sale terminals.

The IT3870 joins a family of rugged and reliable cordless products, including the SCANTEAM® 2070 host interface base unit. The IT3870PDF is designed for aggressive reading performance on PDF417 and MicroPDF417. The IT3870HD reads high density bar codes with dimensions as small as 3 mil., while the IT3870LX reads 15 mil. codes out to 18 inches. All these configurations feature an IP 54 sealed-enclosure rating and the industry's best drop specification for cordless scanners.

The IT3870 features linear imaging technology in a cordless bar code reader. A bright, sharp aiming line and high-resolution imaging combine to deliver bar code reading performance that was previously only possible using a laser scanner.

The IT3870 offers many advantages over a laser scanner. Its aiming line is brighter than a standard laser. It scans and decodes 270 times per second, about seven times faster than a laser. It can read all common linear bar codes, plus PDF417 and MicroPDF417. Thanks to onboard Flash memory, the reader can be easily upgraded when new features and new symbologies become available.

Upgrade your image.

IMAGETEAM 3870 *Specifications*

Optical Performance

Illumination:	630 nm Visible Red LED
Receiving Device:	3648 element linear imager
Skew Angle:	$\pm30^0$
Pitch Angle:	$\pm15^0$
Horizontal Velocity:	3 in. (7.6 cm) per second
Min. Reflective Difference:	30%
Scan Rate:	270 scans per second

Mechanical/Electrical

Dimensions	3870 Scanner	2070 Base
Weight:	16 oz. (448 g)	7.25 oz. (206 g) w/o cable
Height:	8.5 in. (21.6 cm)	1.4 in. (3.6 cm)
Power Requirements		
Input Voltage:	4 to 14 VDC	4 to 14 VDC
Current Draw		
Operating:	425 mA (typical) while scanning	325 mA (typical) @ 5 VDC
Standby:	30 mA	NA

Environmental

	3870 Scanner	2070 Base
Sealing:	IP 54 (Water and Dust Resistant)	IP 53 (Water and Dust Resistant)
Temperature		
Operating:	32º to 122ºF (0º to 50ºC)	-4 to 122ºF (-20º to 50ºC)
Storage:	-22º to 140ºF (-30º to 60ºC)	-40º to 158ºF (-40º to 70ºC)
Humidity:	0 to 95%, non condensing	0 to 95%, non condensing
Mechanical Shock:	Functional after 26 drops from 6 ft. (1.8 m)	Functional after 26 drops from 4 ft. (1.2 m)

Ambient Illumination:	0-100,000 lux NA
ESD Protection:	Functional after 15 kV discharge

Radio

Frequency:	2.4 to 2.4835 GHz (ISM Band) Frequency-Hopping Spread Spectrum
Range:	100 ft. (30 m) typical
Data Rates:	1 Mbps

Charge Pack

	Nickel Metal Hydride (NiMH) battery
Input Voltage:	120 V/240 V, 50 Hz/60 Hz
Capacity:	1200 mAh
Number of Scans:	18,000
Expected Hours of Operation:	25 hours @ 1 scan every 5 seconds
Charge Time at 120 Vac:	6 hours for full charge from full discharge

Symbologies

Symbologies Supported: Codabar, Code 39, Code 128, ISBT 128, UPC/UPC-E, EAN/JAN, Interleaved 2 of 5, Code 2 of 5, Matrix 2 of 5, Code 93, Code 11, ISBN, Telepen, and Reduced Space Symbology (RSS). IT3870PDF: PDF417, MicroPDF417, and EAN•UCC Composite Symbology.

Warranty

Three year factory warranty

Agency Conformance

Electromagnetic Emissions/Immunity	Safety	RF Approvals
USA: FCC Part 15, Class B **Canada:** SOR 88/475 Class B **Europe:** EN 55022 (CISPR22) Class B, EN 61000-3-2 & -3, ETS 300 826 **Other:** EMC 89/336/EEC, EN 50082-1:1992, IEC 801-2:1991, IEC 801-3:1984, IEC 801-4:1988	**USA:** UL listed, C22.2 No 950/UL 1950 **Canada:** cUL Listed **Europe:** TUV Rheinland GS Licensed EN 60950 (IEC950) **Australia:** AS/NZS 3548	**USA:** FCC Part 15.249 **Canada:** RSS 210 **Europe:** ETS 300 328