L780BT Series

A Ruggedized, High Performance Cordless Laser Imager for Industry and General Purpose Applications

Sharp laser aiming for quick and precise barcode capture in any lighting condition

Ruggedized construction without moving parts inside withstands multiple drops to concrete from 1.8 meter

Unsurpassed readability on high-density, low contrast, poorly-printed, laminated, low-height and on-screen barcodes

Bluetooth 2.1 EDR wireless technology with more than 80m communication coverage

Plug-and-play cordless migration by working with smart cradle

Support multiple connections up to 7 scanners in PICO mode

Support both HID and SPP profiles to connect with most Bluetooth-enabled hosts

Memory storage up to 20,000 EAN-13 scans for batch scanning

Batch scanning function is ideal for inventory application

Support out-of-range scanning and auto-reconnection features

Outstanding reading capability on 3 mil barcode with more than 2" depth of field

GS1 DataBar Linear-stacked, PDF, MicroPDF and composite code are supported

The revolutionary FuzzyScan L780BT bar code laser imager is built on the heritage of L780BT renowned quality with additional laser aiming feature. Constructed with ruggedized housing without moving parts inside, the FuzzyScan L780BT provides the benefits of long term reliability and lower total cost of ownership. The ultimate blend of outstanding reading performance, sharp laser aiming and high dependability deliver premium value, make it an most optimal solution to replace the traditional cordless laser bar code scanner for industry and general purpose applications.

Exceptional reading capability with sharp laser aiming

Besides the unique-designed laser aiming, the FuzzyScan L780BT inherits all advantages of linear imager, such as snappy reading, outstanding readability of most poor quality bar codes. The mobile barcode marketing is an emerging application, the L780BT is capable of reading on-screen barcodes such as mobile ticketing and coupon well while laser bar code scanner can not.

Superior wireless connectivity

L780BT provides several radio link modes to communicate with most host devices. When Bluetooth-enabled host device is not available, it can work with the smart cradle in PAIR mode or PICO mode. This provides an instant plug-and-play cordless migration to your existing non-Bluetooth-enabled IT assets. Moreover, the PICO mode supports multiple connections up to 7 scanners with one smart cradle, reducing your total cost of ownership. Furthermore, you also can use L780BT with Bluetooth-enabled host devices via SPP or HID service in SPP mode or HID mode.

All-around functionality for diverse applications

To suit diverse business applications, L780BT is feature-rich to represent its best value in its class. When enabling Batch Scanning function, L780BT is capable of collecting more than 20,000 EAN-13 barcode data. This makes L780BT ideal for inventory application. The Out-of-range scanning feature allows L780BT to continue scanning data even when it loses radio connection. Once the Presentation Scanning Auto-sense function is enabled for hand-free application, the L780BT switches from trigger mode to presentation mode automatically when it is placed on SmartStand or smart cradle.

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Specifications

Performance Characteristics

Optical System	High performance Linear Imaging Engine
Print Contrast	25% minimum reflective difference
Minimum Resolution	Typical 3 mil (Code 39, PCS 0.9)
Working Distance [1]	More than 16 inches on 100% UPC/EAN symbols More than 24 inches on 20 mil Code 39
Light Source	630nm visible red LED with laser aiming
Scan Rate	Dynamic scanning rate up to 500 scans per second
Reading Direction	Bi-directional (forward and backward)
Pitch/Skew/Tilt	$\pm 65˚/\pm 65˚/\pm 55˚$
Operating Modes	Trigger, Presentation
Configuration Setup	Bar code command Windows utility - FuzzyScan PowerTool
Data Editing	Condensed DataWizard via bar code command Full-feature DataWizard via FuzzyScan PowerTool
User Interfaces	Blue link indicator and 2-color status indicator Programmable beeper Optional vibrator

Electrical Characteristics

Battery	3.7V, 2200mAH Li-ion rechargeable battery	
Battery Charge Time	Approx. 4-5 hours per full charge	
Scans per full Charge [2]	More than 45,000 scans and transmissions	
Voltage & Current (Scanner and Cradle)	Voltage 5 ± 10% VDC	Current (Charging/ Non Charging) Max.680 mA / 85mA with external power

Communication Characteristics

RF Standard	Bluetooth v2.1 EDR
RF Frequency	Band 2.402~2.4830 GHz unlicensed ISM band
Radio Link Modes	PAIR mode, PICO mode, SPP mode, HID mode
Communication Range	More than 80 meters in open space when working with smart cradle, line of sight
Supported Profiles	SPP, HID

Supported Symbologies

1D Linear (L780BT)	Code 39, Code 39 Full ASCII, Code 32, Code 39 Trioptic Code 128, UCC/EAN-128, Codabar, Code 11, Code 93 Standard & Industrial 2 of 5, Interleaved & Matrix 2 of 5 German Postal Code, China Postal Code, IATA UPC/EAN/JAN, UPC/EAN/JAN with Addendum Telepen, MSI/Plessey & UK/Plessey GS1 DataBar (formly RSS) Linear & Linear Stacked
Linear-stacked (L788BT)	PDF417, Micro PDF417, Codablock, Composite (available for F788BT only)

User Environment

Drop Specifications	Withstand multiple 1.8m/6ft. drops to concrete
Environmental Sealing	IP41
Operating Temperature	-10 ˚C to 50 ˚C (14 ˚F to 122 ˚F)
Storage Temperature	-40 ˚C to 70 ˚C (-40 ˚F to 158 ˚F)
Humidity	5% to 95% related humidity, non-condensing
Ambient Light Immunity	0 ~ 100,000 lux
ESD Protection	Functional after 15kV discharge

Physical Characteristics

Dimension	97.8 mm (L) x 70.5 mm (W) x 156.2 mm (D) 3.85 in. (L) x 2.77 in. (W) x 6.15 in. (D)
Weight	230g (battery included)
Color	Light Gray or Black

Safety & Regulatory

EMI/RFI	FCC Part 15 Class B, Taiwan EMC (BSMI) European Union EMC Directive (CE)
Radio	FCC Part 15 Subpart C, Japan MIC T401 CE EN300 328, Taiwan LP0002 (NCC)
Safety [3]	LED Eye Safety IEC60825-1, EN60825-1 Laser Eye Safety IEC60825-1, Class 1
Environmental	Compliant with RoHS directive

Accessories

Smart Cradle	RF Standard	: Bluetooth v2.1 EDR
	Battery charging	: Fast charge
	User Interfaces	: 1 blue link indicator 2-color status indicator Beeper, Paging/Reset button
	Host Interface	: PS/2 (DOS V) Keyboard Wedge, TTL RS232 Serial, USB HID, USB COM
Charging Cradle	Battery charging	: Fast charge
	User Interface	: 1 blue power indicator
Interface Cables	PS/2 (DOS V) Keyboard Wedge Cable RS232 Serial Cable USB Cable	
Others	5VDC Power Supply Unit Hand-Free SmartStand Universal Holder	

1. The working distances are measured in 400lux office environment using Grade A bar codes.
2. The number of scans per full charge is measured under factory preset test condition.
3. Don't stare into the Laser beam.

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