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 2.0 meter

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

Bluetooth v4.0 wireless technology with more than 100m 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 80,000 EAN-13 scans for batch scanning

Batch scanning function is ideal for inventory application

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

Up to 34" reading range on general barcodes

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, and also with drop resistance from 2.0 meters to concrete, 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 a 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

Thanks to the cutting-edge FuzzyScan 3.0 Technology, the L780BT Series provide superior scanning performance. 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 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 can collect more than 80,000 EAN-13 barcode data. This makes L780BT ideal for inventory application. 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	20% minimum reflective difference
Minimum Resolution	Typical 3 mil (Code 39, PCS 0.9)
Working Distance *1	Up to 24 inches on 100% UPC/EAN symbols Up to 34 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	± 65˚/± 65˚/± 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, 2600mAH Li-ion rechargeable battery
Battery Charge Time	Approx. 4-5 hours per full charge
Scans per full Charge *2	More than 126,000 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 v4.0
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 100 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, GS1-128, 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 F, Composite (available for L788BT only)

User Environment

Drop Specifications	Withstand 50 drops at 6.0ft / 1.8m to concrete Withstand 10 drops at 6.6ft / 2.0m 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

EMC & Radio:	CE, FCC, BSMI, C-Tick, KC, NCC, VCCI, MIC
Safety *3	Led Eye Safety IEC62471,Exempt Group Laser Eye Safety IEC60825-1, Class 1
Environmental	Compliant with RoHS directive

Accessories

Smart Cradle	RF Standard	: Bluetooth v4.0
	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 Battery Pack BT2100 (2600mAh) US100 Hand-free SmartStand US50 Hand-Free Stand Universal Holder	

1. The reading distances are measured under Cino's test environmental condition.
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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