F790BT Series

A ruggedized long range cordless scanner for general purpose and industry applications

Outstanding reading range on capturing general barcode up to 32" distance

Capable of reading 3-mil high density barcode

More Excellent reading width than most imagers and laser scanners

Ruggedized over-mold design to withstand multiple drops to concrete from 1.8 meter

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

Unsurpassed readability on low contrast, smudged, poorly-printed or damaged barcodes

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

The Cino F790BT cordless linear imaging scanner presents a big leap in its class as the benchmark by combining the cutting-edge FuzzyScan 2.0 imaging technology, unique optical design and Bluetooth® wireless technology. The FuzzyScan F790BT not only has unprecedented performance on reading long distance up to 32" and wide barcode, but aslo compromise the incompatibility on capturing 3 mil high density barcode. The F790BT shines it's outstanding value on superb performance and ultimate freedom of mobility, providing an optimum solution for a wide range of applications from general purpose to industry.

Surpassing reading performance

The F790BT triumphs with outstanding reading performance on virtual real-world barcodes, such as damaged, smudged, poorly-printed, low contrast, high density and on-screen barcodes. The special-designed optical instrument allows it to read up to 32" long distance as well as 3 mil high density barcode.

Superior wireless connectivity

F790BT 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 F790BT with Bluetooth-enabled host devices via SPP or HID service in SPP mode or HID mode.

An elite blend of all-around functionality

The Batch Scanning function allows F790BT to collect more than 20,000 EAN-13 barcode data. This makes F790BT ideal for inventory management application. The Out-of-range scanning feature enables F790BT to continue scanning data even when it loses radio connection. For hand-free application, the Presentation Scanning Auto-sense function can switch the 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	15% 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 32 inches on 20 mil Code 39
Light Source	630nm visible red LED
Scan Rate	Dynamic scanning rate up to 500 scans per second
Reading Direction	Bi-directional (forward and backward)
Pitch/Skew	± 65˚/65˚
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 100 meters in open space when working with smart cradle, line of sight
Supported Profiles	SPP, HID

Supported Symbologies

1D Linear (F790BT)	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 (F798BT)	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	Black

Safety & Regulatory

EMC & Radio:	CE,FCC,BSMI,C-Tick,KC,NCC,VCCI,MIC
Safety [3]	LED Eye Safety IEC62471, Exempt Group
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 LED beam.

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