F780BT HC Series

A High Performance Antimicrobial Bluetooth Linear Scanner for Sterile and Hygiene-sensitive Applications

Disinfectant-ready enclosure incorporated with antimicrobial additives

Comply with JIS Z2801 : 2000 standard

Ruggedized over-mold design to withstand multiple drops to concrete from 2.0 meter

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

Work with Apple iOS and Android devices

Memory storage up to 80,000 EAN-13 scans for batch scanning

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

Up to 34" reading range on general barcodes

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

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

Society is more germ-conscious than ever. It's a trend to use devices incorporated anti-microbial materials for some specific environments to minimize the risk of spreading infectious micro-organisms and other bacteria.

PC Worth has listened and understood our partners' demand for the use of barcode scanner at somewhere infection control is critical. The newly developed CINO antimicrobial F780BT Bluetooth scanner is built with disinfectant-ready housing. They are loaded with features required to perform outstanding reading performance and mobility in hygiene-sensitive environments.

Incorporated antimicrobial additives

The housings of antimicrobial F780BT scanner and cradle are incorporated with silver inorganic antimicrobial agent which will not be worn off during its lifetime. This provides an extra layer of protection against the multiplication and spread of potentially harmful microorganisms such as bacteria and microbes on the scanner plastic enclosure surface.

Disinfectant-Ready enclosures

The antimicrobial F780BT scanner and cradle are designed with disinfectant-ready housing, it allows the plastic to be cleaned or wiped-down with commonly-used cleaning solutions in healthcare environments without harming the housing or the sensitive scanning components inside.

Solution for hygiene-sensitive environments

It can serve a wide range of specific applications where hygiene environment is paramount and high-level safety is vital, such as healthcare, pharmaceutical, cosmetic, food industries, medical laboratories and other sterile environments.

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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 34 inches on 20 mil Code 39
Light Source	630nm visible red LED
Scan Rate	Dynamic scanning rate up to 558 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 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	
Hours of Operation *2	Per full charge: 120 hours	
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
Data Rate	24.0 Mbit/s
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 *Apple iOS HID and Android 3.0 or later HID supported

Supported Symbologies

1D Linear (F780BT-WV)	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 (F788BT-WV)	PDF417, Micro PDF417, Codablock F, Composite (available for F788BT-HC 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
Recommend cleaning solutions	Gentle dish soap water or alcohol solvent

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	Plastic: Healthcare White Over-mold: Light Blue
Antimicrobial Additives	Silver inorganic antimicrobial agent

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
Antimicrobial	JIS Z2801 : 2000

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
	Color : Healthcare White

Charging Cradle	Battery charging : Fast charge User Interface : 1 blue power indicator Color : Healthcare White
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 test is carried out under factory preset test criteria.
3. Don't stare into the LED beam.

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