



## FUZZYSCAN F780BT HC

Antimicrobial 1D Cordless Imager



### A rugged Bluetooth scanner for healthcare and other hygiene-conscious industries

F780BT HC is equipped with a disinfectant-ready housing that is ideal for environments such as hospitals, clinics, laboratories, pharmacies and more. Its robust exterior also grants protection against inadvertent drops. This scanner incorporates Bluetooth technology to provide users with wireless mobility. The superior attributes of F780BT HC make it an excellent choice for hygiene-sensitive applications.

- Disinfectant-ready enclosure with antimicrobial additives
- Compliance with JIS Z2801 : 2000 antimicrobial standard
- Integrated with the latest Bluetooth wireless technology
- Smart cradle offers radio coverage of over 100 meters
- Works with most Android, iOS and Windows mobile devices
- Batch Scanning for simple stocktaking
- Supports PDF417 and Composite Codes
- Clear audio and visual feedback
- Built-in vibrator for tactile confirmations
- Configuration can be done through iCode
- Advanced data formatting with DataWizard Premium
- System security development using DataWizard Premium

### Sanitation-Friendly

#### Inclusion of Antimicrobial Additives

F780BT HC's housing incorporates a silver inorganic antimicrobial agent that will not wear off during its lifetime. This provides an extra layer of protection against the growth of microorganisms on its surface.

#### Disinfectant-Ready Enclosure

The scanner's plastic exterior is also disinfectant-ready, allowing it to be wiped-down with Cino's recommended cleaning solutions (see Specifications below) without harming the enclosure.

#### Ideal for Hygiene-Sensitive Environments

F780BT HC complies with the JIS Z2801:2000 standard and serves a wide range of industries where hygiene is paramount, such as healthcare, pharmaceutical, food, and more.

### Wireless Convenience

#### Movement and Compatibility

Embedded with Bluetooth technology, the F780BT HC provides cordless mobility and the freedom of movement required by many applications. It can also be easily paired with the majority of popular Bluetooth devices, including Windows, iOS and Android phones. Connection can be made under HID or SPP mode.



Hospital



Laboratory



Pharmacy

## The Cradle Advantage

The F780BT HC can be paired with Cino's smart cradle, which is Bluetooth-enabled with a coverage distance of over 100 meters. The latter can serve as an instant plug-and-play cordless solution if your host device lacks Bluetooth capabilities.

Under PICO mode, the smart cradle can support up to 7 scanners at once. This allows you to centralize the data transmission process, gathering multiple connections on a single cradle.

## Practical Features

### "On-the-Spot" Data Transmissions

Under "Online Scanning", F780BT HC sends barcode data to its host device immediately after each scan.

If "Out-of-range scanning" is also enabled, this imager will store up to 5,000 scans of EAN barcodes when it loses radio connection with the host device. Upon reconnection, the imager will automatically send out all stored data.

### Efficient Stocktaking

"Batch Scanning" can be selected for inventory work. Barcode data is kept in the imager and will only be sent, as a batch, to the host device when you activate transmission.

80,000 scans of EAN barcodes can be stored in the imager under this mode. Quantity value and time-stamp may be added to data immediately following capture.

### Data Verification Made Easy

"Validation Scanning" enables the imager to record master data. The latter is then compared to information that is subsequently read. Should they not be a match, the imager will issue warning beeps. This mode facilitates validation tasks in warehouses and factories, such as verifying the uniformity of items in a lot.

### Power that Lasts

F780BT HC incorporates an advanced power management system that maximizes the number of scans per charge. Depending on usage, a full charge may be sufficient for a whole day's work. Battery status indications are available to help you focus on the tasks at hand, and not on the next recharge.

## Scan All Your Needs

### Tackle Stacked Symbologies

F780 HC is designed to scan a vast array of 1D and stacked symbologies, whether displayed on paper, plastic or electronically. Stacked-linear barcodes that can be read by the scanner include PDF417, GS1 Databar Stacked, and composite codes.

### Ready for Challenges

Empowered by the FuzzyScan imaging platform, this scanner is primed to read various challenging and problematic barcodes. For example, poor quality, distorted, dirty, damaged, and overwrapped barcodes, as well as electronic barcodes on dimly-lit displays.

### One Tool for Different Jobs

F780BT HC delivers superior readings on high-density barcodes, in addition to exceptional scan range on regular barcodes. Its high performance and capabilities make it a versatile scanner that is well-suited for diverse applications.



## Unique DataWizard Premium

### Enhanced User Experience

#### Sharp Aimer for Quick Targeting

The scanner's sharp LED beam helps users aim faster and with greater accuracy. F780BT HC also projects a bright red illumination that allows for rapid barcode captures, even under low ambient lighting.

#### Clear Audio, Visual and Tactile Feedbacks

This barcode scanner contains a programmable beeper with adjustable sound volume. Its LED lights provide conspicuous, multi-color indications.

A built-in vibrator offers tactile confirmation of good reads, which is ideal for instances where the scanner's beeps might disturb patients, or when the beeping may be drowned out by loud background noise.

These sensory feedbacks work in concert to promote a greater scanning experience.

#### Built for Lasting Performance

When we designed the F780BT HC, durability and ergonomics were at the top of our priority list. With an over-mold construction, this imager can withstand 2.0-meter drops to concrete. Its handle allows for a natural grip, offering superior comfort throughout the day. Moreover, the imager's elegant outline is sure to complement the decors of professional establishments.

### Value Beyond Measure

#### Simplified Configuration Process

The iCode is a configuration barcode. It can be embedded with more than one command, thereby enabling the simultaneous change of numerous parameters. Instead of configuring their Cino imagers with multiple barcodes, users can achieve the same results with a single iCode.

Simply choose your desired settings in the FuzzyScan PowerTool, and click on the "iCode" button to generate a comprehensive barcode that embodies them all.

#### Customized Functionalities

DataWizard Premium lets you write data or security scripts which can then be used to program Cino scanners for customized tasks. The script language is similar to BASIC and easy to learn for experienced programmers.

This exclusive feature is included in the FuzzyScan PowerTool and offered to Cino clients without extra charge.

#### Advanced Data Formatting

Through data scripts, your scanners can be programmed for intricate formatting duties that would otherwise be assigned to the host device. For example: parsing raw data from driver licenses, adding preambles or postambles, and more.

#### System Security

Set your host system to prompt scanners for a validation key before allowing connection. Develop a security script containing the validation key and install this script on approved scanners. This will prevent random scanners from accessing the host system.

# 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)
Reading Range *1	13 mil (0.33mm) UPC/EAN up to 24" 20 mil (0.5mm) Code 39 up to 34"
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 / Tilt	±65° / ± 65° / ± 55°
Operating Modes	Trigger, Presentation
Configuration Setup	Command barcodes iCode FuzzyScan PowerTool
Data Editing	DataWizard Premium
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	More than 126,000 scans and transmissions
Hours of Operation	Per full charge: 120 hours
Operating Voltage	5VDC ± 10%
Operating Current	Charging: Max.680 mA Standby: Max.85 mA (Scanner with Smart Cradle)

## Communication Characteristics

RF Standard	Bluetooth v4.0
RF Frequency Band	2.402 ~ 2.4830 GHz unlicensed ISM band
Radio Link Modes	PAIR, PICO, SPP, HID
Communication Range	More than 100 meters in open space when working with Smart Cradle, line of sight
Supported Profiles	SPP, HID

## Physical Characteristics

Dimensions	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	Healthcare White
Antimicrobial Additives	Silver inorganic antimicrobial agent

## Supported Symbolologies

1D Linear Codes	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 (formerly RSS) Linear & Linear Stacked
Linear-stacked	PDF417, Micro PDF417, Codablock F, Composite

## User Environment

Drop Specifications	Withstands multiple drops from 2.0m (6.6ft) to concrete
Environmental Sealing	IP42
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% relative 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

## Safety & Regulatory

EMC & Radio	CE, FCC, BSMI, C-Tick, KC, NCC, VCCI, MIC
Safety *2	LED Eye Safety IEC62471, Exempt Group
Environmental	Compliant with RoHS directive
Antimicrobial	JIS Z2801 : 2000

## Accessories

<b>Smart Cradle</b>	
RF Standard:	Bluetooth v4.0
Battery Charging:	Fast charge
User Interfaces:	1 blue link indicator 2-color status indicator Beeper, Paging / Reset button USB HID (USB Keyboard) USB VCOM (USB COM port emulation) Standard RS232
Host Interface:	
<b>Charging Cradle</b>	
Battery Charging:	Fast charge
User Interface:	1 blue power indicator
<b>Interface Cables</b>	RS232 Serial Cable USB Cable
<b>Others</b>	SD112 Bluetooth Smart Dongle 5VDC Power Supply Unit BT2100 Battery Pack (2600mAh) US100 SmartStand US50 Hand-free Stand Universal Holder

1. The Reading Range are measured under Cino's test environmental condition.
2. Don't stare into the LED beam.

