

# F780 HC Series

A High Performance Antimicrobial Bar Code 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

GS1 DataBar, PDF, MicroPDF and  
composite code support

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

Superior motion tolerance for  
rapid and accurate data-capture  
on the move

High speed scanning rate up to  
500 scans per second for snappy  
barcode capture

All-in-one host interface design,  
including USB HID, USB COM and  
RS232

Built-in vibrator for noisy working  
environment



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.

PCW is committed to providing excellent bar code scanner that addresses the needs of those applications. The newly developed CINO antimicrobial F780 scanner not only inherits the outstanding reading performance and reliability of F780, but also protects your customer's safety under complete infection control.

#### [Incorporated antimicrobial additives](#)

The antimicrobial F780 scanner's housing is incorporated with silver inorganic antimicrobial agent, it 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 F780 scanner is 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.

# 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 <sup>*1</sup> | Up to 24 inches on 100% UPC/EAN symbols<br>Up to 34 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                | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation                  |
| Host Interfaces                | RS232 serial<br>USB HID (USB Keyboard)<br>USB COM port emulation<br>Laser emulation and Wand emulation |
| Configuration Setup            | Bar code command<br>Windows utility - FuzzyScan PowerTool                                              |
| Data Editing                   | Condensed DataWizard via bar code command<br>Full-feature DataWizard via FuzzyScan PowerTool           |
| User Interfaces                | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Vibrator                  |

## Supported Symbolologies

|                              |                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1D Linear<br>(F780-WVU)      | Code 39, Code 39 Full ASCII, Code 32, Code 39 Trioptic<br>Code 128, GS1-128, Codabar, Code 11, Code 93<br>Standard & Industrial 2 of 5, Interleaved & Matrix 2 of 5<br>German Postal Code, China Postal Code, IATA<br>UPC/EAN/JAN, UPC/EAN/JAN with Addendum<br>Telepen, MSI/Plessey & UK/Plessey<br>GS1 DataBar (formly RSS) Linear, Linear-stacked |
| Linear-stacked<br>(F788-WVU) | PDF417, Micro PDF417, Codablock, Composite<br>(available for F788-HC only)                                                                                                                                                                                                                                                                           |

## User Environment

|                              |                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------|
| Drop Specifications          | Withstand 50 drops at 6.0ft / 1.8m to concrete<br>Withstand 10 drops at 6.6ft / 2.0m 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% 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)<br>3.85 in. (L) x 2.77 in. (W) x 6.15 in. (D) |
| Weight                  | 157g (cable excluded)                                                                  |
| Color                   | Plastic: Healthcare White<br>Over-mold: Light Blue                                     |
| Antimicrobial Additives | Silver inorganic antimicrobial agent                                                   |
| Input Voltage           | 5VDC ± 10%                                                                             |
| Current                 | Operating : Typical 180 mA @5VDC<br>Standby : Typical 80 mA @5VDC                      |

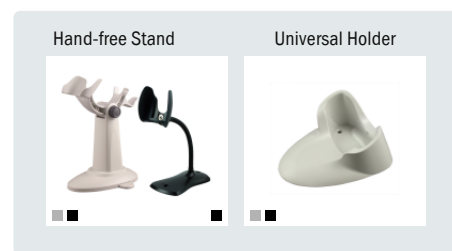
## Safety & Regulatory

|                      |                                       |
|----------------------|---------------------------------------|
| EMC                  | CE, FCC, BSMI, C-Tick, KC, VCCI       |
| Safety <sup>*2</sup> | LED Eye Safety IEC62471, Exempt Group |
| Environmental        | Compliant with RoHS directive         |
| Antimicrobial        | JIS Z2801 : 2000                      |

## Accessories

|        |                                                                        |
|--------|------------------------------------------------------------------------|
| Cables | RS232 Serial Cable<br>USB Cable<br>USB Power Steal Cable               |
| Others | US100 Hand-free SmartStand<br>US50 Hand-Free Stand<br>Universal Holder |

## Accessories



Colors Available : ■ black ■ light gray

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