



## FUZZYSCAN L780 HC 1D Laser Imager for Healthcare



### Premium imager built for the stringent demands of hygiene-sensitive industries

In environments where cross-contamination is a risk, the tools used must be sturdy enough to withstand cleaning procedures. With its disinfectant-ready housing, Cino's L780 HC is perfect for hygiene-conscious establishments, such as hospitals, clinics, laboratories, pharmacies and more. When beeping sounds are unsuitable or inadequate, the scanner's integrated vibrator can offer tactile feedback to confirm good reads.

- Disinfectant-ready enclosure with antimicrobial additives
- Compliance with JIS Z2801 : 2000 antimicrobial standard
- Sharp laser beam for quick and precise targeting
- Supports PDF417 and Composite Codes
- Reads various challenging and problematic barcodes
- Reads electronic barcodes from smartphone screens
- Clear audio and visual feedback
- Built-in vibrator for tactile confirmations
- Withstands drops from 2m to concrete
- Configuration can be done through iCode
- Advanced data formatting with DataWizard Premium
- System security development using DataWizard Premium

### Sanitation-Friendly

#### Inclusion of Antimicrobial Additives

L780 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

L780 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.

#### Scan All Your Needs

##### Tackle Stacked Symbologies

L780 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.



Hospital



Laboratory



Pharmacy

## One Tool for Different Jobs

L780 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.

## Enhanced User Experience

### Sharp Aimer for Quick Targeting

The scanner's sharp laser beam helps users aim faster and with greater accuracy. L780 HC also projects a bright red illumination that allows for rapid barcode captures, even under low ambient lighting. Unlike traditional laser scanners, L780 HC makes use of advanced imaging technology to capture barcodes.

### Clear Audio, Visual and Tactile Feedback

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 features work in concert to promote a greater scanning experience.

### Built for Lasting Performance

When we designed the L780 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 that can generate such 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      | 20% minimum reflective difference                                     |
| Light Source        | 630nm visible red LED with laser aiming                               |
| Minimum Resolution  | 3 mil (Code 39, PCS 0.9)  |
| Reading Range *1    | 13 mil (0.33mm) UPC/EAN up to 24"<br>20 mil (0.5mm) Code 39 up to 34" |
| Scan Rate           | Dynamic scanning rate up to 500 scans per second                      |
| Reading Direction   | Bi-directional (forward and backward)                                 |
| Pitch / Skew / Tilt | ±65° / ± 65° / ± 55°  |
| Host Interfaces     | RS232 serial<br>USB HID (USB Keyboard)<br>USB COM port emulation      |
| Configuration Setup | Command barcodes<br>iCode<br>FuzzyScan PowerTool                      |
| Data Editing        | DataWizard Premium  |

## Physical Characteristics

|                         |  |
|-------------------------|--|
| Dimensions              | 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                   | Healthcare White   |
| User Interfaces         | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Vibrator  |
| Operating Voltage       | 5VDC ± 10%   |
| Operating Current       | Operating : Typical 190 mA @5VDC<br>Standby : Typical 90 mA @5VDC                      |
| Antimicrobial Additives | Silver inorganic antimicrobial agent   |

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

## 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           | CE, FCC, BSMI, RCM, KC, VCCI  |
| Safety *2     | LED Eye Safety IEC62471, Exempt Group<br>Laser Eye Safety IEC60825-1, Class 1 |
| Environmental | Compliant with RoHS directive   |
| Antimicrobial | JIS Z2801 : 2000  |

## Accessories

|                         |  |
|-------------------------|--|
| <b>Interface Cables</b> | RS232 Serial Cable<br>USB Cable<br>USB Power Supply Cable    |
| <b>Others</b>           | US100 SmartStand<br>US50 Hand-free Stand<br>Universal Holder |

