



## FUZZYSCAN A780

### 2D Handheld Imager



### An ideal barcode scanning solution for enterprise applications

Blending with Cino's exclusive FuzzyScan imaging technology, the durable yet elegant design and versatile features, FuzzyScan A780 series rises above conventional imagers by delivering superb scanning performance on reading most linear and 2D barcodes on paper, plastic card, as well as Smartphone display. It provides an ultimate solution for enterprise applications requiring reliable and high throughput barcode scanning, such as retail, logistics, warehousing, manufacturing and healthcare, empowering you to streamline business process while resulting in a rapid return on investment.

- Read most challenging and problematic barcodes
- Superior first-time read
- Omnidirectional snappy scanning
- Read barcodes shown on Smartphone display
- Complete lineup fulfills all scanning needs
- Definite audio and visual user feedbacks
- Optional vibrator for tactile confirmation of good read
- Durable construction withstands 2.0-meter drops
- Support 2D configuration barcode for easy field setup
- DataWizard Premium for complicated data formatting
- Antimicrobial model available for healthcare applications

### Scan All Your Needs

#### Capture Every Barcode First Time

Combined with powerful architecture, advanced optics design, and Cino's exclusive imaging technology, the A780 is purpose built to fulfill all enterprise barcode scanning needs. It is capable of capturing most challenging and problematic barcodes instantly, including dense, poor quality, distorted, dirty, damaged, or overwrapped barcodes, as well as electronic barcode on a dimly lit display.

#### Exclusive Imaging Technology

The latest Cino FuzzyScan imaging technology adopts **Machine Learning Algorithm** along with the endeavoring breakthroughs of core innovation, refreshing barcode scanning performance and snappiness. Powered by FuzzyScan imaging technology, the A780 delivers unrivaled reading performance among competitions.

#### Diverse Data Capture Choice

The **Standard-range** model fulfills most reading needs of high-density and general barcodes with preferable range, well suiting a wide range of applications that normally would take different types of scanners to do so.

To read very high-density and tiny 2D barcodes on electronics manufacturing, jewelry tags, or medical equipment, the **High-density** model is ready for your choice. If general barcode in farther distance needs to be captured, such as barcodes on large or bulky items on a cart, or on a high warehouse shelf, the **Extended-range** model satisfies these applications.



Manufacturing



Warehousing



Distribution Center



Retail

## Easy to Use

### Scan and Go Simplicity

With the omnidirectional scanning capability, there is no need to align with the barcode. Users of all skill levels can start right away with little to no training. This true point-and-shoot simplicity delivers maximum user comfort while increasing the scanning speed.

### Clear Aiming Provides Most Intuitive Scanning

The sharp "**Round Spot**" LED aimer helps to point at barcodes more accurately and quickly. And the super bright red illumination not only enables the snappy barcode capture even in low ambient lighting conditions, but also prevents eye fatigue and improves the environmental comfort.

### Audio and Visual Feedback Improves User Experience

The A780 is equipped with a programmable beeper which provides loud and definite beeps, giving user the positive audio feedback. The multi-color indicators flash to indicate diverse status of the scanner, providing user a clear visual feedback.

### Silent Signaling for Quiet and Noisy Environments

An optional Vibrator provides tactile confirmation of successful read. It's ideal for quiet environment like hospital and library. Especially for healthcare application, the vibration will notify the caregiver that a barcode is captured properly without disturbing patients. It's also useful for noisy workplace where beeps are hard to be heard like manufacturing plants.

### Increase productivity with SmartStand

For some applications, the worker needs to spare both his hands for work. He can place the A780 onto Cino SmartStand for hand-free scanning. By working with Cino SmartStand, A780 is able to switch between hand-free scanning and handheld scanning automatically, maximizing worker's efficiency and productivity.

## Maximum Value

### Easy Configuration and Management Delivers Great Usability

The FuzzyScan PowerTool is an intuitive software tool that can be easily run by first-time user for configuring and managing your scanner. More than that, you can use PowerTool to generate the desired configuration barcode for quickly setting your scanners with a single scan on the field. This maximizes user's productivity, especially for those applications requiring mixed operations.

### Unique DataWizard Premium Brings More Value

Our unique DataWizard Premium is able to handle very complicated data formatting job via the script programming. By working together with your host application, the DataWizard Premium also offers a cost-free security mechanism to protect your business investment.

### Built for Maximum Reliability

With durable over-mold construction and no moving parts design, the A780 survives multiple 2.0-meter drops to concrete. The built-in durability enables A780 to handle the bumps and spills associated with all day. This ensures your long-term investment and minimum downtimes.

# SPECIFICATIONS

## Performance Characteristics

Image Sensor	1280 x 800 Pixels
Print Contrast	18% minimum reflectance difference
Light Source	660nm LED
Minimum Resolution	<b>HD Model</b> 2.4 mil Code 39, 4.5 mil DM <b>SR Model</b> 2.7 mil Code 39, 4.8 mil DM <b>ER Model</b> 3.5 mil Code 39, 7 mil DM
Reading Range	<b>HD Model</b> 13 mil (0.33mm) UPC/EAN up to 9" <b>SR Model</b> 13 mil (0.33mm) UPC/EAN up to 16" <b>ER Model</b> 13 mil (0.33mm) UPC/EAN up to 26"
Roll, Pitch, Skew	Roll: 360°; Pitch: ± 75°; Skew: ± 65°
Configuration Setup	Barcode command Configuration barcode FuzzyScan PowerTool
Data Editing	DataWizard Premium
User Interfaces	USB HID (USB Keyboard) USB VCOM (USB COM port emulation) Standard RS232
Image Capture	BMP

## User Environment

Drop Specifications	Withstand multiple drops at 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

## Supported Symbolologies

1D Linear Codes	Code 39, Code 39 Full ASCII, Code 32, Code 128, GS1-128, Codabar, Code 11, Code 93, GS1 DataBar, Standard & Industrial 2 of 5, Interleaved & Matrix 2 of 5, IATA, UPC/EAN/JAN, UPC/EAN/JAN with Addendum, Telepen, MSI/Plessey & UK/Plessey
2D Codes	PDF417, Micro PDF417, Codablock F, Code 16K, Code 49, Composite Codes, DataMatrix, MaxiCode, QR Code, Aztec, MicroQR
Postal Codes	Australian Post, US Planet, US Postnet, Japan Post

## Safety & Regulatory

EMC	CE, FCC, BSMI, RCM, KC, VCCI
Safety	LED Eye Safety IEC62471, Exempt Group
Environmental	Compliant with RoHS directive

## Physical Characteristics

Dimension	93.5 mm (L) x 71 mm (W) x 160 mm (D) 3.68 in. (L) x 2.79 in. (W) x 6.29 in. (D)
Weight	150g (cable excluded)
Color	Black
User Interfaces	3 LEDs for power, good read and status indications Programmable beeper Optional vibrator
Operating Voltage	5VDC ± 10%
Operating Current	Operating : Typical 395 mA @5VDC Standby : Typical 220 mA @5VDC

## Accessories

Cables	RS232 Serial Cable USB Cable USB Power Steal Cable
Others	5VDC Power Supply Unit US100 Smartstand US50 Hand-free Stand