

FUZZYSCAN A780

2D Handheld Imager



The premium and durable 2D handheld imager

Powered by Cino's exclusive FuzzyScan imaging technology, the A780 is capable of reading most real-world challenging and problematic barcodes. In addition, it features a comprehensive lineup to fulfill various scanning needs. Boasting a durable over-mold construction with enhanced drop-proof protection, versatile functionality, and FuzzyScan DNA, the A780 provides a top-tier performance for demanding enterprise applications.

- Reads various challenging and problematic barcodes
- Superior first-time read rate
- Rapid omni-directional scanning
- Reads electronic barcodes from smartphone screens
- Supports MRZ OCR-A/B reading
- Withstands drops from 2.0m to concrete
- Multiple configurations for choice (SR, HD, XD models)
- XD model reads 2mil ultra-high-density 1D barcodes
- Antimicrobial model available for healthcare applications
- Clear audio and visual feedback
- Optional vibrator for tactile confirmations
- One-step configuration through iCode
- Inherits the powerful FuzzyScan DNA

Scan All Your Needs

The A780 imager can read a vast array of challenging and problematic barcodes, including wrinkled, dirty, or soiled barcodes that are displayed on paper, plastic, and curved surfaces.

Cutting Edge Imaging Technology

Powered by exclusive FuzzyScan Imaging and AI technologies, all Cino scanners deliver unrivaled scanning speed and accuracy across all types of real-world barcodes.

Complete Lineup

The A780 provides three different models to ensure maximum suitability for different scanning needs.

Standard-range model (SR)

The standard-range model is capable of reading most real-world regular barcodes with an excellent reading range, making it ideal for a wide range of general purpose applications.

High-density model (HD)

The high-density model is optimized to read high-density and very small 2D barcodes, commonly found on jewelry, logistics, pharmaceuticals, and electronics labels.

Ultra-high-density model (XD)

The ultra-high-density model is designed to read ultra-high-density codes and Direct Part Marking (DPM) codes for manufacturing and demanding applications.



FUZZYSCAN DNA

Enhanced User Experiences

Designed with sharp aiming and multifaceted notification feedback via visual, audio, as well as tactile indications, the A780 delivers superior usability and a great user experience.

Clear Audio and Visual Feedback

The A780 imager uses audio and visual indicators to indicate its various statuses. The Imager has a loud beeper with an adjustable volume and tone. The LED lights emit conspicuous and programmable multi-color signals to help users clearly identify the current status at a quick glance.

Tactile Feedback Option

Beeping sounds are considered disruptive in certain circumstances. Vibration is available as an option on this imager to provide tactile feedback to users. This is suitable for both quiet and noisy environments.

Built for Lasting Performance

When we designed the A780, 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

FuzzyScan DNA is a collection of unique features that come with every Cino imagers at no additional cost. It delivers exceptional value beyond barcode scanning. Aside from the exclusive FuzzyScan imaging technology, Cino's scanners provide the following distinctive features to elevate user's experience:

DataWizard

DataWizard is a unique feature to perform advanced data formatting and complex data processing.

iCode

The iCode feature is a macro command barcode that allows one-step configuration with a single scan.

Multilingual Edge

Multilingual Edge is a useful feature that enables data output in your desired language.

Smart Scene

Smart Scene offers a choice of several preset configurations for various application scenarios to achieve optimal scanning performance.

Security Plus

Security Plus is a user-defined security mechanism that prevents the access of unauthorized barcode scanners.

FuzzyScan Enabling Solution

FuzzyScan Enabling Solution is a suite of software utilities that enables easy integration, management, and deployment of scanners.

SPECIFICATIONS

Performance Characteristics

Image Sensor	1280 x 800 Pixels
Print Contrast	15% minimum reflectance difference
Light Source	XD warm white LED HD/SR 660nm red LED
Imager Field of View	41.5 °H x 25.9 °V
Minimum Resolution	XD 2.0mil Code 39, 4.0 mil DM HD 2.4mil Code 39, 4.5 mil DM SR 2.7mil Code 39, 4.8 mil DM
Reading Range *1	XD 13 mil (0.33mm) UPC/EAN up to 8.1" HD 13 mil (0.33mm) UPC/EAN up to 14.5" SR 13 mil (0.33mm) UPC/EAN up to 23.6"
Roll, Pitch, Skew	Roll: 360 °; Pitch: ± 75 °; Skew: ± 65 °
Motion Tolerance	Up to 617 cm/s (243 in/s)
Configuration Setup	FuzzyScan Barcode commands FuzzyScan iCode FuzzyScan PowerTool FuzzyScan Serial Command
Data Processing	DataWizard
User Interfaces	3 LEDs for power, good read and status indications Programmable beeper Optional vibration function
Image Capture	BMP or JPEG format

Electrical Characteristics

Operating Voltage	5VDC ± 10%
Operating Current	Operating : Typical 395 mA @5VDC Standby : Typical 220 mA @5VDC

Physical Characteristics

Dimensions	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 *5	Classic Black, Ivory White
Host Interfaces	USB HID (USB Keyboard) USB VCOM (USB COM port emulation) USB OEM POS Standard RS232

1. The reading range is measured under the manufacturing preset test environmental conditions.
2. Codablock F, Code 49, Han Xin Code, and DotCode are available upon request.
3. MICR-E13B and US Currency are available upon request.
4. Don't stare into the LED beam.
5. The XD model is available only in classic black.

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 *2	PDF417, Micro PDF417, Composite Codes, DataMatrix, MaxiCode, QR Code, MicroQR, Aztec, Codablock F, Code 16K, Code 49, Chinese Sensible (Han Xin) Code
Postal Barcodes	Australian Post, US Planet, US POSTNET, Japan Post, Posi LAPA 4 State Code, German Post, British Post, Intelligent Mail, Korean Post, Dutch KIX Post, China Post
OCR *3	OCR A/B, MICR-E13B, US Currency

User Environment

Drop Specifications	Withstands multiple drops from 2m (6.6ft) to concrete
Environmental Sealing	IP52
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	0% to 95% relative humidity, non-condensing
Ambient Light Immunity	0 ~ 106,000 lux
ESD Protection	Functional after 15KV discharge

Safety & Regulatory

EMC	CE, UKCA, FCC, BSMI, RCM, KC, VCCI
Safety *4	LED IEC 62471/EN 62471, Exempt Group
Environmental	Compliant with RoHS 2.0 and REACH

Accessories

Cables	RS232 Serial Cable USB-A Cable USB-C Cable USB Power Cable
Others	US100 SmartStand Universal Holder Power Supply Unit (5VDC, 2A outlet)