

# FUZZYSCAN A680

## 2D Handheld Imager



### The premium yet compact 2D handheld imager

Powered by Cino's exclusive FuzzyScan imaging technology, the A680 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 compact yet durable construction, versatile functionality, and FuzzyScan DNA, the A680 provides a top-tier performance for a vast range of enterprise and general purpose applications.

- Reads various challenging and problematic barcodes
- Superior first pass read rate
- Rapid omni-directional scanning
- Reads electronic barcodes from smartphone screens
- Withstands drops from 1.8m to concrete
- Standard-Range and High-Density models
- Clear audio and visual feedback
- Optional vibrator for tactile confirmations
- One-step configuration through iCode
- Advanced data formatting with DataWizard
- Inherits the powerful FuzzyScan DNA

### Scan All Your Needs

Powered by exclusive FuzzyScan Imaging technology, the A680 imager is capable of reading a vast array of challenging and problematic barcodes. The A680 imager is capable of scanning wrinkled, dirty, or soiled barcodes that are displayed on paper, plastic, metal, digital screens, and curved surfaces.

### Cutting Edge Imaging Technology

Powered by state-of-the-art AI-based machine vision, the exclusive FuzzyScan imaging technology is a performance-driven innovation. Incorporated with an advanced optical design and a powerful hardware platform, all Cino scanners deliver unrivaled scanning speed and accuracy across all types of real-world barcodes.

### A Complete Lineup

The A680 provides two different models to ensure maximum suitability for different scanning needs. Both LED aimer and Laser aimer are also available for choice.

#### Standard-range model (SR & SL)

The standard-range model offers superior reading performance on both regular and problematic real-world barcodes, making it suitable for a wide range of applications.

#### High-density model (HD & HL)

The high-density model is purpose-built to read DPM-like, ultra-high density, and very small 2D barcodes that appear on items such as electronic components, jewelry tags, and medical equipment.



FUZZYSCAN DNA

## Enhanced User Experiences

Designed with sharp aiming and multifaceted notification feedback via visual, audio, as well as tactile indications, the A680 delivers superior usability and a great user experience.

### Clear Audio and Visual Feedback

The A680 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.

### Stylish and Ergonomic

Combining style and ergonomics, this model provides an outstanding user experience on all levels. Elegant in appearance, it will easily blend into any commercial decor. The Imager's sleek handle is ergonomically designed to afford a natural, comfortable grip. Furthermore, its robust enclosure can withstand 1.8-meter falls onto concrete, granting reliable protection from unintentional drops.

## 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	660nm red LED
Imager Field of View	41.5 °H x 25.9 °V
Minimum Resolution	<b>HD/HL</b> 2.4mil Code 39, 4.5 mil DM <b>SR/SL</b> 2.7mil Code 39, 4.8 mil DM
Reading Range *1	<b>HD/HL</b> 13 mil (0.33mm) UPC/EAN up to 14.5" <b>SR/SL</b> 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 vibrate function
Image Capture	BMP

## Electrical Characteristics

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

## Physical Characteristics

Dimensions	97.0 mm (L) x 65.0 mm (W) x 156.0 mm (D) 3.81 in. (L) x 2.55 in. (W) x 6.14 in. (D)
Weight	130g (cable excluded)
Color	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 are measured under Cino's test environmental condition.
2. Codablock F, Code 49, Han Xin Code, and DotCode are available upon request.
3. Don't stare into the LED or laser beam.
4. MICR-E13B and US Currency are available upon request.

## Supported Symbologies

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 *4	OCR A/B, MICR-E13B, US Currency

## User Environment

Drop Specifications	Withstands multiple drops from 1.8m (6.0ft) 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 *3	LED IEC 62471/EN 62471, Exempt Group Laser IEC 60825/EN 60825-1
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)