

FUZZYSCAN FA480 Series

2D Fixed Mount Scanner



Compact 2D fixed mount scanner for general purpose applications

Powered by Cino's exclusive imaging technology, FuzzyScan FA480 is built to deliver unparalleled scanning performance within a small form factor. This fixed mount scanner not only captures most barcodes in a flash, it can also read a great number of challenging and problematic barcodes, such as distorted or damaged barcode labels, electronic coupons on screens with poor lighting. Thanks to a compact and durable design, the FA480 is ideal for stand-alone use, as well as embedded applications, such as ATMs, kiosks, parcel lockers, or other self-service terminals.

- Compact and durable design with IP54 sealing
- Reads challenging and problematic barcodes
- Choice of front-view or side-view scanning direction
- Intelli Button™ helps with scanner positioning
- Smart Scenes™ for quick adaption to diverse applications
- Multilingual output support
- Single scan setup with iCode
- Advanced data processing with DataWizard Premium
- Security Plus offers free security to host applications

Scan All Your Needs

Powered by Cino's exclusive imaging technology, the FA480 delivers unparalleled reading performance on virtually any barcode in any condition, providing an excellent solution for enterprises that require reliable and high throughput barcode scanning.

Excellent reading performance

The FA480 delivers exceptional reading performance on a wide range of barcodes. It also captures a great number of challenging and problematic barcodes, such as dense, soiled, distorted, damaged, or overwrapped barcode labels, as well as electronic coupons displayed on screens with poor lighting.

Complete lineup for diverse needs

The **Standard-Range** model is designed to fulfill the vast majority of scanning requirements. It offers swift readings on both regular and high-density barcodes, making this model an excellent choice for general purpose applications.

To capture very high-density 2D barcodes, or DPM codes that appear on items such as electronic components, or medical equipment, Cino offers a specialized **High-Density** model.



IP54 Sealing



Useful Intelli Button™



Smart Scenes™

Ease of Integration

With its compact form factor, as well as two scan directions and three host interface cables to choose from, the FA480 is designed for ease of integration and offers a high level of adaptability.

Compact and durable

The FA480's compact size is perfect for applications with space constraints. Whether used as a stand-alone device or embedded in a terminal, its small footprint will allow for an easy fit. Its over-molded shell offers IP54-rated protection and withstands multiple drops to concrete from a height of 1.5m.

Different scanning directions

Users can select either a front-view or side-view scanning direction depending on integration needs. The side-view scanning direction is particularly suited to space-limited application such as blood analyzers.

Intelli Button™ for optimal installation

The FA480 is equipped with an Intelli Button™, which not only serves as a physical trigger for manual programming, but can also work as a switch to activate the test mode, allowing users to find the most optimal position for installation.

A choice of host interface cables

To accommodate host connection requirements, we offer a choice of interface cables: RS232, USB, or Universal. The Universal model provides great adaptability by supporting external triggers, plus OK and NG signal outputs to fulfill more advanced requirements.

Useful user-defined serial trigger

This fixed mount scanner supports user-defined serial trigger commands. It can therefore adopt the command of other scanner that FA480 replaced, and minimizes the amount of integration work.

Smart Scenes™ for rapid adaptation

The FA480 offers a variety of useful scene options that are optimized for specific application scenarios. They are factory fine-tuned and pre-programmed to automatically give the best setting for each scene. It just likes the digital camera scene modes. This feature enables users to achieve the best scanning results for selected applications with minimal efforts.

A Set of Features Bring Maximum Value

The FA480 inherits the advantageous features of FuzzyScan Family, presenting enhanced usability and exceptional added-value.

Advanced imaging control

If applicable, users can control more advanced imaging parameters, such as exposure time and digital gain, allowing you to optimize the scanner's setting in accordance with specific application requirements.



Multilingual Output



DataWizard Premium

Multilingual output, no more language barriers

Cino 2D scanners can be configured to output almost all languages, including Arabic, German, Greek, Russian, and Turkish, etc. They can also transmit Asian languages such as simplified Chinese, traditional Chinese, Japanese and Korean. This feature enables users around the world to use their own languages, removing linguistic barriers and expanding business horizons.

iCode, single scan setup

The iCode is a macro barcode command designed to simplify and accelerate your setup process. Instead of configuring your scanners with multiple barcodes, users can achieve identical results with a single iCode. It lowers risk of misconfiguration, expedites field deployments and reduces field service expenses. The iCode will accelerate your workflow and increase your efficiency.

DataWizard Premium, powerful data processing

DataWizard Premium is a unique feature designed for FuzzyScan barcode scanners. It allows them to execute advanced data formatting and complex data processing tasks, fulfilling a wide range of requirements. This also reduces the need for costly or time-consuming changes to your host application. DataWizard Premium brings exceptional flexibility and value that boost your productivity.

Security Plus, cost-free business protection

Security Plus guards your host application by restricting access to authorized Cino scanners only. This powerful safety mechanism blocks connection attempts by unrecognized scanners, thereby preventing unsanctioned use. Security Plus delivers peace of mind by offering a reliable security solution that protects businesses at no extra cost.

SPECIFICATIONS

Performance Characteristics

Image Sensor	1280 x 800 Pixels
Print Contrast	15% minimum reflective difference
Light Source	Red or warm white LED
Imager Field of View	FA480-SR 41.5°H x 25.9°V FA480-HD 41.5°H x 25.9°V FA480-UW 75.6°H x 50.9°V
Min. Resolution	FA480-SR 2.7mil Code 39 4.8mil DM/QR FA480-HD 2.4mil Code 39 4.5mil DM/QR FA480-UW 4.0mil Code 39 7.0mil DM/QR
Reading Range *1	FA480-SR 13mil (0.33mm) UPC/EAN up to 23.2" FA480-HD 13mil (0.33mm) UPC/EAN up to 16.5" FA480-UW 13mil (0.33mm) UPC/EAN up to 12.1"
Roll, Pitch, Skew	Roll: 360°; Pitch: ± 75°; Skew: ± 65°
Motion Tolerance	FA480-SR Steadily read over 153 cm/s, with max. speed up to 617 cm/s (243 in/s) FA480-HD Steadily read over 153 cm/s, with max. speed up to 617 cm/s (243 in/s) FA480-UW Steadily read over 460 cm/s, with max. speed up to 920 cm/s (362 in/s)
Configuration Setup	FuzzyScan Barcode commands FuzzyScan iCode FuzzyScan PowerTool
Host Interfaces	USB HID (USB Keyboard) USB VCOM (USB COM port emulation) Standard RS232 serial
Data Processing	DataWizard Premium
Image Capture	BMP format

Physical & Electrical Characteristics

Dimensions	47.6 mm (L) x 40.6 mm (W) x 25.6 mm (H) 1.87 in. (L) x 1.60 in. (W) x 1.01 in. (H)
Weight	101g
Scanning Directions	Choice of front-view or side-view scanning direction
Connector	FA480-xx-00x 9-pin D-sub female FA480-xx-11x 4-pin USB Type A FA480-xx-98x 15-pin D-sub HD female
Input Voltage	5VDC ± 10%
Current	Operating: Typical 360 mA at 5VDC Idle: Typical 220 mA at 5VDC

Decode Capabilities

1D Linear Codes	Code 39, Code 39 Full ASCII, Code 32, Code 128, GS1-128, Codabar, Code 11, Code 93, Standard & Industrial 2 of 5, Interleaved & Matrix 2 of 5, IATA, UPC/EAN/JAN, UPC/EAN/JAN with Addendum, Telepen, MSI/Plessey & UK/Plessey, GS1 DataBar, Linear & Linear Stacked
2D Codes	PDF417, Micro PDF417, Codablock F, Code 16K, Code 49, Composite Codes, DataMatrix, MaxiCode, QR Code, MicroQR, Aztec
Postal Barcodes	Australian Post, US Planet, US Postnet, Japan Post, Posi LAPA 4 State Code

User Environment

Drop Specifications	Withstands drops from 1.5m (5ft) to concrete
Environmental Sealing	IP54
Operating Temperature	-30°C to 60°C (-22°F to 140°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

Safety & Regulatory

EMC	CE, FCC, BSMI, VCCI, KC
Safety *2	LED Eye Safety IEC62471, Exempt Group
Environmental	Compliant with RoHS directive

Accessories

Cables	USB Cable Converter RS232 Cable Converter
Others	5VDC Power Supply Unit

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

