

FM480 Series

A Durable, High Performance Fixed Mount Scanner
for General Purpose and Industrial Applications

Durable overmold construction
and IP54 design

Ultra-compact and easy
mounting design for flexible
integration

Choice of front-view or side-view
model for diverse application
demands

Rich indication and user interface
for intuitive operation

Support both external trigger and
serial trigger

Additional OK and NG output
signals for precise reading control

Useful test mode for quick and
optimal installation

Outstanding reading capability
on 3 mil barcode with more than
3" depth of field

Up to 34" reading range on
general barcodes

High speed scanning rate up to
500 scans per second for snappy
barcode capture

Unsurpassed readability on low
contrast, soiled, poorly-printed
or damaged barcodes

Supports GS1 DataBar, PDF,
MicroPDF and composite code



Integrated with the innovative FuzzyScan 3.0 Imaging Technology and durable ultra-compact design, the FM480 series Fixed Mount Scanner from Cino impresses the user with outstanding scanning performance and industrial level dependability. This cost-effective FM480 creates the best value to boost your productivity for industrial and general purpose applications.

Ultra-compact yet durable design

Thanks to the ultra-compact, robust overmold and IP54 rating construction, the FM480 is not only ideal for embedded scanning solutions such as kiosks and lottery terminals, but also perfect for industrial applications such as conveyer line scanning and test tube verification. The choice of front-view or side-view model and the design of industrial level M3 mounting holes make F480 easy to be mounted anywhere and integrated with any device.

Rich user interface and useful test mode

Equipped with 3 visible LED indicators and audible beeper, FM480 provides intuitive indication for users to monitor the reading status. The useful test mode allows users to identify the optimal reading position with ease.

Outstanding reading performance

The FM480 provides superb performance on reading damaged, smudged, poorly-printed and low contrast barcode labels that are commonly found in the real world quickly and accurately.

Specifications

Performance Characteristics	
Optical System	High performance Linear Imaging Engine
Print Contrast	20% minimum reflective difference
Minimum Resolution	Typical 3 mil (Code 39, PCS 0.9)
Working Distance *1	Up to 24 inches on 100% UPC/EAN symbols Up to 34 inches on 20 mil Code 39
Light Source	630nm visible red LED
Scan Rate	Dynamic scanning rate up to 500 scans per second
Reading Direction	Bi-directional (forward and backward)
Pitch/Skew/Tilt	± 65° / 65° / 55°
Operating Modes	Trigger, Alternative, Level, Force, Presentation
Host Interfaces	RS232 serial USB HID (USB Keyboard) USB COM port emulation
User Interfaces	3 LEDs for power, Status, OK/NG indications Test button Programmable beeper
Configuration Setup	Bar code command, Serial command Windows utility - FuzzyScan PowerTool
Data Editing	Condensed DataWizard via bar code command Full-feature DataWizard via FuzzyScan PowerTool

Supported Symbolologies	
1D Linear (FM480)	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 (formly RSS) Linear, Linear-stacked
Linear-stacked (FM488)	PDF417, Micro PDF417, Codablock F, Composite

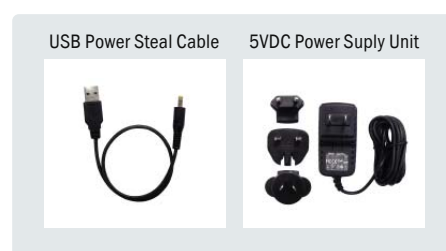
User Environment	
Drop Specifications	Withstand 1.5m/5ft. drop to concrete
Environmental Sealing	IP54
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5% to 95% related humidity, non-condensing
Ambient Light Immunity	0 ~ 100,000 lux
ESD Protection	Functional after 15kV discharge

Physical & Electrical Characteristics	
Dimension	47.6 mm (L) x 40.6 mm (W) x 23.1 mm (D) 1.87 in. (L) x 1.60 in. (W) x 0.91 in. (D)
Weight	120g (RS232 and Universal version) 95g (USB version)
Scan Window	Choice of front-view or side-view model
Connector	9-pin D-sub female (RS232 version) USB 4-pin Type A (USB version) 15-pin D-sub HD female (Universal version)
Mounting	2 screw holes (M3 x 4mm in depth)
Input Voltage	5VDC ± 10%
Current	Operating : Typical 165 mA @5VDC Standby : Typical 70 mA @5VDC

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

Accessories	
Cables	USB Power Steal Cable
Others	5VDC Power Supply Unit

Accessories



1. The reading distances are measured under Cino's test environmental condition.
2. Class 1M LED product. Do not view directly with optical instruments.

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