

FM480 系列

FM480是一款结合了高度耐用性和卓越读取性能的固定式条码扫描器，适用于通用行业和工业环境

耐用的塑料包覆结构和达到IP54工业等级的设计

小巧外观和易于安装的设计使它灵活地集成到各种应用环境中

提供前视窗或侧视窗的选择，满足不同应用的需求

丰富的使用者反馈和人机接口使得操作更加直观简易

同时支持外部触发扳机和串口触发

提供额外的OK和NG输出信号实现精准的读取控制

方便好用的测试模式有助于实现快速和最佳安装

卓越的读取性能，对3mil条码的读取距离超过7cm

高达500次/秒的扫描速度能够瞬间快速捕捉条码

对低对比度、污损、印刷质量较差或受损的条码均有优越的读取性能

支持GS1 DataBar，PDF417，MicroPDF和composite条码的读取



Cino FM480固定式条码扫描器系列产品完美结合了创新性的FuzzyScan 3.0影像技术和耐用、紧凑的工业设计，以其卓越的扫描性能和工业级的可靠性给客户留下了深刻的印象。这款高性价比的FM480固定式条码扫描器在工业和通用行业的应用中，能够大大提升生产力和创造出更高的附加值，是他们的最佳选择。

小巧外观而又耐用的工业设计

得益于紧凑、塑料包覆和达到IP54工业等级的结构，FM480不但是自动售卖终端和彩票销售终端等嵌入式扫描解决方案的理想选择，同时也是输送带扫描和试管核查等工业级应用的最佳选择。FM480具有前视窗或侧视窗供选择。工业级M3固定孔的设计，使其能够非常便利地被安装在任何需要的地方和整合到任何设备中。

丰富的用户接口和简便易用的测试模式

FM480配备了三个可视的LED指示灯和高性能的蜂鸣器，为用户检测扫描状态提供了直观的指示。简便易用的测试模式让用户能够轻而易举的确定最佳读取位置。

卓越的读取性能

FM480能够快速、正确地读取已损坏、污损、打印质量较差以及低对比度条码等这类在真实世界普遍存在的条码标签。

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 31.5 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, UCC/EAN-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 (formerly RSS) Linear
Linear-stacked (FM488)	PDF417, Micro PDF417, Codablock F GS1 Data Bar Linear-stacked and Composite

User Environment

Drop Specifications	Withstand 1.2m/4ft. 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	23.1 mm (L) x 40.6 mm (W) x 47.6 mm (D) 0.91 in. (L) x 1.60 in. (W) x 1.87 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

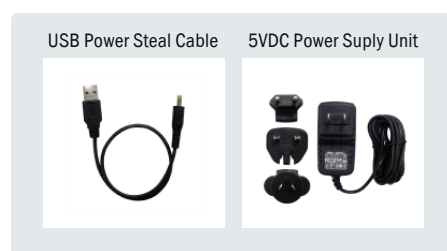
Safety & Regulatory

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.