



FA470 Series

A future-proof area-imaging fixed mount scanner for boosting enterprise's productivity

Powered by FuzzyScan 3.0 imaging technology, IP54 ultra-compact yet durable over-molded construction, the CINO FA470 series fixed mount scanner comes with industry-leading scanning performance, functionality and reliability. The FA470 area-imaging fixed mount scanner delivers a future-proof and superior cost-performance solution to help enterprises increasing their efficiency and productivity.

cino[®]

Ultra-compact and easy mounting
design for flexible integration

IP54 durable over-molded construction

Useful test mode helps to identify the
optimal mounting position easily

Flexible user-defined serial trigger
command supported

Support RS232, USB HID, USB COM
host interfaces

Durable for harsh environment

Thanks to IP54 over-molded design,
FA470 can protect internal
components from dust and water
ingression. It also can withstand
multiple drops to concrete from 1.2 m
in any orientation. So the high
reliability is guaranteed.

Size does matter

Size of a product plays a very
important role in system integration
and space-constrained environment.
With the ultra compact design of
FA470 series, space allocation will not
be an issue to worry about.

Status at a glance
FA470 series is equipped with multiple
and intuitive status LED indicators and
loud beeper. The operation status is
clear and crystal at a glance.

Read most of popular 1D, 2D barcodes
and postal codes

Aggressive decoding ability on reading
low contrast, soiled, poorly-printed or
damaged barcodes

Digital image capture capability

High-density and standard range
models are offered to satisfy various data
capture needs

Choice of Front-view or side-view
version



Intuitive User Interface



Ultra Compact Design



Robust Construction

User-defined serial trigger for easy replacement

If you want to phase out your current expensive fixed-mount scanner and replace them with FA470, the useful user-defined serial trigger function provides you a flexible solution without impacting your existing application programs. You can simulate the other brands' serial trigger command through the setting of FuzzyScan PowerTool, then activate the scanning by using the simulated serial trigger command.

Useful operation modes

The FA470 provides five operations modes, including trigger, alternative, level, presentation and force modes. Both the presentation and force modes support triggerless operation, you don't need to use either external trigger or serial trigger to activate the scanning. You can choose the specific operation mode to meet the requirement of your application.

Practical test mode

Once you determined desired location to install the scanner, the thoughtful test mode helps system integrator to identify the most optimal mounting position easily and quickly.

Various interface options

Both RS232 and USB host interfaces are available in different models, including USB model, RS232 model and universal model. The universal model supports both USB and RS232 interfaces, allow system integrators to customize their specific applications.



RS232 and USB I/F Options



Five Operation Modes



Value-added Universal Mode



Test Mode

Multiple triggering methods

In addition to the built-in physical trigger button, the models which support RS232 and USB COM port emulation interfaces can be triggered by sending serial command. Furthermore, the universal model also supports external trigger. The FA470 provides an ideal solution for machine-controlled applications.

Universal model brings added value

The universal model offers more useful functionality. It not only supports RS232, USB HID and USB COM port emulation host interfaces, but also provides external trigger function. Moreover, it provides OK/NG signal output for more precise reading control.

All you can scan

Built with the advanced FuzzyScan 3.0 imaging technology, FA470 series is capable of reading most of major 1D, 2D symbologies and postal codes omnidirectionally. Besides, it also supports digital image capture which may be used for vision-related applications.

Superior reading performance
Base on the exceptional decoding capability, FA470 series is capable of reading low contrast, poorly-printed, or soiled, damaged barcodes. This makes the whole scanning process more efficiently and extra handling cost will be minimized.



Diverse Triggering



Series Trigger Simulation



FuzzyScan 3.0 Technology



No Worry for Poor Barcodes

Application Examples

FA470 series is the perfect solution for embedded and stand-alone applications.

Stand-alone Applications

MES (Manufacturing Execution System)
WIP (Work in Process)
Physical Distribution
Warehousing



Capable of reading barcode on LCD display

Beside hard-copy printed barcode, FA470 series can decode barcodes on LCD display such as notebook, PAD or smart phone. This makes FA470 ideal for various barcode scanning applications.

High density and standard range models are available

FA470 series offers High Density and Standard Range models to fulfill various applications. So, no matter what the resolution of the barcode or the reading range is, the FA470 series can satisfy your different demands.

Two choices of scan orientation

FA470 Series offers front-view and side-view versions for satisfying various scanning and mechanical design requirements. The side-view version is an ideal solution for the environment where space is constrained.

Embedded Applications

Kiosk
Vending Machine
Price Checker
Access control
Gaming/Lottery Machine
Ticket Reader
Medical Laboratory



Front-view and Side-view



HD and SR Models



Read Barcode on LCD



SPECIFICATIONS

Performance Characteristics		Supported Symbolologies		Safety & Regulatory	
Scan Pattern	Area Image	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, ITF, UPC/EAN/JAN, UPC/EAN/JAN with Addendum, Teletext, MSI/Plessey & UK/Plessey, GS1 DataBar, Linear & Linear Stacked	EMC	CE, FCC, BSMI, VCCI, KC
Print Contrast	20% minimum reflectance difference			Safety *2	LED Eye Safety IEC62471, Exempt Group
Light Source	Aiming Pattern : 630nm LED Illumination : 630nm LED			Environmental	Compliant with RoHS directive
Min. Resolution	SR Model 4 mil Code 39 7 mil DM HD Model 3 mil Code 39 5 mil DM	2D Codes	PDF417, Micro PDF417, Codablock F, Code 16K, Code 49, Composite Codes, DataMatrix, MaxiCode, QR Code, Aztec, MicroQR	Accessories	USB Power Steal Cable
Roll, Pitch, Skew	Roll: 360° ; Pitch: ± 75° ; Skew: ± 65°	Postal Codes	Australian Post, US Planet, US Postnet, Japan Post Dutch KIX code, Intelligent Mail, British Post	Cables	5VDC Power Supply Unit
Motion Tolerance	Up to 25 inch/63.5 cm per second	Physical Characteristics		1. The reading range is measured under Cino's test environmental condition. 2. Class 1M LED product. Do not view directly with optical instruments.	
Reading Range *1	SR Model 5 mil (0.13mm) C39 13 mil (0.33mm) UPC/EAN 10 mil (0.25mm) DM HD Model 3 mil (0.07mm) C39 5 mil (0.13mm) C39 13 mil (0.33mm) UPC/EAN 5 mil (0.13mm) DM 10 mil (0.25mm) QR	Dimension	49.4 mm (L) x 40.6 mm (W) x 23.1 mm (H)	1. The reading range is measured under Cino's test environmental condition. 2. Class 1M LED product. Do not view directly with optical instruments.	
		Weight	101g	1. The reading range is measured under Cino's test environmental condition. 2. Class 1M LED product. Do not view directly with optical instruments.	
		Scan Window	Choice of front-view or side-view model	1. The reading range is measured under Cino's test environmental condition. 2. Class 1M LED product. Do not view directly with optical instruments.	
		Connector	9-pin D-sub female (RS232 version) USB 4-pin type A (USB version) 15-pin D-sub HD female (Universal version)	1. The reading range is measured under Cino's test environmental condition. 2. Class 1M LED product. Do not view directly with optical instruments.	
		Input Voltage	5VDC ± 10%	1. The reading range is measured under Cino's test environmental condition. 2. Class 1M LED product. Do not view directly with optical instruments.	
		Current	Operating: Typical 285 mA @5VDC Standby : Typical 160 mA @5VDC	1. The reading range is measured under Cino's test environmental condition. 2. Class 1M LED product. Do not view directly with optical instruments.	
User Environment		Drop Specifications		Part No.: YM AUG7030000R0 ■ Specifications are subject to change without notice. ■ Cino is a registered trademark of PC Worth Int'l Co., Ltd. All other trademarks and service marks are proprietary to their respective companies. ■ The products shown in this catalog may be changed without prior notice. Any reproduction, duplication or other use of the contents of this catalog, in part or in full, without the prior permission of PC Worth Int'l Co., Ltd. is strictly forbidden. ■ PC Worth Int'l Co., Ltd. does not accept responsibility for problems concerning infringements of third parties' rights or damages resulting from the use of the contents of this catalog.	
User Interfaces	RS232 serial USB HID (USB Keyboard) USB COM port emulation	Environmental Sealing	IP54	Part No.: YM AUG7030000R0 ■ Specifications are subject to change without notice. ■ Cino is a registered trademark of PC Worth Int'l Co., Ltd. All other trademarks and service marks are proprietary to their respective companies. ■ The products shown in this catalog may be changed without prior notice. Any reproduction, duplication or other use of the contents of this catalog, in part or in full, without the prior permission of PC Worth Int'l Co., Ltd. is strictly forbidden. ■ PC Worth Int'l Co., Ltd. does not accept responsibility for problems concerning infringements of third parties' rights or damages resulting from the use of the contents of this catalog. <th data-kind="ghost"></th>	
Configuration Setup	Barcode command, Serial command Windows utility - FuzzyScan PowerTool	Operating Temperature	-10 °C to 50 °C (14 °F to 122 °F)	Part No.: YM AUG7030000R0 ■ Specifications are subject to change without notice. ■ Cino is a registered trademark of PC Worth Int'l Co., Ltd. All other trademarks and service marks are proprietary to their respective companies. ■ The products shown in this catalog may be changed without prior notice. Any reproduction, duplication or other use of the contents of this catalog, in part or in full, without the prior permission of PC Worth Int'l Co., Ltd. is strictly forbidden. ■ PC Worth Int'l Co., Ltd. does not accept responsibility for problems concerning infringements of third parties' rights or damages resulting from the use of the contents of this catalog. <th data-kind="ghost"></th>	
Data Editing	Condensed DataWizard via bar code command Full-feature DataWizard via FuzzyScan PowerTool DataWizard Premium via FuzzyScan PowerTool	Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)	Part No.: YM AUG7030000R0 ■ Specifications are subject to change without notice. ■ Cino is a registered trademark of PC Worth Int'l Co., Ltd. All other trademarks and service marks are proprietary to their respective companies. ■ The products shown in this catalog may be changed without prior notice. Any reproduction, duplication or other use of the contents of this catalog, in part or in full, without the prior permission of PC Worth Int'l Co., Ltd. is strictly forbidden. ■ PC Worth Int'l Co., Ltd. does not accept responsibility for problems concerning infringements of third parties' rights or damages resulting from the use of the contents of this catalog. <th data-kind="ghost"></th>	
Image Capture	Graphic Format : BMP, JPEG, TIFF, PNG	Humidity	5% to 95% related humidity, non-condensing	Part No.: YM AUG7030000R0 ■ Specifications are subject to change without notice. ■ Cino is a registered trademark of PC Worth Int'l Co., Ltd. All other trademarks and service marks are proprietary to their respective companies. ■ The products shown in this catalog may be changed without prior notice. Any reproduction, duplication or other use of the contents of this catalog, in part or in full, without the prior permission of PC Worth Int'l Co., Ltd. is strictly forbidden. ■ PC Worth Int'l Co., Ltd. does not accept responsibility for problems concerning infringements of third parties' rights or damages resulting from the use of the contents of this catalog. <th data-kind="ghost"></th>	
		Ambient Light Immunity	0 ~ 100,000 lux	Part No.: YM AUG7030000R0 ■ Specifications are subject to change without notice. ■ Cino is a registered trademark of PC Worth Int'l Co., Ltd. All other trademarks and service marks are proprietary to their respective companies. ■ The products shown in this catalog may be changed without prior notice. Any reproduction, duplication or other use of the contents of this catalog, in part or in full, without the prior permission of PC Worth Int'l Co., Ltd. is strictly forbidden. ■ PC Worth Int'l Co., Ltd. does not accept responsibility for problems concerning infringements of third parties' rights or damages resulting from the use of the contents of this catalog. <th data-kind="ghost"></th>	
		ESD Protection	Functional after 15kV discharge	Part No.: YM AUG7030000R0 ■ Specifications are subject to change without notice. ■ Cino is a registered trademark of PC Worth Int'l Co., Ltd. All other trademarks and service marks are proprietary to their respective companies. ■ The products shown in this catalog may be changed without prior notice. Any reproduction, duplication or other use of the contents of this catalog, in part or in full, without the prior permission of PC Worth Int'l Co., Ltd. is strictly forbidden. ■ PC Worth Int'l Co., Ltd. does not accept responsibility for problems concerning infringements of third parties' rights or damages resulting from the use of the contents of this catalog. <th data-kind="ghost"></th>	