YidaScan

FM300

2D BARCODE SCANNER

1D/2D Scanning

Solid Quality

Multiple Interface

Application Scenarios:

Access Control System, Self-service Kiosk

(1).FM300 Specification:

Performance	Image Sensor		640*480 CMOS
	Illumination		White LED
	Symbologies	2D	(PDF417)、(QR Code)、(Micro QR)、(Data Matrix)、(Hanxi code)
		1D	(Codabar)、(Code 39)、(Code 32)、(Industrial 2 of 5)、(Interleaved 2 of 5)、(Standard 2 of 5)、(Matrix 2 of 5)、(Code 93)、(Code 11)、(Code 128)、(UPC-A)、(UPC-E)、(EAN/JAN-8)、(EAN/JAN-13)、(GS1 DataBar(RSS14)
	Resolution*		≥5mil
	Typical Decode Range*	EAN-13 (13mil)	0mm~70mm（barcode size：31mm*7mm）
		PDF417 (6mil)	0mm~25mm（barcode size：14mm*7mm）
		Code39 (6.6mil)	0mm~25mm（barcode size：34mm*10mm）
		Data Matrix (10mil)	0mm~15mm（barcode size：5mm*5mm）
		QR Code (15mil)	0mm~60mm（barcode size：10mm*10mm）
	Min Print Contract*		≥20%
	Scan Angle**		Skew±70°，Pitch±70°，Roll 360°
	FOV		Diagonal 52.8°，Horizontal 39°，Vertical 29°
Electronic	Interface		USB、RS232 、RS485 、Wiegand
	Dimension(mm)		76(W)×66(D)×64(H)(Max)
	Net Weight Packing Weight		158g 330g
	Operating Voltage		4.8 ~ 20 VDC
	Power		1000mW(Typical)
	Current@5 VDC	Operating	200mA(RMS Typical)，300mA(RMS Max)
		Standby	150mA
Environmental	Operating Temperature		0℃~+60℃
	Storage Temperature		-40℃~+70℃
	Operating Humidity		5%~95%（Non-Condensing）
	Embient Light		0~100,000LUX

Accessories	Cable	USB	USB Cable
		RS-232	RS232 Cable
		TTL	TTL Cable
		RS-485	RS485 Cable
		WG	Wiegand Cable

* Test conditions: ambient temperature =23℃; Ambient illumination =300 LUX incandescent lamp; The paper code shall use the test sample code formulated by our company.

** Test conditions: Test distance = (minimum depth of field + maximum depth of field) /2; Ambient temperature =23℃; Ambient illumination =300 LUX incandescent lamp.

(2).FM300 Dimension(:mm)

Dimension
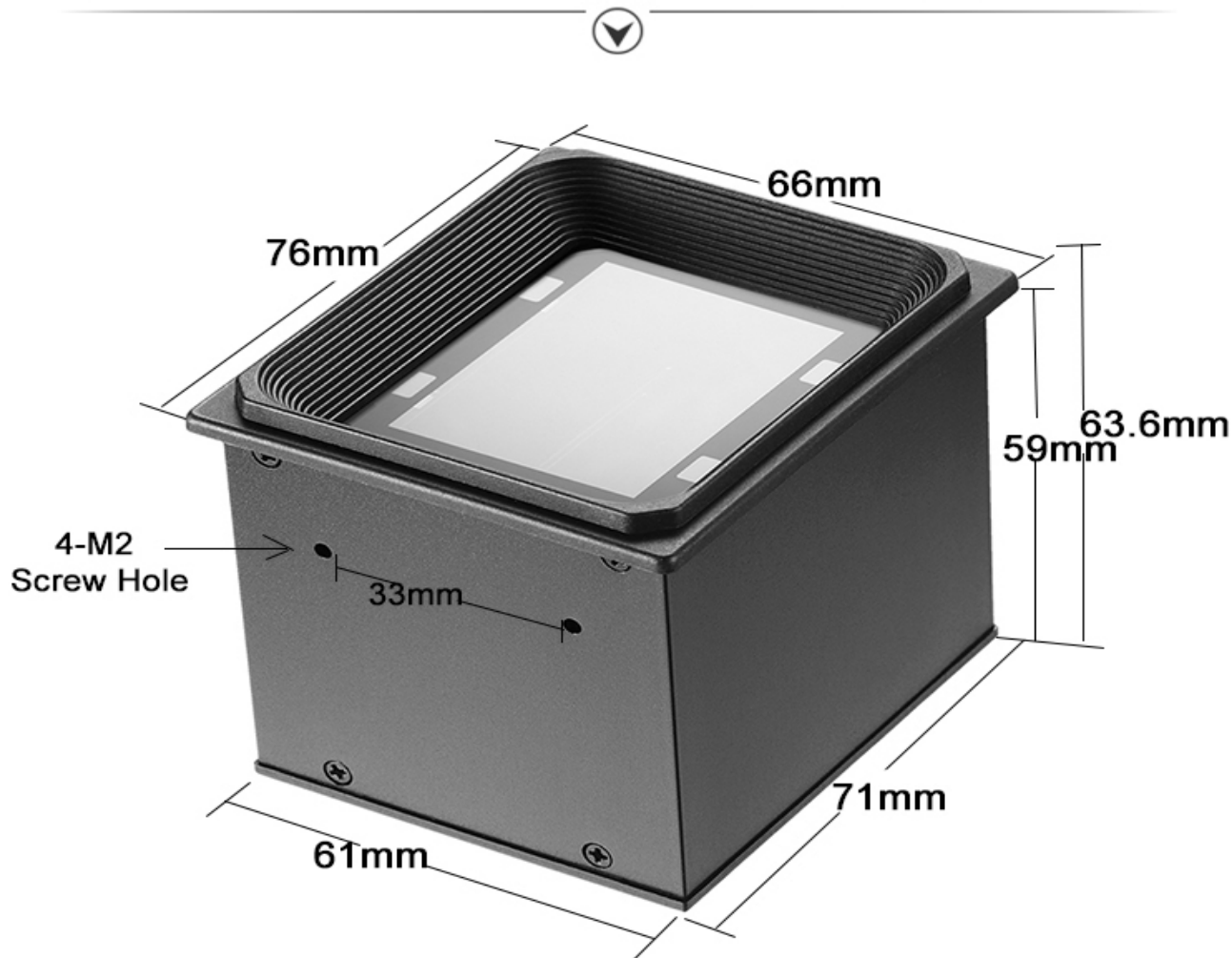
The cover size is:76mm(L)*66mm(W)*5mm(H)

(3).External Design

Note: Optical analysis of the housing design ensures optimum scanning or imaging performance.

Design the engine housing so that the aiming and lighting systems do not reflect internally. Reflections from windows or shells can cause problems. For special window tilt angles, these reflections bounce from the top or bottom of the housing and reach the engine. Do not place bright objects around the engine to prevent the tilted window from being reflected into the engine's field of view and appearing in the captured image. Consider using a black matte material inside the bezel or housing.

3.1 Window Positioning

The window is a transparent medium mounted in front of the FM300 scanner that separates the inside and outside of the product and preserves the light path for the scanner to read the barcode. The window should be placed so that the illumination beam and aim beam are ejaculed as far as possible and to prevent reflections from entering the engine. If the lighting beam is reflected into the engine, the engine's readability performance is reduced.
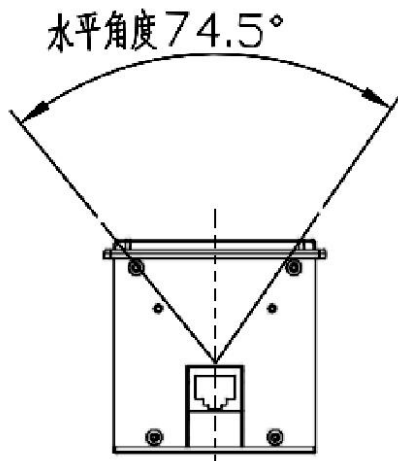
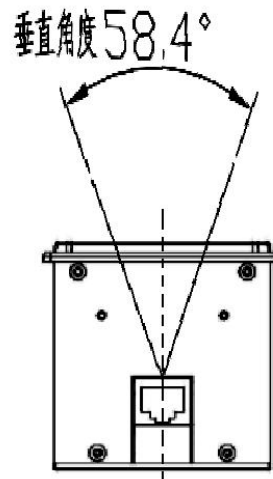The window should be installed as close as possible to the front of the FM300, and a-0mm.
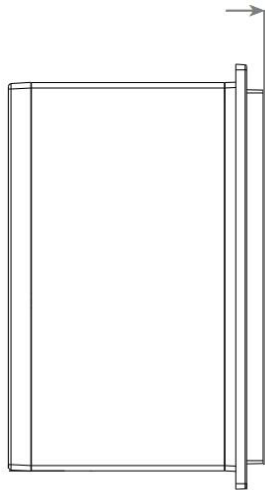
3.2 Window Size

The window must not block the field of view and should be sized to accommodate the aiming and illumination envelopes shown below.

(1).Horizontal: (2).Vertical:

水平角度74.5°   垂直角度58.4°

(4).Interface

USB Cable   RS232 Cable and Power Adapter