

HW-1960M

FEATURES & BENEFITS

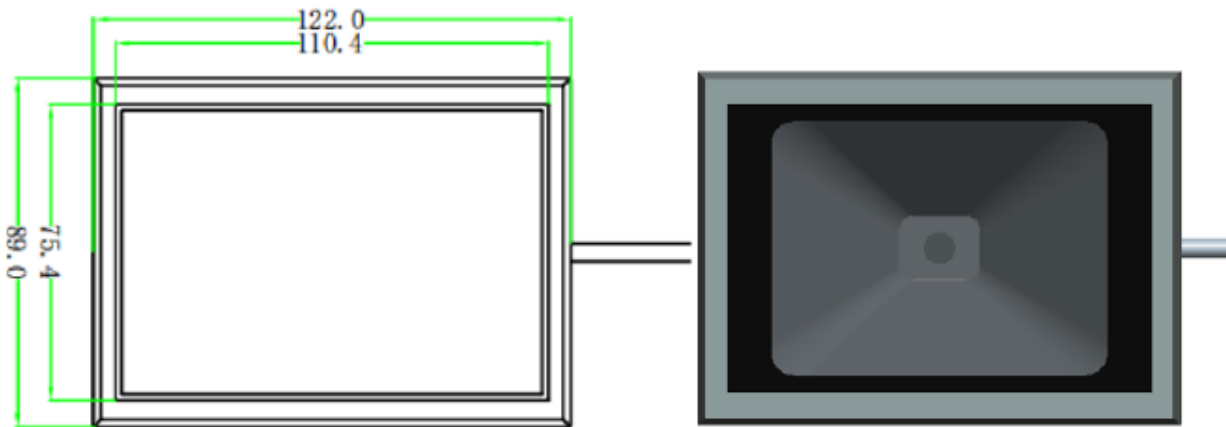
- 1MP high resolution,120FPS.
- 32-bit high performance CPU,1GHz frequency
- Decoding min barcode density:3mil
- Support 1D/2D barcode on paper and screen
- Extremely high sensitivity, quick scanning
- Motion tolerance up to 50cm/s
- Interface RS232,RS485, USB(HID,COM),TTL
- Auto-sensing, Continuous, Host Mode
- Large window, large scan angle.



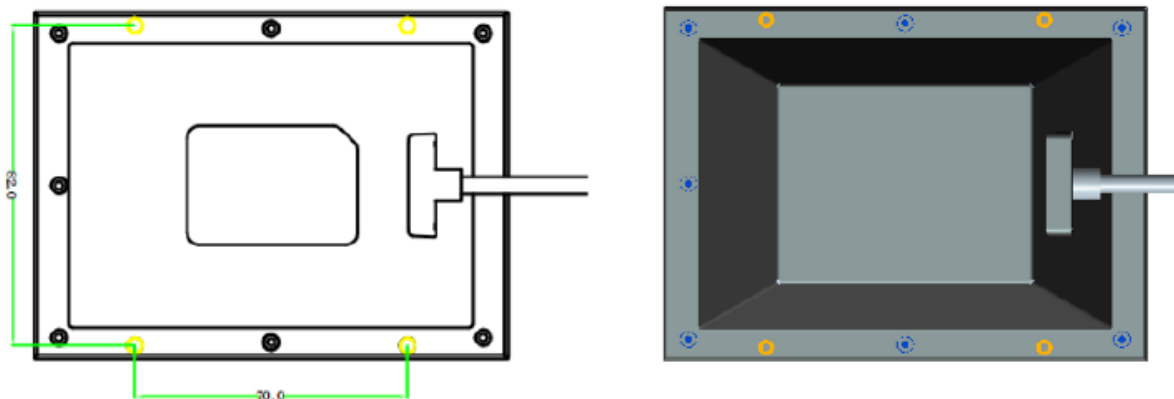
Installation Dimensions

The front view as below, suggest to open 110.6*75.6mm for front view mounting hole

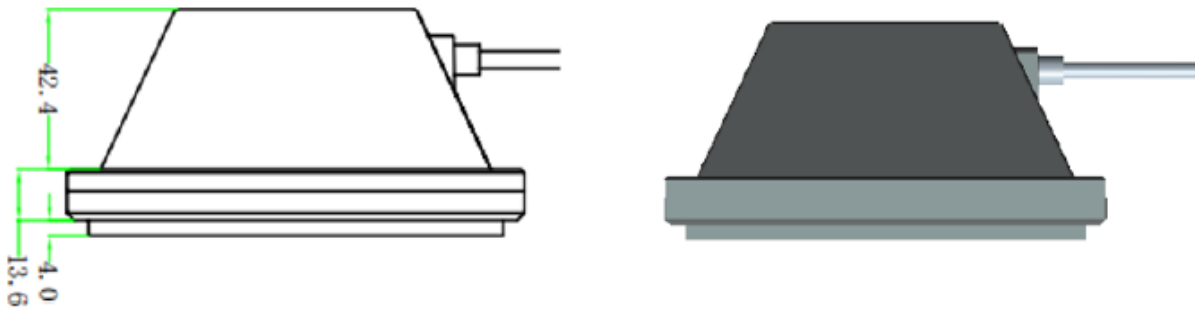
Unit: mm



The top view as below, there are 4 fixing hole, depth 5mm, M3.0 screws



The side view as below,



Interface Definitions

--. Connector spec: RJ45 8pin

--. Default cable: client end connector is USB-A, Serial port cable can be DB9+USB-A for client end or open wire.

PIN	I/O	Definition	Description
PIN 1	power	VIN	4.5~16V (5V)
PIN 2	GND	GND	Ground
PIN 3	input	RXD-232	RS232 R
PIN 4	output	TXD-232	RS232 T
PIN 5	-	D-	USB data-
PIN 6		D+	USB data+
PIN 7	In/-	RXD / A	TTL R(or RS485 A)
PIN 8	Out/-	RXD / B	TTL T(or RS485 B)



Application Scenario



Ticket on bus



Metro Turnstile



Vending machine

Technical Specification

HW-1960M Parameters

Reading performance	Image Sensor	CMOS		
	Resolution	1280*800 pixels 120fps		
	Decoding capacity	Support paper and screen barcodes		
		2D: QR Code, Micro QR code, Data Matrix, PDF417, Micro PDF417, Aztec Code, Maxi Code, HanXin Code etc.		
		1D: UPC-A,UPC-E,UPC-E1,EAN-13,EAN-8,ISBN,ISSN,ITF-14, Code 39, Code 39 full ASCII, Code 32,Interleaved 2 of 5,Industrial 2 of 5,Matrix 2 of 5,Codabar,Code 128,ISBT 128,Code 93,Code 11,MSI-Plessey, UCC/EAN 128,China Post,GS1 DataBar etc. all normal 1D		
	Precision	3mil		
	Light Source	White LED light		
	View Angle	78° (H) x54° (V)		
	Scan Angle	Rotation360° ,tilt±60° ,skew±60°		
	Min Contrast	20%		
	Trigger mode	Auto-sensing, Continuous, Host Mode		
	Motion Tolerance	50cm per second		
	Response time	50ms(4cm*4cm QR 350 bytes)		
	Typical DOF	8mil QR (26-81mm) (45chars) 5mil code39 (27-62mm)(10chars) 13mil code128 32-132mm)(12chars) 38mil QR (35mm-280mm)(18chars) Performance may be impacted by bar code quality and environmental conditions		
Mechanical and electrical	Interface	RS232(DB9, USB(HID, COM),TTL232,RS485		
	Working Voltage	DC 5V±5% or DC 12V±5%		
	Current	235mA(Max) 170mA(working) 70mA(standby)		
	Dimensions	122*89*60mm 85*64mm(scan window)		
	Weight	230g(without cable)		
	Indication	Buzzer & LED		
Environment Request	Working Tem	-20~60℃		
	Storage Tem	-40~70℃		
	Humidity	5%-95%(Non-condensing)		
	Light Immunity	0~100,000Lux		
	IP protective	IP56		