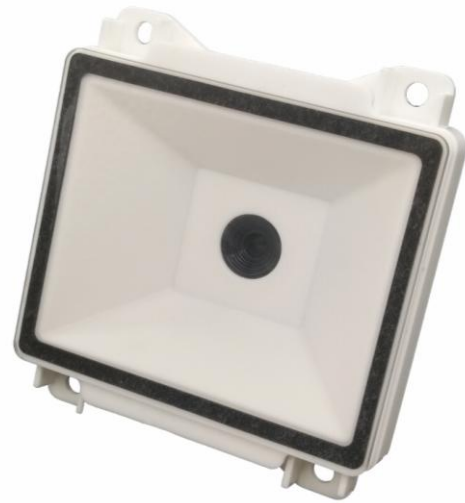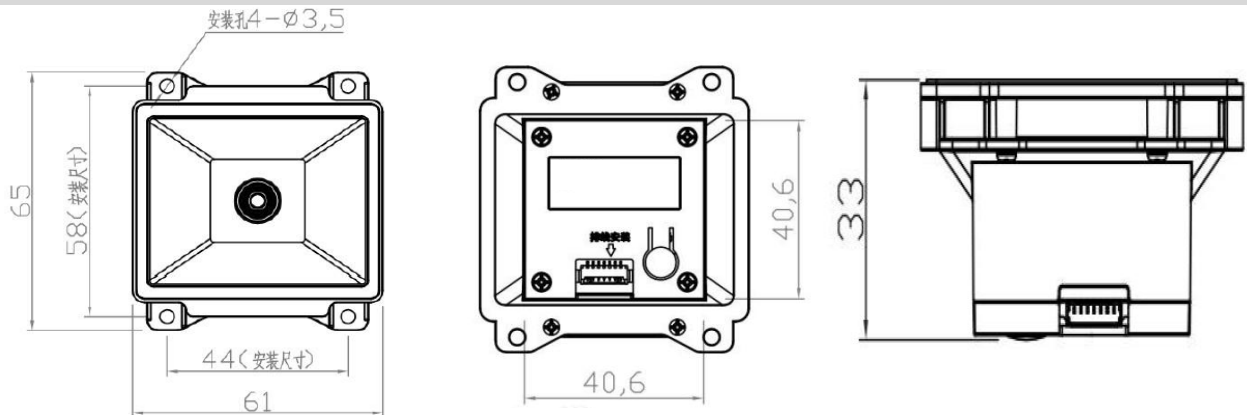## HW-1870 (HD)

FEATURES & BENEFITS

- Global shutter
- 32-bit high performance CPU,1GHz frequency
- Decoding min barcode density:4mil
- Support 1D/2D barcode on paper and screen
- Extremely high sensitivity, quick scanning
- Motion tolerance up to 50cm/s for code128(25mil)
- Interface RS232 and USB(HID,COM)
- Decoding at low and high brightness environment
- Manual, Auto-sensing, Continuous, Host Mode
- Large window, small size, fast convenient installation

Installation Dimensions

安装孔4-Ø3,5
65
58(安装尺寸)
44(安装尺寸)
61
40,6
40,6
33

Application Scenario

Ticket on bus

Turnstile

Vending machine

Ticket on cinema

Cabinet for logistics

self order machine(KFC)

Technical Specification

HW-1870 Parameters

Reading performance	Image Sensor	CMOS
	Exposure	Global shutter
	Resolution	300 thousand 640*480pixels 60fps
	Decoding capacity	Support paper and screen barcodes
		2D: QR,Micro QR,PDF417,Micro PDF417,Data Matrix,Maxicode, Aztec, GM code etc.
		1D: Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6,ITF-14, ISBN, Code 93, UCC/EAN-128,GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5,Plessey, MSI-Plessey etc. all normal 1D
	Precision	4mil
	Light Source	LED(630nm±10nm)
	View Angle	76.7°(H) x53.4°(V)
	Scan Angle	Rotation360°,tilt±65°,skew±65°
	Min Contrast	25%
	Motion Tolerance	50cm/s Code 128(25mil)
	IR Sensing	Support
	Typical DOF	10-90mm(5mil code39) 10-150mm(10mil code39) 10-110mm(5mil UPCA) 10-120mm(10mil UPCA) 25-150mm(15mil QR) 10-40mm(8mil QR) 12-40mm(5mil PDF417) 11-38mm(8mil Data Matrix) Performance may be impacted by bar code quality and environmental conditions
Mechanical and electrical	Interface	RS232(DB9..),USB(HID, COM)
	Working Voltage	DC 5V
	Current	360mA(Max) 220mA(working) 5mA(wait)
	Dimensions	65*61*33mm
	Weight	35g(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
	Drop Test	1.8M(6ft)

There are USB and RS232 cable

1. USB connector is USB type A, plug and play
2. RS232 cable is a DB9 connector(for data)+USB type A connector(for power)
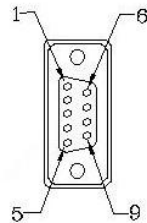   DB9 pin order is international standard

USB power

DB9 for RS232 data

Plug into scanner

RS232 Cable

USB power/Data

Plug into scanner

USB/USB COM Cable

Pin definition:

Pin2: RXD (receiving signal)

Pin3: TXD (transmit signal)

Pin5: GND (Ground)

The Pin order

PIN#	Signal Name	I/O	Remarks
1	Shielding net	-	Shielding net
2	GND black	-	Ground
3	+5V red	-	VCC
4	RXD green	Input	RS232 receiver
5	TXD white	Output	RS232 transmission
6	USB_D+ green	Input/Output	USB_D+ signal
7	USB_D- white	Input/Output	USB_D- signal