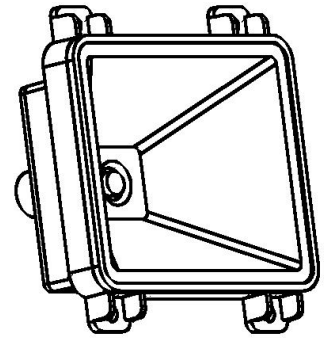
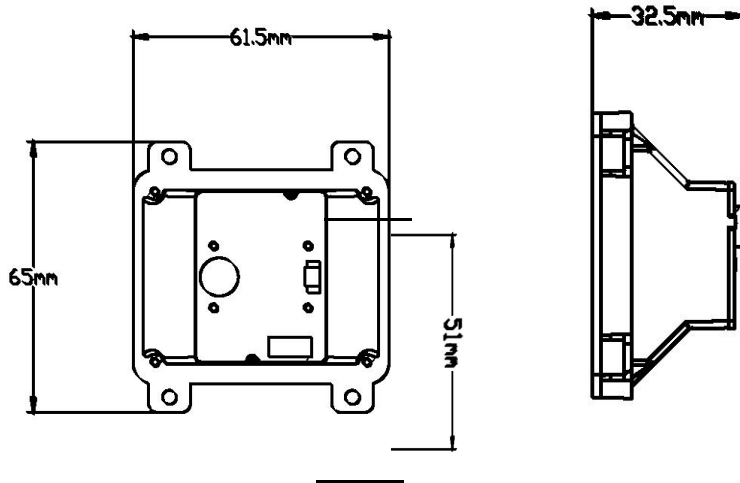


NT-1605 Specification

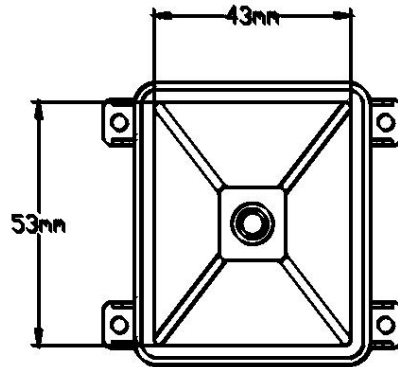
Optical Properties	sensor	640×480 CMOS		
	light	White LED (6500K) 4 pcs		
	code	2D	QR Code, Data Matrix, PDF417, Aztec, Maxicode	
		1D	EAN, UPC, Code 39, Code 93, Code 128, UCC/EAN 128, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, ISSN, MSI-Plessey GS1 Databar, GS1 Composite Code, Code 11, Industrial 25, Standard 25, Plessey, Matrix 2 of 5	
	Precision:	1D ≥ 3mil 2D ≥ 5mil		
	Depth	EAN-13	50mm-200mm (13mil)	
		Code39	40mm-90mm (5mil 10 bytes)	
		QR Screen Code 100mm-500mm (23*23mm) (23*23mm)		
		QR Code	25mm-240mm (20mil 16 bytes)	
		Data Marix	0mm-90mm (10mil 30 bytes)	
PDF 417		30mm-130mm (6.67mil 7 bytes)		
Contrast	≥ 25%			
Movement tolerance	1D: 70mm/s (code39_ _14), 90mm/s (code128_ 19)			
	2D: 110mm/s (V7_L)			
Scan angle	corner 360° , elevation angle ± 55° , declination ± 55°			
field of view	D:52°	H:42.7°	V:32.4°	
Electrical Characteristics	Communication Interface	USB (HID-KBW、Virtual serial port) 、TTL、RS232		
	physical	61.5mm*65mm*32.5mm		
	Material	ABS		
	Cable length	1M		
	Operating Voltage	/Current/power consumption	DC 5V ± 5%/200mA /550mW	
	stand-by	80mA		
operating	Operating	-20°C ~ +50°C		
	Storage	-40°C ~ +70°C		
	Working ambient	5%~95% (No condensation)		
	Static	Contact discharge ±8KV/air discharge ±12KV		
	Drop	Can withstand a 1.5-meter drop to the concrete floor		

specifications and dimensions

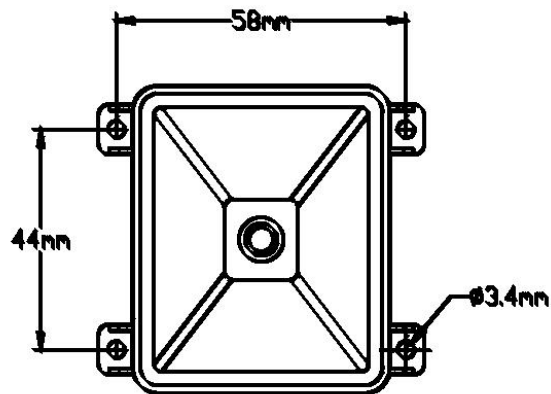
L*W*H : 61.5mm*61mm*32.5mm



Scan window size : 53mm*43mm



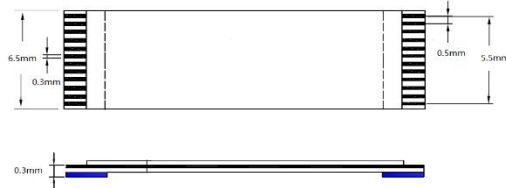
CAD hole map :



Module 12 pin interface definition and signal description :

Serial#	Pin	Description
1	NC	
2	VCC	Input 3.3V
3	GND	
4	RXD	TTL serial port receive
5	TXD	TTL serial port send
6	DN	USB D-
7	DP	USB D+
8	NC	
9	BEEP	Buzzer control
10	DLED	LED indication
11	RESERVED	
12	TRIG	Trigger input signal

When using it, you need to use a 12PIN direct-connected flexible cable at both ends to connect to the peripherals.




Module 9Pin connector (Pin pitch: 1.0mm) description :

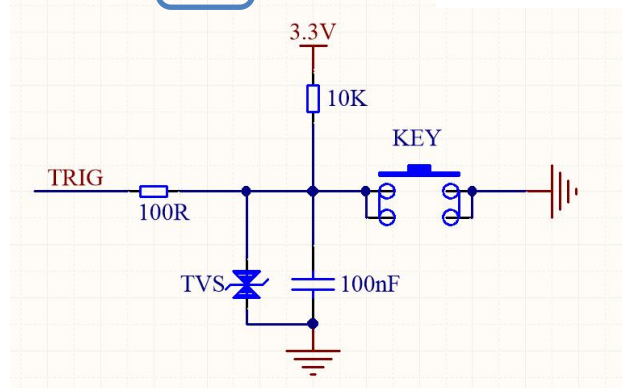
Serial#	Pin	Description
1	TRIG	
2	DLED	LED indication
3	BEEP	Buzzer control
4	DP	USB D+
5	DN	USB D-
6	TXD	TTL serial port send

7	RXD	TTL serial port receive
8	GND	
9	VCC	Input 5V

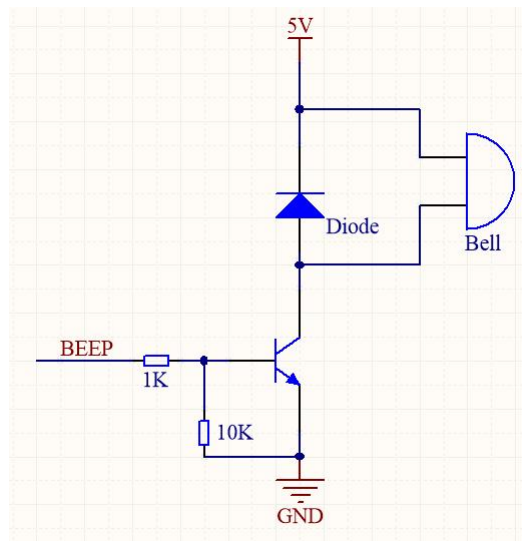
Drive circuit

The module's power supply, TTL level, USB and other pins are directly connected to the external circuit. The trigger pin and buzzer pin require a driver circuit. Please refer to the following circuit design:

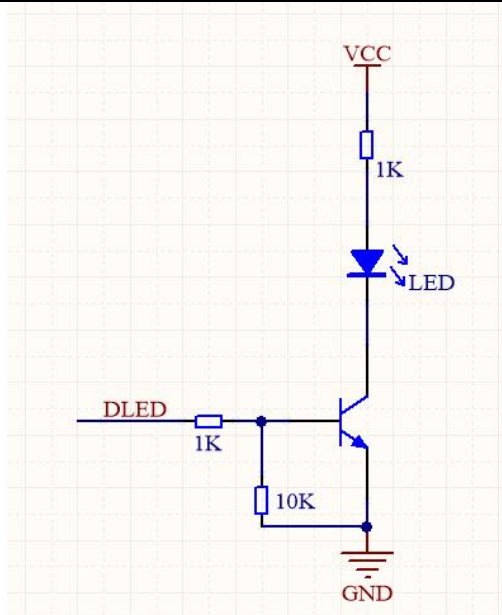
☞ Trigger pin (TRIG) drive circuit:  Pin gap 1.25mm



☞ Passive buzzer pin driver circuit:



☞ DLED pin driver circuit



When the decoding is successful, the BEEP and DLED pins will give a high level pulse.