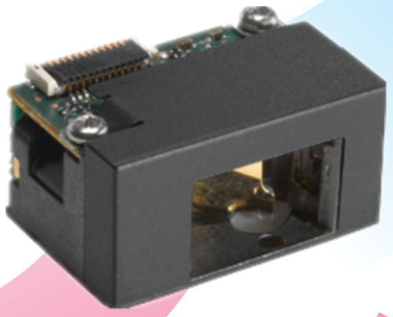
YJOT亿嘉

科技改变未来

MZ-L101

One-dimensional laser module

- Comprehensive reading ability
- Low power design compatible with all kinds of devices
- Humanized light source
- Powerful data editing capabilities
- Reliable and durable structure design



Product Features

Comprehensive reading ability

Can read paper codes with a density of more than 4mil and direct component bar codes.

Low power design compatible with all kinds of devices

The low power design of the device can minimize the connection problems caused by factors such as insufficient USB drive capacity of the host or excessive voltage requirements of the access device, and maximize the compatibility of the device.

Powerful data editing capabilities

Powerful data editing function can flexibly meet all kinds of data editing requirements.

Reliable and durable structure design

It can withstand repeated falls from a height of 60cm to the concrete floor, making the product have excellent reliability and stability.

Humanized light source

The red laser light source can not produce visual fatigue under continuous high intensity working conditions, and greatly improve the working efficiency.

MZ-L101

One-dimensional laser module

1.Technical Parameter

Electrical Character	
Data interface	TTL
Working voltage	DC3.3V±10%
Working current	78mA
Optical Property	
Sensor	Visible laser, wavelength 650±10nm
Performance Characteristic	
Reading angle	Tilt：±65°；Shifting：±40°；Rotate：±35°
Reading accuracy	4mil/0.102mm
Min print contrast	>25%UPC/EAN 13(13mil)
Scanning rate	104 fps
Curvature	R＞15mm（EAN8），R＞20mm（EAN13）
Decoding capability	UPC/EAN,Code128,Code39,Code93,Code11,Interleaved2of5,Discrete 2of5,Chinese 2of5,Codabar,MSI,GS1 DataBar, Data Options, Serial Interface, Event Reporting

Physical Characteristics

Physical size	15.2mm*21.6mm*11.75mm
Weight	7.5g

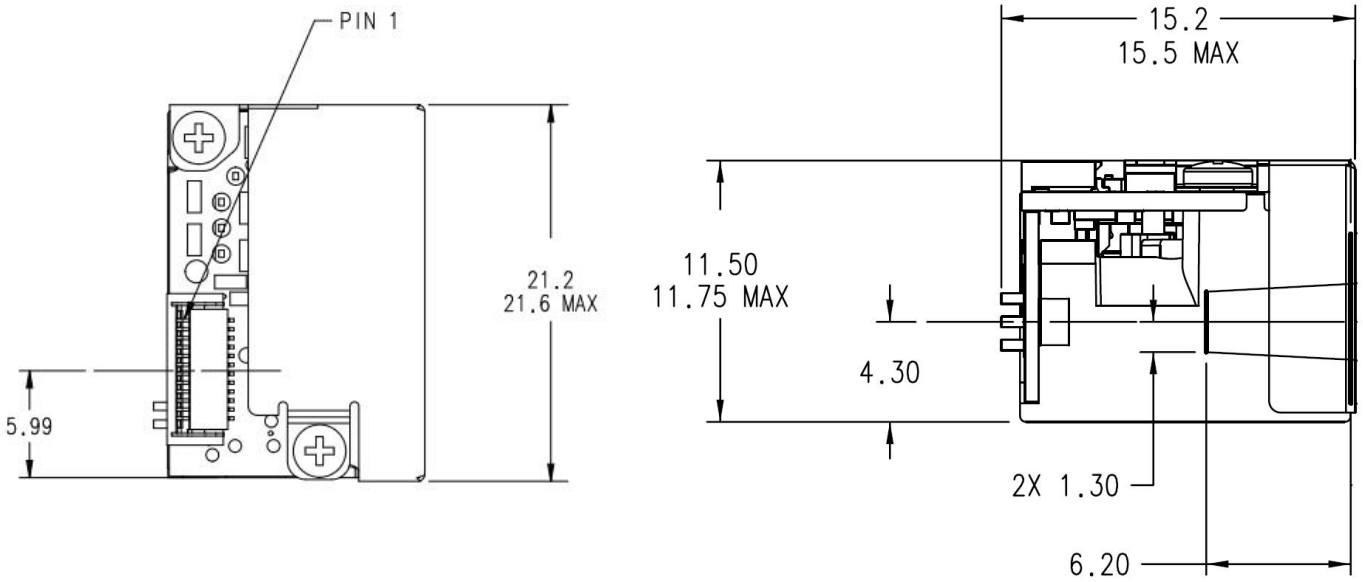
Environmental Character

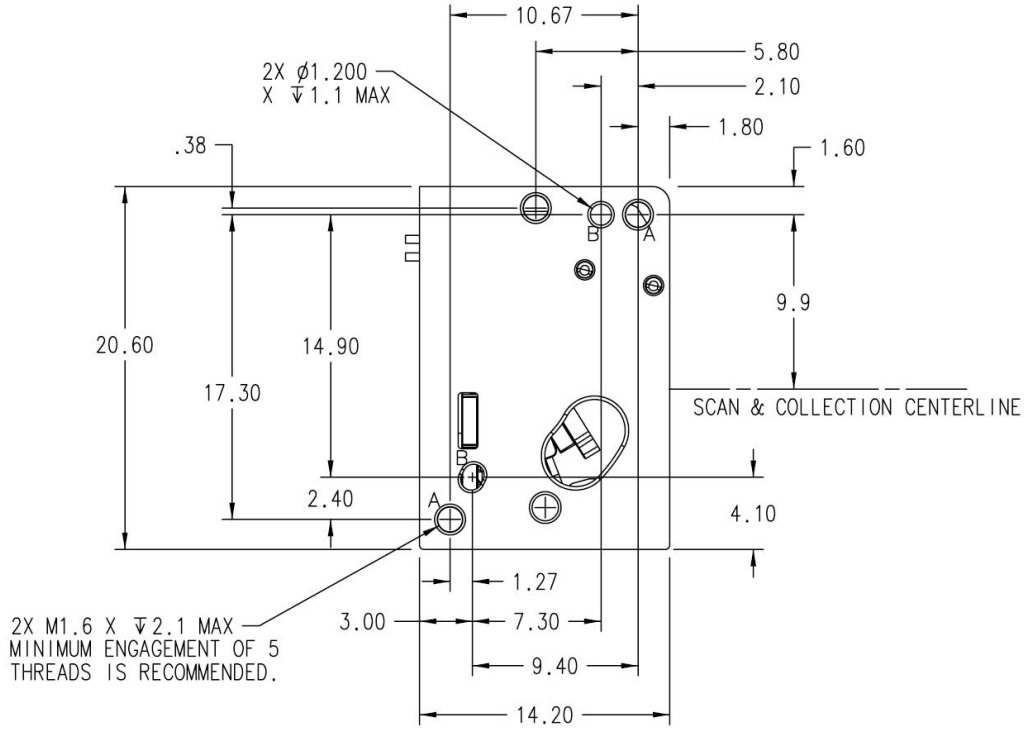
Temperature	-30°C-60°C (Work) , -40°C-70°C (Storage)
Humidity	5%~95%
Seismic ability	Fell from a distance of 60CM to the concrete surface several times

Decoding the depth of field table

Barcode type	Barcode density	Bar code digits	Barcode content	Neares	Farthest
codabar	9mil	9	123456789	2.3cm	57.5cm
codabar	9mil	10	1234567890	2.6cm	58.0cm
Code39	7.5mil	6	ABCDEF	1.5cm	49.5cm
Code39	11mil	6	ABCDEF	2.5cm	70.0cm
Code39	16mil	6	ABCDEF	4.3cm	88.5cm
Code128	11mil	6	ABCDEF	2.1cm	56.7cm
Code128	16mil	6	ABCDEF	3.4cm	82.0cm

2. Product Size





3.Definition of PIN

Number	Name	Type	Instruction
1	Flash Down	I	Program download: when the system is powered on, it enters the download mode; when the system is powered on, it enters the operation mode. If the user does not need this function, the pin can be left open (N/C)
2	VCC	P	Power supply pin: 3.3V±5%
3	GND	P	Power down
4	RXD	I	Data input: serial port input, TTL level
5	TXD	O	Data output: serial port output, TTL level
6	USBD-		USB D-（USB version）
7	USBD+		USB D+（USB version）
8	N/C		Floating
9	BEEP	O	The output signal of the buzzer is not enough to directly drive the buzzer. Please add a driving circuit when using it.
10	DLED	O	Indicator light output signal:its output current is not enough to directly drive the LED lamp, please add a driver circuit when using
11	N/C		Floating
12	TRIG	I	Trigger pin: The voltage of this pin is low enough to trigger the module to read and decode

4.Angle of view

Rotate around the Z axis

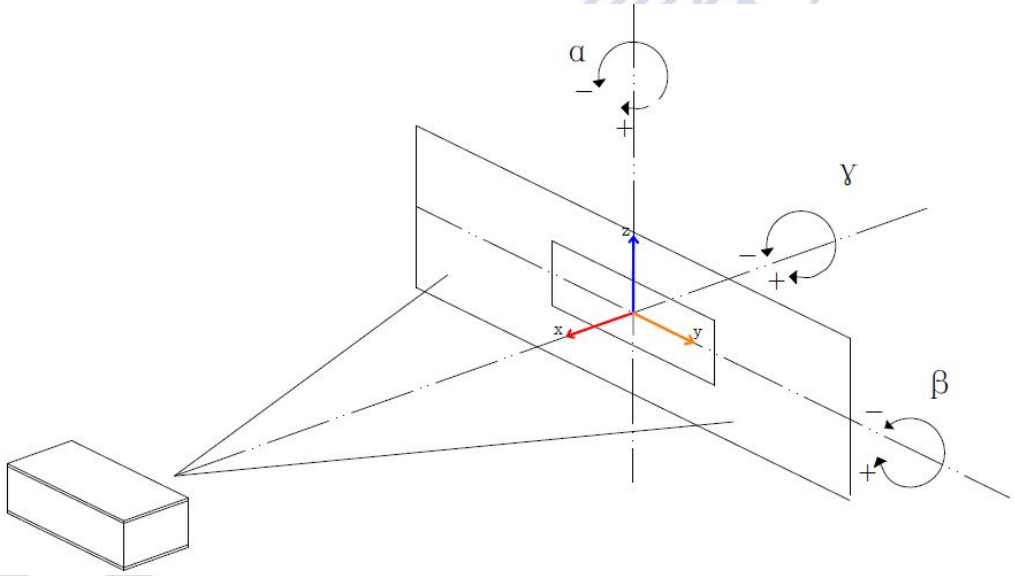
α =±40°

Rotate around the Y axis

β =±65°

Rotate around the X axis

γ =±35°



Schematic diagram of rotation Angle