

PID-P3000X Series Code Reader

- ◆ Adoption of high-performance image sensors.
- ◆ Built-in deep learning code reading algorithm, efficiently read barcodes and QR codes, impervious to dirt and damage interference.
- ◆ Light sources are controlled separately by zones, adapting to a variety of different lighting environments.
- ◆ Equipped with a motorized lens for automatic focusing, significantly improving the efficiency of setup and adjustment.
- ◆ Supports transmission protocols such as TCP/IP, Serial, FTP and HTTP.
- ◆ Rich IO interfaces allow for the connection of multiple input and output signals.



LANBAO

Part number	Light source	Sensor type	Shutter type	Resolution	Maximum processing frame rate (fps)	Maximum read speed(code/s)
PID-P3013X-XXM-RH	Red light source, semi-polarized lens cover	CMOS	Global	1280x1024	60	60
PID-P3013X-XXM-RF	Red light source, full-polarized lens cover	CMOS	Global	1280x1024	60	60
PID-P3013X-XXM-WN	White light source, regular lens cover	CMOS	Global	1280x1024	60	60
PID-P3013X-XXM-BH	Blue light source, semi-polarized lens cover	CMOS	Global	1280x1024	60	60
PID-P3013X-XXM-BF	Blue light source, full-polarized lens cover	CMOS	Global	1280x1024	60	60

Lens focal	7mm/12mm(Auto focus)
Lens connection	M8-Mount
Connection type	The M12 connector provides power and I/O: RS232, 2 isolated inputs and 3 isolated outputs
Network interface	100M ethernet
Code type	One-dimensional code: Code39, Code128, EAN8, EAN13, UPC_A, UPC_E, Code93, GS1-128, GS1-DataBar expand, ITF, PHARMACODE, CODABAR etc. Two-dimensional code: QR Code, Data Matrix, PDF417 etc.
Communication mode	SDK, TCP Client, FTP, TCP Server, RS232, Profinet, Modbus, Ether Net/IP, MCUDP, MCTcp, FinsUDP etc.
Sighting device	Red LED
Dimensions	47mm × 57.8mm × 38mm(Without cable)
Reading distance	50-500mm
Weight	<180g
Power consumption	<14W
Power supply mode	Support 9V~26V, 1.5A input
Ambient humidity	20%~95%, Non-condensing
Temperature	Operating temperature: -20~50°C; Storage temperature: -30~70°C
Protection degree	IP65

Range reading characteristics chart-P3013X series
PID-P3013X-07M series
Minimum resolution

Unit: mm

Recognition resolution

Working distance	One-dimensional code	Two-dimensional code
50	0.04	0.08
150	0.10	0.23
230	0.15	0.34
300	0.19	0.44
400	0.26	0.58
500	0.32	0.73

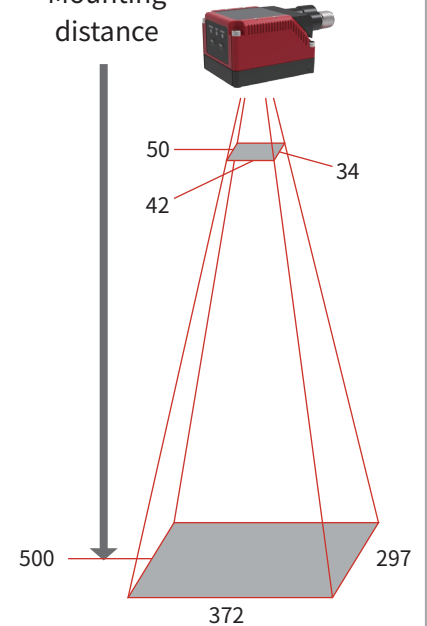
Vision

Unit: mm

Range reading characteristics chart

Working distance	Horizontal vision	Vertical vision
50	42	34
150	116	92
230	173	139
300	225	180
400	298	239
500	372	297

Mounting distance


PID-P3013X-12M series
Minimum resolution

Unit: mm

Recognition resolution

Working distance	One-dimensional code	Two-dimensional code
50	0.04	0.04
150	0.06	0.13
230	0.08	0.19
300	0.11	0.25
400	0.15	0.33
500	0.18	0.42

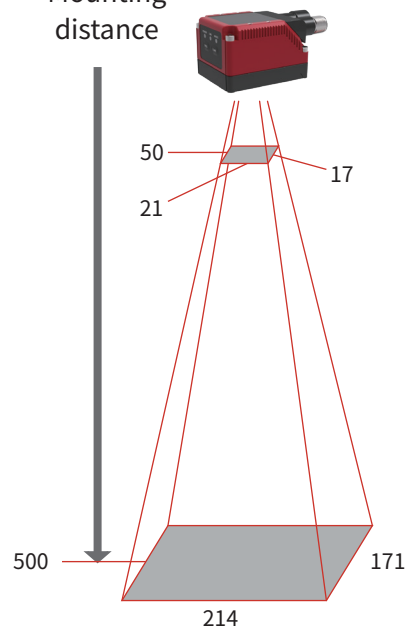
Vision

Unit: mm

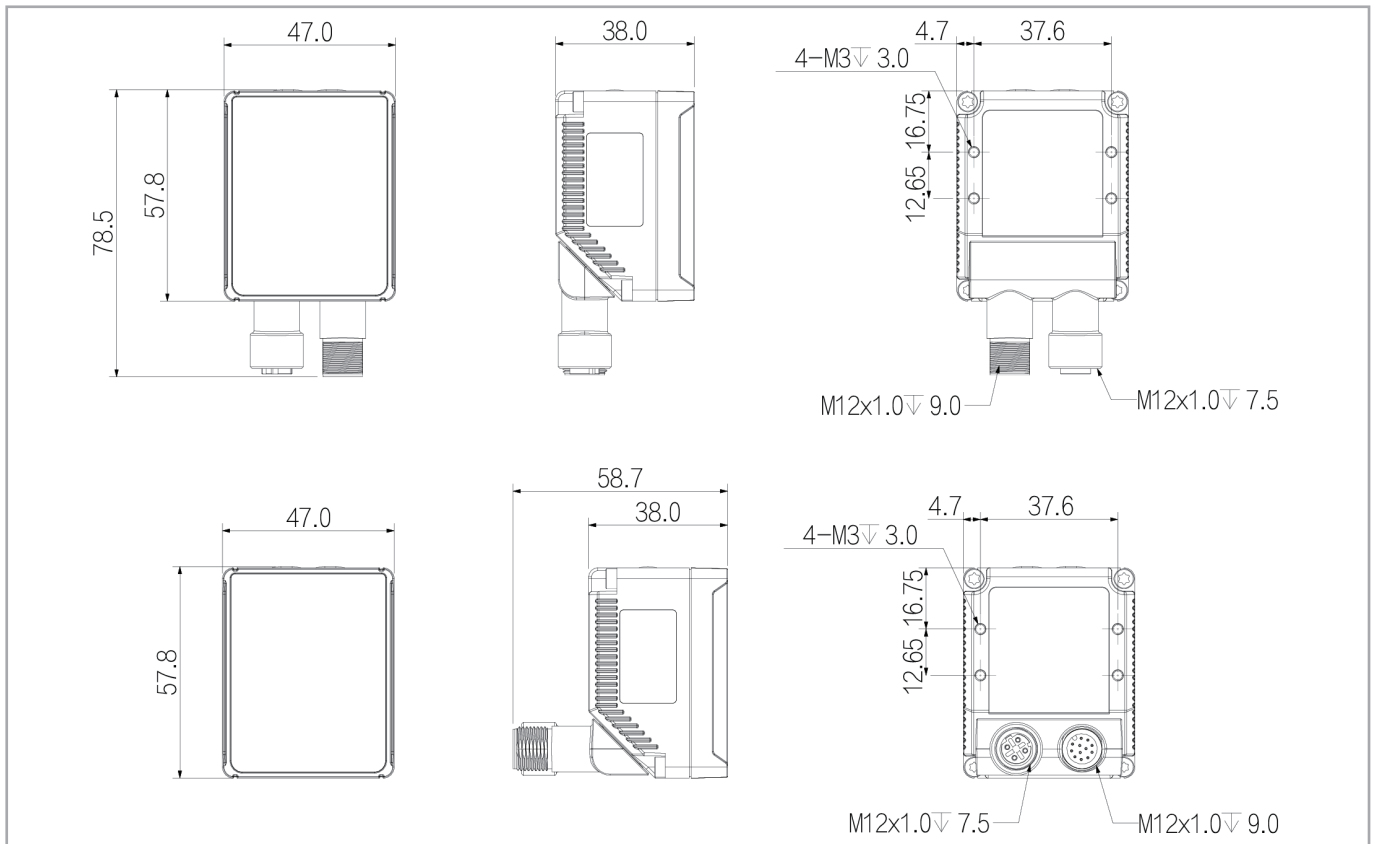
Range reading characteristics chart

Working distance	Horizontal vision	Vertical vision
50	21	17
150	64	51
230	98	79
300	128	103
400	171	137
500	214	171

Mounting distance



Dimensions



Interface definition

Pin	Signal	Description	Matching cable color
1	OPT_OUT2	Optocoupled isolation output 2 (LINE 4)	 Brown+ white
2	RS232_TXD	RS232 Serial port transmitter	 Gray
3	RS232_RXD	RS232 Serial port receiver	 Purple
4	SIGNAL_GND	RS232 Serial port ground	 Black+ white
5	OPT_IN1	Optocoupled isolation input 1 (LINE 1)	 Yellow
6	OPT_IN_GND	Optocoupled isolation input ground	 Purple+ white
7	POWER	Power supply	 Red
8	POWER_GND	Power supply ground	 Black
9	OPT_OUT_GND	Optocoupled isolation input ground	 Green
10	OPT_IN0	Optocoupled isolation input 0 (LINE 0)	 Orange
11	OPT_OUT0	Optocoupled isolation output 0 (LINE 2)	 Blue
12	OPT_OUT1	Optocoupled isolation output 1 (LINE 3)	 Brown
13		Shielded ground	 White

Cable

Power supply & GPIO cable			Ethernet cable		
	Standard cable	High flexibility cable		Standard cable	High flexibility cable
5m	PID-PIO-M12F12-D9-S-5	PID-PIO-M12F12-D9-T-5	3m	PID-PLA-M12M4-RJ45-S-3	PID-PLA-M12M4-RJ45-T-3
10m	PID-PIO-M12F12-D9-S-10	PID-PIO-M12F12-D9-T-10	5m	PID-PLA-M12M4-RJ45-S-5	PID-PLA-M12M4-RJ45-T-5
15m	PID-PIO-M12F12-D9-S-15	PID-PIO-M12F12-D9-T-15	10m	PID-PLA-M12M4-RJ45-S-10	PID-PLA-M12M4-RJ45-T-10
20m	PID-PIO-M12F12-D9-S-20		15m	PID-PLA-M12M4-RJ45-S-15	PID-PLA-M12M4-RJ45-T-15
30m	PID-PIO-M12F12-D9-S-30				
					

