LANBAO

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LANBAO CATALOG 2024-12

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Sensing the Dream

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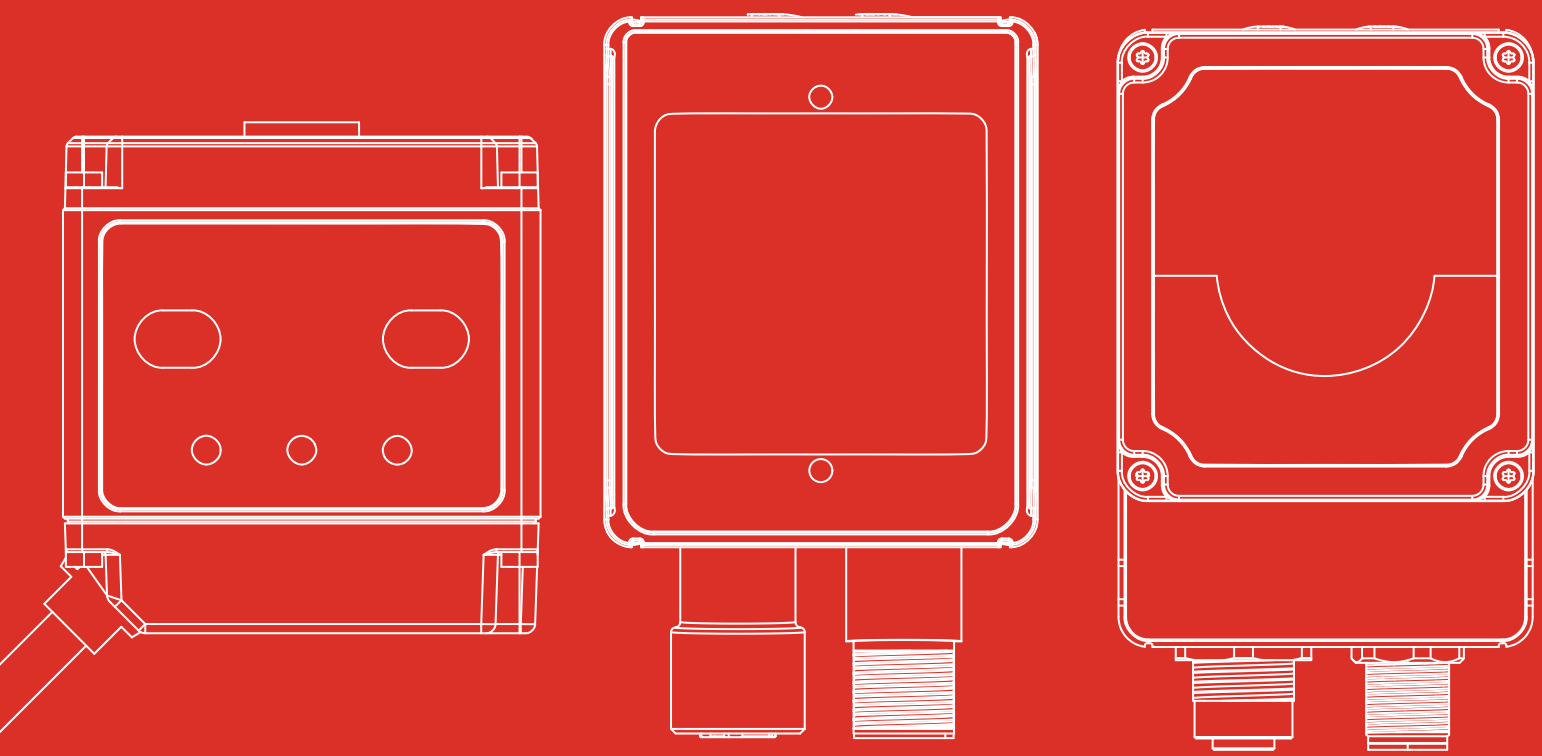
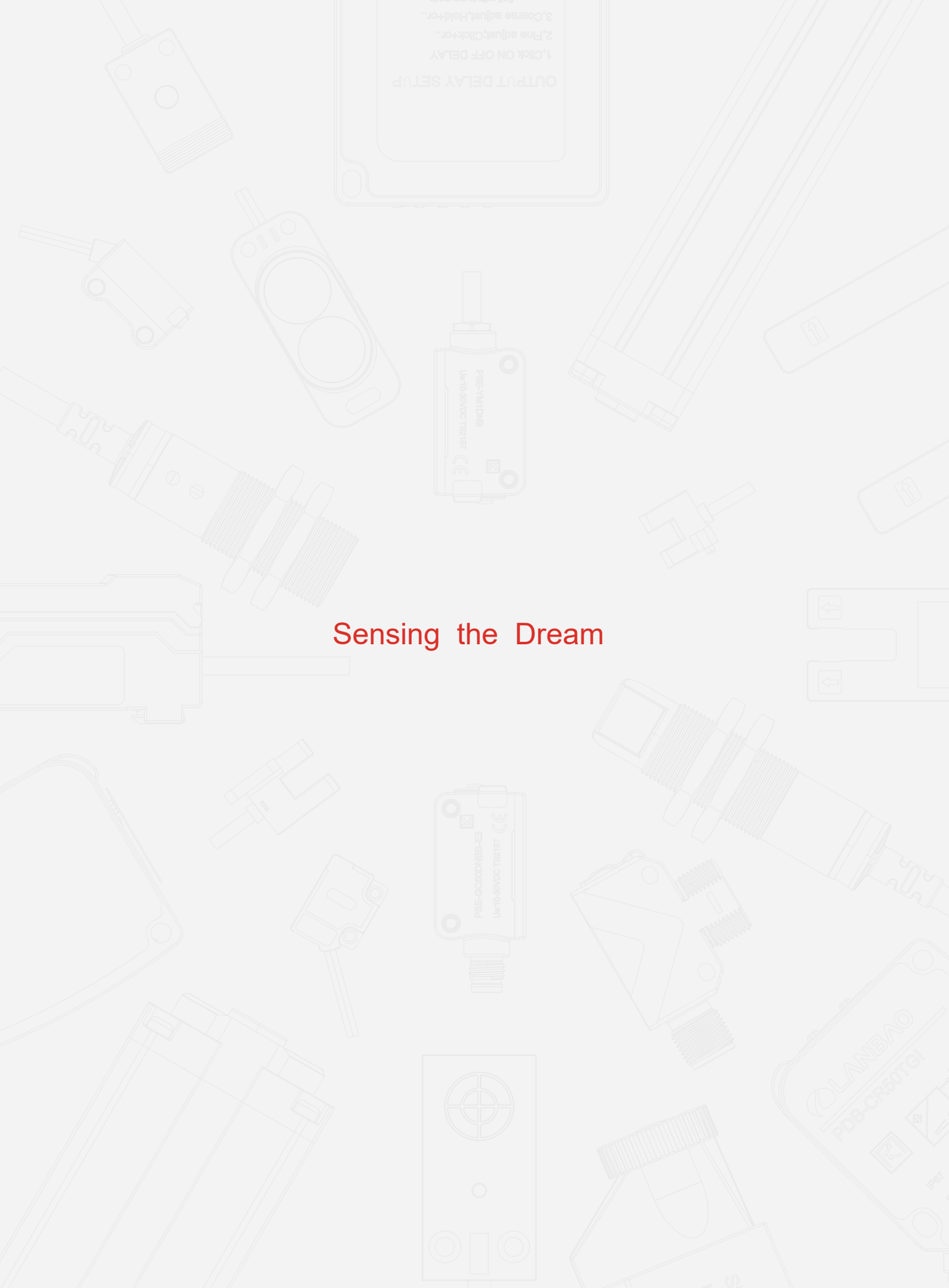
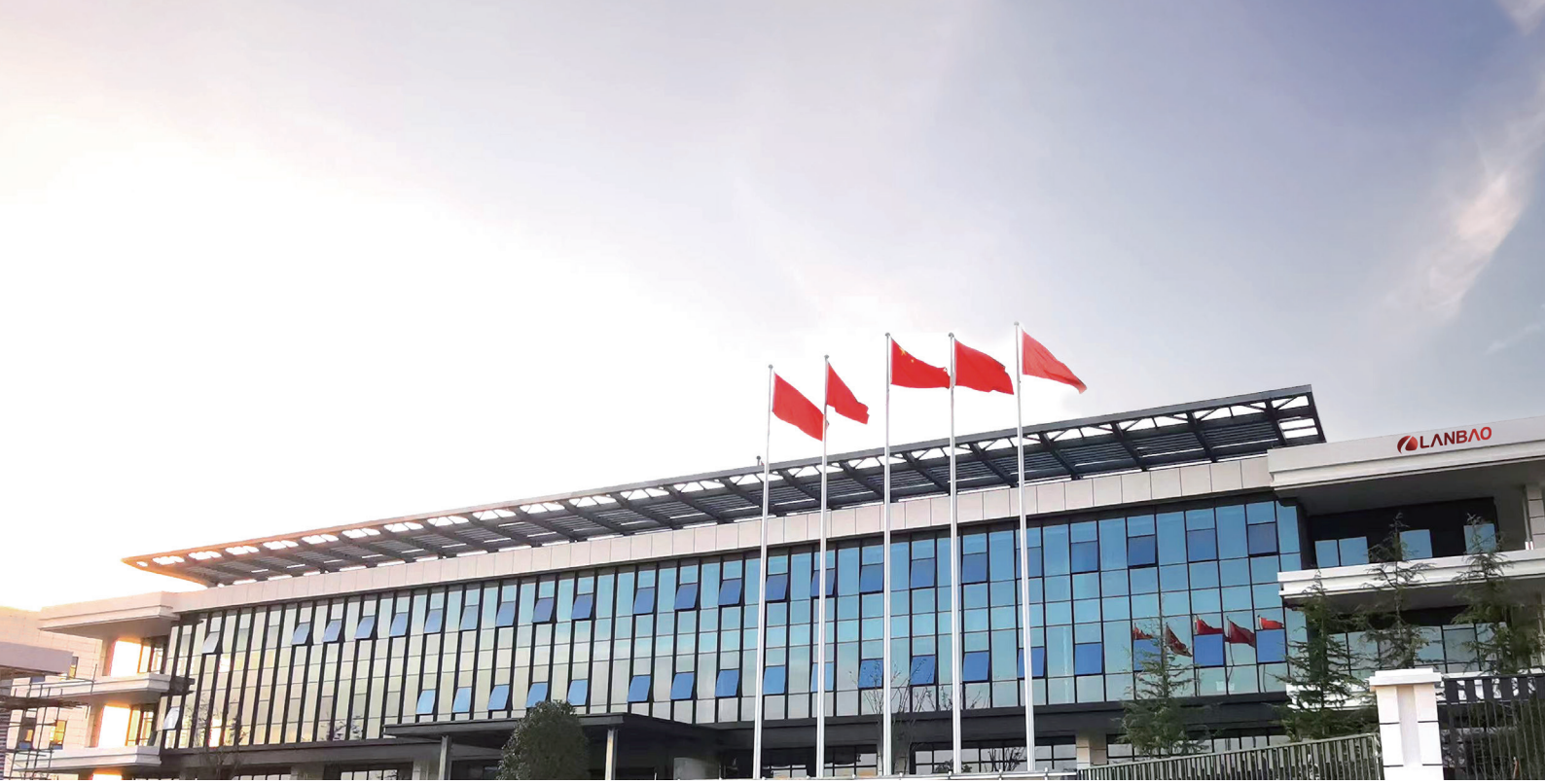
Code Reader Selection Catalog



Shanghai Lanbao Sensing Technology Co., Ltd.


Sensing the Dream



About Us

Shanghai Lanbao Sensing Technology Co., Ltd., established in 1998, is a leading Chinese provider of industrial automation solutions. We specialize in developing innovative sensing technologies and systems, driving advancements in intelligent manufacturing. Our products are widely used across various industries, including electronics, automotive, and energy, enhancing efficiency, safety, and sustainability.

Lanbao offers a comprehensive range of sensors, including photoelectric, inductive, capacitive, laser, millimeter wave, ultrasonic, and 3D laser measurement. Our solutions cater to diverse applications, from industrial robotics and automation to advanced manufacturing processes.

Recognized for our commitment to quality and innovation, Lanbao sensors are a preferred choice for replacing imported products, contributing to the localization of China's industrial automation sector.

In 1998
Established

360+
Patents and copyrights

99,000m²
Factory

120+
Countries

10,000+
Products

15,000,000
Pcs/year

PID-P2000G 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.
- Compact design fits a wider range of industrial application scenarios.
- Supports transmission protocols such as TCP/IP, Serial, FTP and HTTP.
- Rich IO interfaces allow for the connection of multiple input and output signals.

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Part number	Light source	Sensor type	Shutter type	Resolution	Maximum processing frame rate (fps)	Maximum read speed(code/s)
PID-P2013G-05-RWN-110	Red and white light source, regular lens cover	CMOS	Global	1280x1024	60	31
PID-P2013G-05H-WN	White light source, regular lens cover	CMOS	Global	1280x1024	60	31
PID-P2013G-05H-RWN	Red and white light source, regular lens cover	CMOS	Global	1280x1024	60	31

Lens focal	4.8mm(Fixed focus/ manual focus)
Lens connection	M8-Mount
Connection type	The M12 connector provides power and I/O:RS232, 1 isolated input, 1 isolated output and 1 configurable input/output
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 light indicator
Dimensions	50mm × 50mm × 28.5mm(Without cable)
Reading distance	Manual focus: 40-150mm; Fixed focus: 110mm
Weight	＜130g
Power consumption	＜2.5W
Power supply mode	Support 9V～26V, 0.5A 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

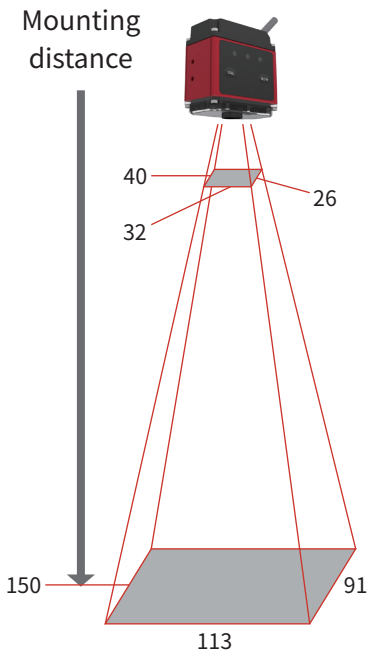
PID-P2013G-05H series

Minimum resolution Unit: mm

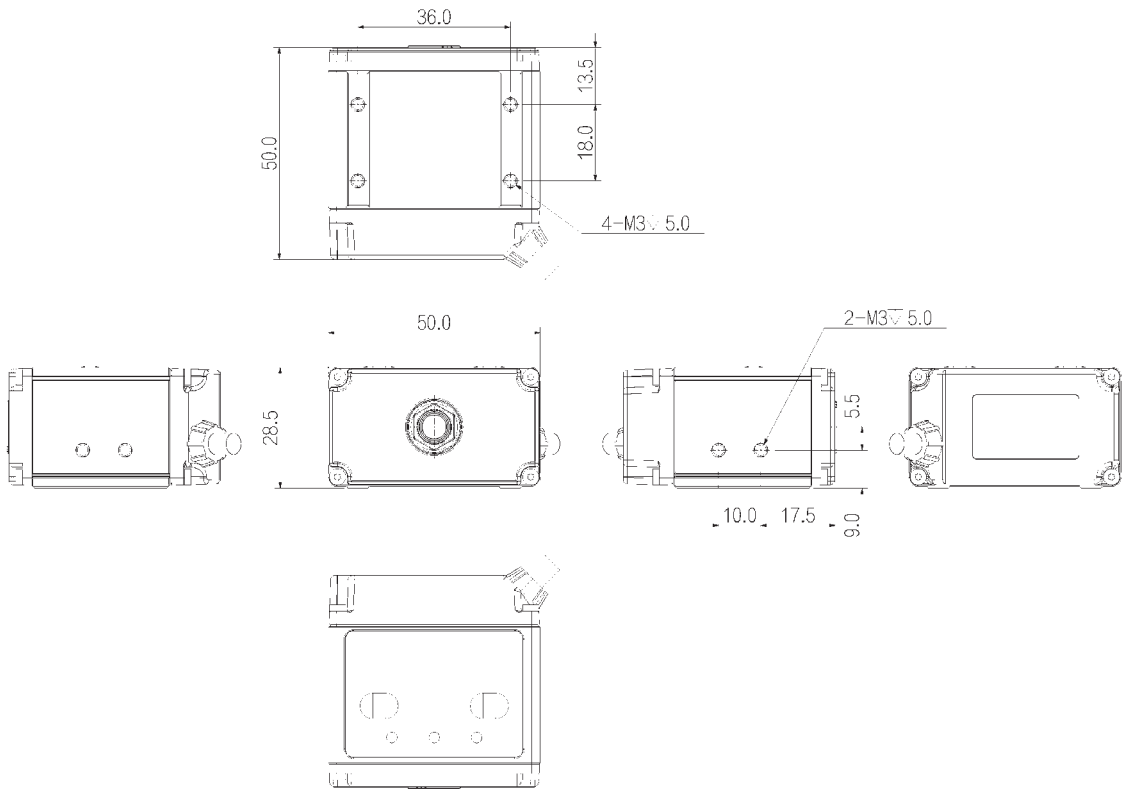
	Working distance	One-dimensional code	Two-dimensional code
Recognition resolution	40	0.05	0.08
	70	0.05	0.11
	110	0.07	0.16
	130	0.09	0.20
	150	0.10	0.22

Vision Unit: mm

	Working distance	Horizontal vision	Vertical vision
Range reading characteristics chart	40	32	26
	70	54	43
	110	84	67
	130	100	80
	150	113	91



Dimensions



Interface definition

Pin	Signal	Description	Matching cable color
1	POWER	Power input	Red
2	POWER_GND	Power ground	Black
3	OPT_OUT0	Optocoupled output	Brown
4	OPT_GND	Optocoupled ground	Purple+ white
5	OPT_INO	Optocoupled input	Yellow
6	GPIO	Configurable IO	Blue
7	MD1_P	RJ45 interface	Green
8	MD1_N	RJ45 interface	Green+ white
9	MD0_P	RJ45 interface	Orange
10	MD0_N	RJ45 interface	Orange+white
11	RS232_RXD	Serial port receiver	Purple
12	RS232_TXD	Serial port transmitter	Gray

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.

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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

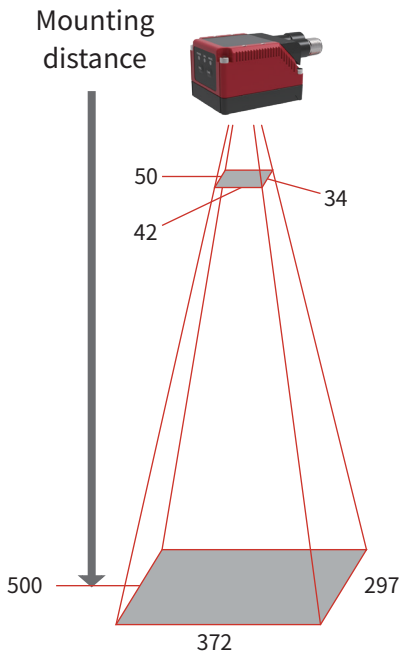
PID-P3013X-07M series

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



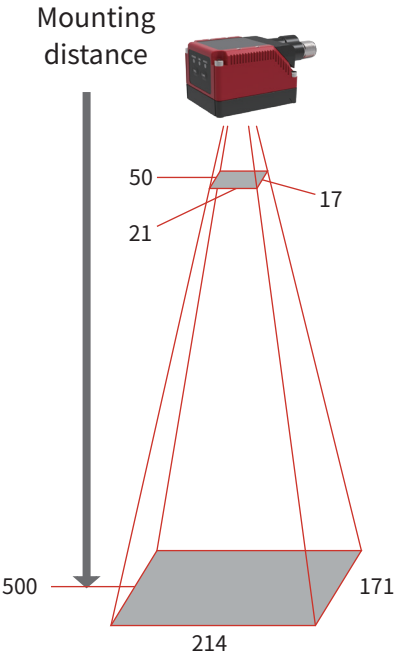
PID-P3013X-12M series

Minimum resolution Unit: mm

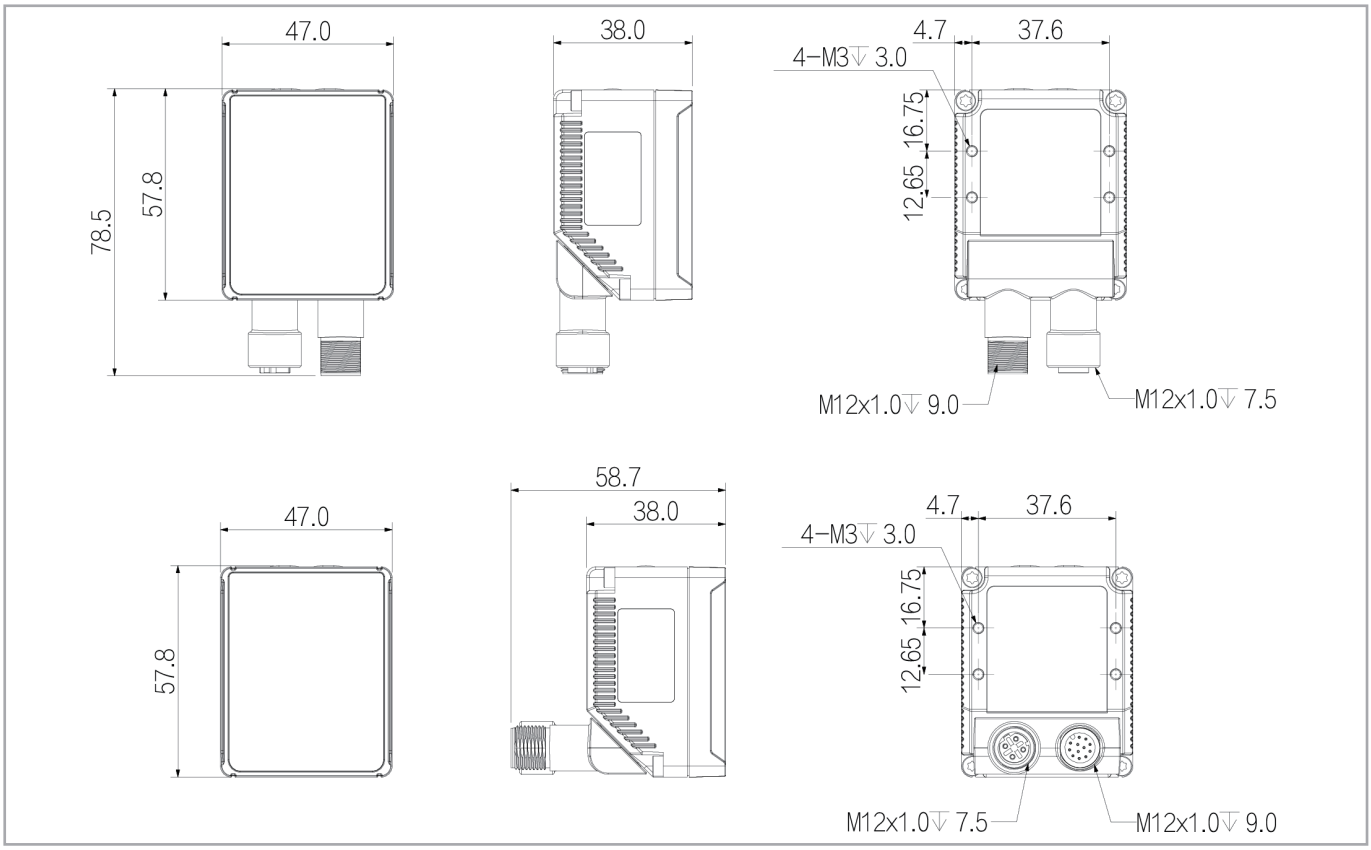
Recognition resolution	Working distance	One-dimensional code	Two-dimensional code
	50	0.04	0.04
	150	0.06	0.13
	230	0.08	0.19
	300	0.11	0.25
	400	0.15	0.33
	500	0.18	0.42

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



Dimensions

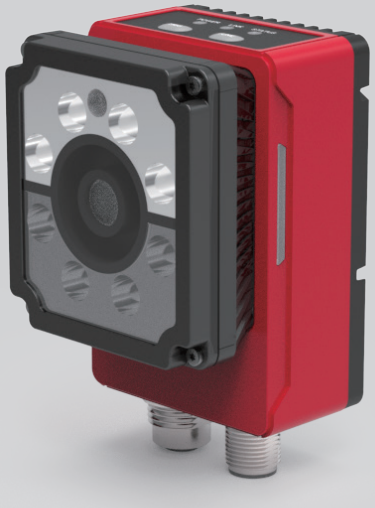


Interface definition

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_OUTO	Optocoupled isolation output 0 (LINE 2)	Blue
12	OPT_0UT1	Optocoupled isolation output 1 (LINE 3)	Brown
13		Shielded ground	White

PID-P3000G 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.



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Part number	Light source	Sensor type	Shutter type	Resolution	Maximum processing frame rate (fps)	Maximum read speed(code/s)
PID-P3013G-XXM-RH	Red light source, Half-polarized lens cover	CMOS	Global	1280x1024	60	90
PID-P3013G-XXM-RF	Red light source, Full-polarized lens cover	CMOS	Global	1280x1024	60	90
PID-P3013G-XXM-WN	White light source, Normal lens cover	CMOS	Global	1280x1024	60	90
PID-P3013G-XXM-BH	Blue light source, Half-polarized lens cover	CMOS	Global	1280x1024	60	90
PID-P3013G-XXM-BF	Blue light source, Full-polarized lens cover	CMOS	Global	1280x1024	60	90
PID-P3016G-XXM-RH	Red light source, Half-polarized lens cover	CMOS	Global	1440x1080	60	90
PID-P3016G-XXM-RF	Red light source, Full-polarized lens cover	CMOS	Global	1440x1080	60	90
PID-P3016G-XXM-WN	White light source, Normal lens cover	CMOS	Global	1440x1080	60	90
PID-P3016G-XXM-BH	Blue light source, Half-polarized lens cover	CMOS	Global	1440x1080	60	90
PID-P3016G-XXM-BF	Blue light source, Full-polarized lens cover	CMOS	Global	1440x1080	60	90
PID-P3050G-XXM-RH	Red light source, Half-polarized lens cover	CMOS	Global	2368x1792	45	90
PID-P3050G-XXM-RF	Red light source, Full-polarized lens cover	CMOS	Global	2368x1792	45	90
PID-P3050G-XXM-WN	White light source, Normal lens cover	CMOS	Global	2368x1792	45	90
PID-P3050G-XXM-BH	Blue light source, Half-polarized lens cover	CMOS	Global	2368x1792	45	90
PID-P3050G-XXM-BF	Blue light source, Full-polarized lens cover	CMOS	Global	2368x1792	45	90
PID-P3060G-XXM-RH	Red light source, Half-polarized lens cover	CMOS	Global	3072x2048	40	90
PID-P3060G-XXM-RF	Red light source, Full-polarized lens cover	CMOS	Global	3072x2048	40	90
PID-P3060G-XXM-WN	White light source, Normal lens cover	CMOS	Global	3072x2048	40	90
PID-P3060G-XXM-BH	Blue light source, Half-polarized lens cover	CMOS	Global	3072x2048	40	90
PID-P3060G-XXM-BF	Blue light source, Full-polarized lens cover	CMOS	Global	3072x2048	40	90

Lens focal	6/8/12/16/25mm(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	GbE (gigabit 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, Fins UDP etc.
Sighting device	Red light indicator
Dimensions	82mm × 55mm × 53mm(Without cable)
Reading distance	50-500mm
Weight	＜350g
Power consumption	＜18W
Power supply mode	Support 9V～26V, 2A 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-P3013G series

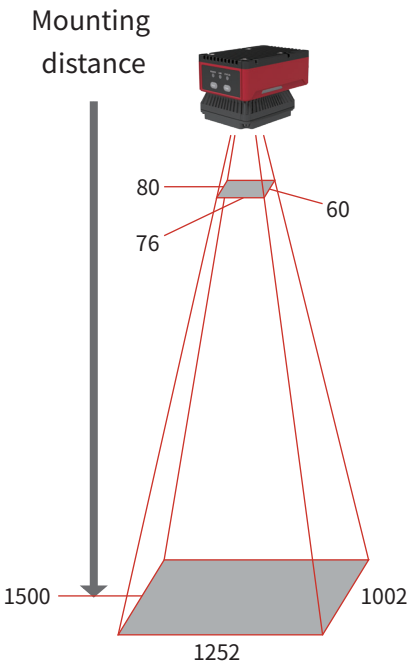
PID-P3013G-06M series

Minimum resolution Unit: mm

	Working distance	One-dimensional code	Two-dimensional code
Recognition resolution	80	0.07	0.15
	150	0.12	0.26
	230	0.17	0.39
	300	0.22	0.50
	400	0.29	0.67
	600	0.44	0.99
	1000	0.72	1.64
	1500	1.08	2.45

Vision Unit: mm

	Working distanc	Horizontal vision	Vertical vision
Range reading characteristics chart	80	76	60
	150	134	107
	230	200	160
	300	258	206
	400	341	273
	600	507	405
	1000	838	670
	1500	1252	1002



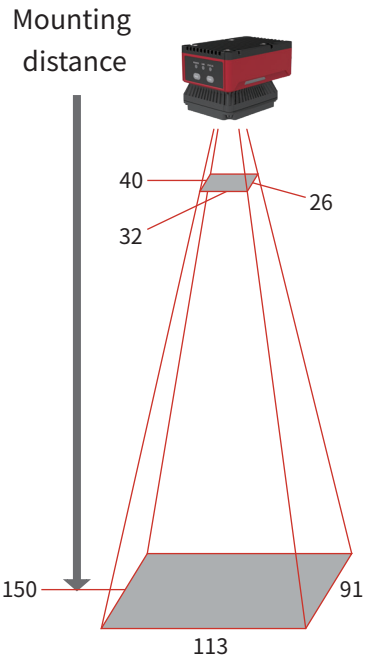
PID-P3013G-08M series

Minimum resolution Unit: mm

	Working distance	One-dimensional code	Two-dimensional code
Recognition resolution	80	0.05	0.11
	150	0.09	0.20
	230	0.13	0.29
	300	0.17	0.38
	400	0.22	0.50
	600	0.33	0.75
	1000	0.54	1.23
	1500	0.81	1.84

Vision Unit: mm

	Working distanc	Horizontal vision	Vertical vision
Range reading characteristics chart	80	57	46
	150	101	81
	230	151	121
	300	195	156
	400	257	205
	600	382	305
	1000	631	505
	1500	943	754



Range reading characteristics chart

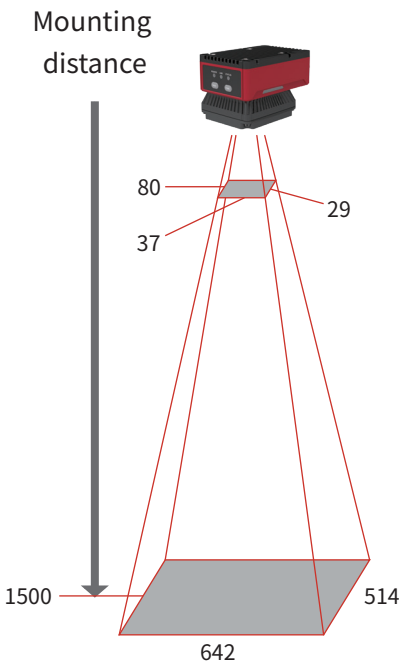
PID-P3013G-12M series

Minimum resolution Unit: mm

Recognition resolution	Working distance	One-dimensional code	Two-dimensional code
	80	0.04	0.07
	150	0.06	0.13
	230	0.09	0.20
	300	0.11	0.26
	400	0.15	0.34
	600	0.22	0.51
	1000	0.37	0.84
	1500	0.55	1.25

Vision Unit: mm

Range reading characteristics chart	Working distanc	Horizontal vision	Vertical vision
	80	37	29
	150	67	53
	230	101	81
	300	131	104
	400	173	139
	600	259	207
	1000	429	343
	1500	642	514



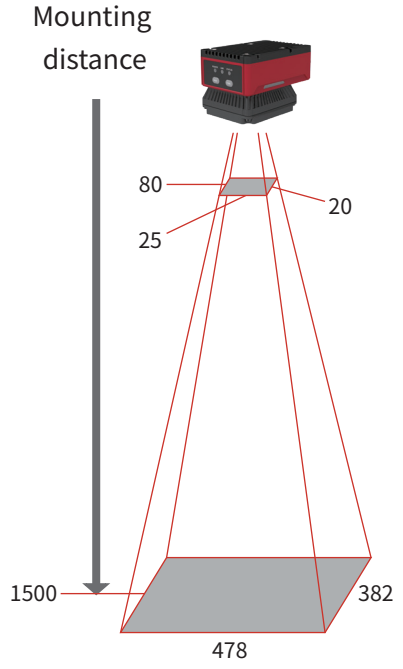
PID-P3013G-16M series

Minimum resolution Unit: mm

Recognition resolution	Working distance	One-dimensional code	Two-dimensional code
	80	0.04	0.05
	150	0.04	0.09
	230	0.06	0.14
	300	0.08	0.19
	400	0.11	0.25
	600	0.16	0.37
	1000	0.27	0.62
	1500	0.41	0.93

Vision Unit: mm

Range reading characteristics chart	Working distanc	Horizontal vision	Vertical vision
	80	25	20
	150	47	38
	230	73	58
	300	95	76
	400	127	101
	600	191	152
	1000	318	254
	1500	478	382



Range reading characteristics chart

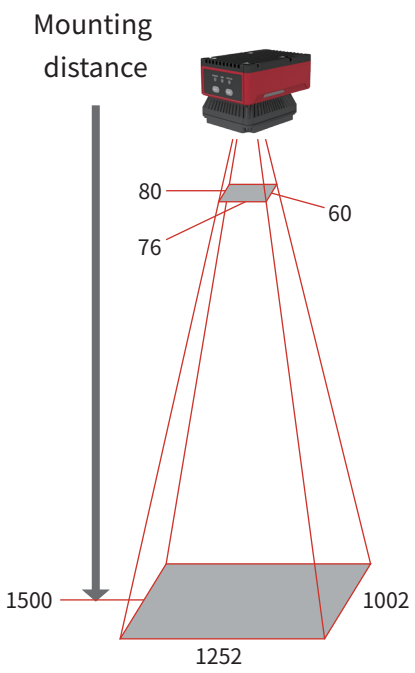
PID-P3013G-25M series

Minimum resolution Unit: mm

	Working distance	One-dimensional code	Two-dimensional code
Recognition resolution	150	0.04	0.05
	200	0.04	0.07
	250	0.04	0.09

Vision Unit: mm

	Working distanc	Horizontal vision	Vertical vision
Range reading characteristics chart	150	27	21
	200	37	30
	250	47	38



Range reading characteristics chart-P3016G series

PID-P3016G-06M series

Minimum resolution Unit: mm

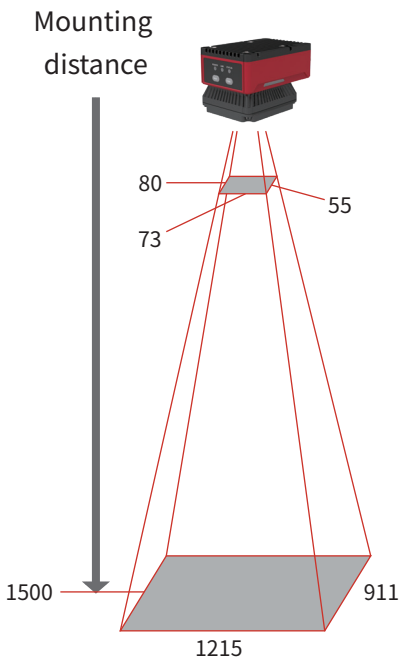
Recognition resolution

Working distance	One-dimensional code	Two-dimensional code
80	0.06	0.13
150	0.10	0.23
230	0.15	0.34
300	0.19	0.43
400	0.25	0.57
600	0.38	0.85
1000	0.62	1.41
1500	0.93	2.11

Vision Unit: mm

Range reading characteristics chart

Working distanc	Horizontal vision	Vertical vision
80	73	55
150	130	97
230	194	145
300	250	188
400	331	248
600	491	368
1000	813	610
1500	1215	911



PID-P3016G-08M series

Minimum resolution Unit: mm

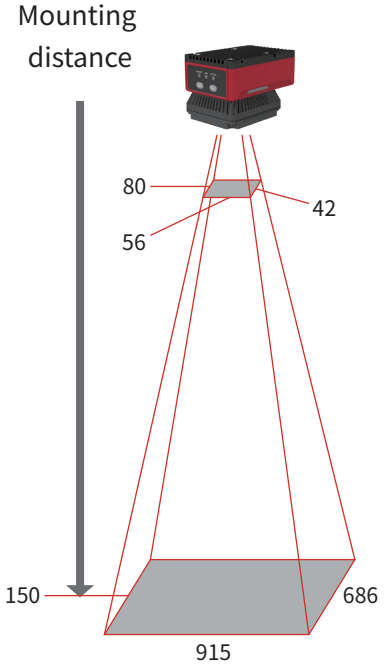
Recognition resolution

Working distance	One-dimensional code	Two-dimensional code
80	0.04	0.10
150	0.07	0.17
230	0.11	0.25
300	0.14	0.33
400	0.19	0.43
600	0.28	0.64
1000	0.47	1.06
1500	0.70	1.59

Vision Unit: mm

Range reading characteristics chart

Working distanc	Horizontal vision	Vertical vision
80	56	42
150	98	73
230	146	110
300	189	141
400	249	187
600	370	278
1000	612	459
1500	915	686



Range reading characteristics chart

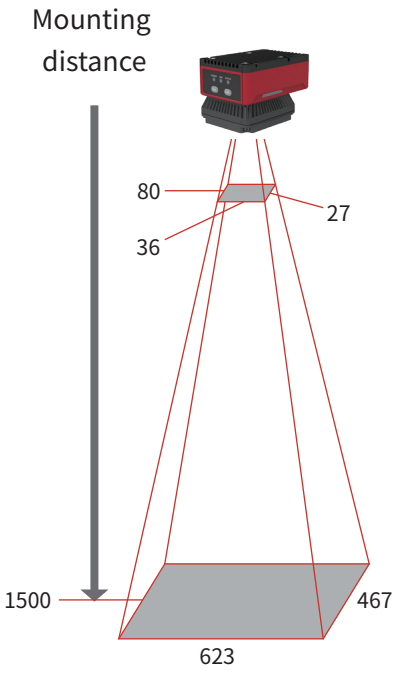
PID-P3016G-12M series

Minimum resolution Unit: mm

Recognition resolution	Working distance	One-dimensional code	Two-dimensional code
	80	0.04	0.06
	150	0.05	0.11
	230	0.07	0.17
	300	0.10	0.22
	400	0.13	0.29
	600	0.19	0.44
	1000	0.32	0.72
	1500	0.48	1.08

Vision Unit: mm

Range reading characteristics chart	Working distanc	Horizontal vision	Vertical vision
	80	36	27
	150	65	48
	230	98	73
	300	127	95
	400	168	126
	600	251	188
	1000	416	312
	1500	623	467



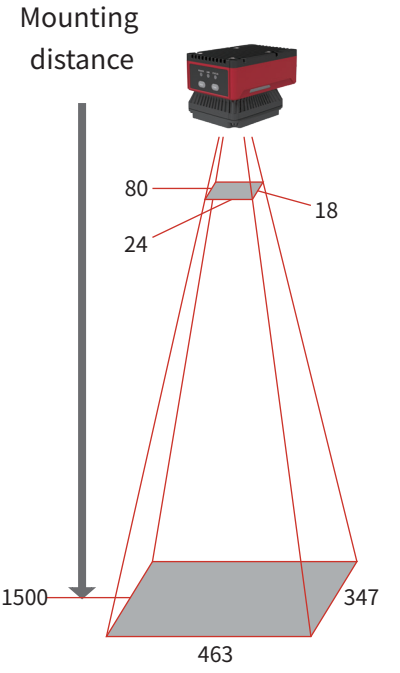
PID-P3016G-16M series

Minimum resolution Unit: mm

Recognition resolution	Working distance	One-dimensional code	Two-dimensional code
	80	0.04	0.04
	150	0.04	0.08
	230	0.05	0.12
	300	0.07	0.16
	400	0.09	0.21
	600	0.14	0.32
	1000	0.24	0.54
	1500	0.35	0.80

Vision Unit: mm

Range reading characteristics chart	Working distanc	Horizontal vision	Vertical vision
	80	24	18
	150	46	34
	230	70	53
	300	92	69
	400	123	92
	600	185	139
	1000	309	231
	1500	463	347



Range reading characteristics chart

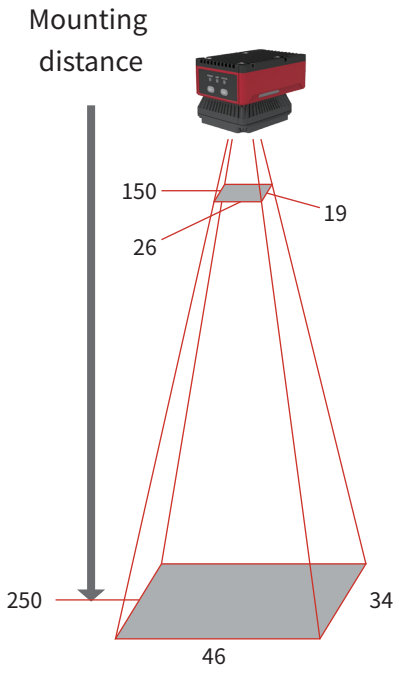
PID-P3016G-25M series

Minimum resolution Unit: mm

	Working distance	One-dimensional code	Two-dimensional code
Recognition resolution	150	0.04	0.05
	200	0.04	0.06
	250	0.04	0.08

Vision Unit: mm

	Working distance	Horizontal vision	Vertical vision
Range reading characteristics chart	150	26	19
	200	36	27
	250	46	34



Range reading characteristics chart-P3050G series

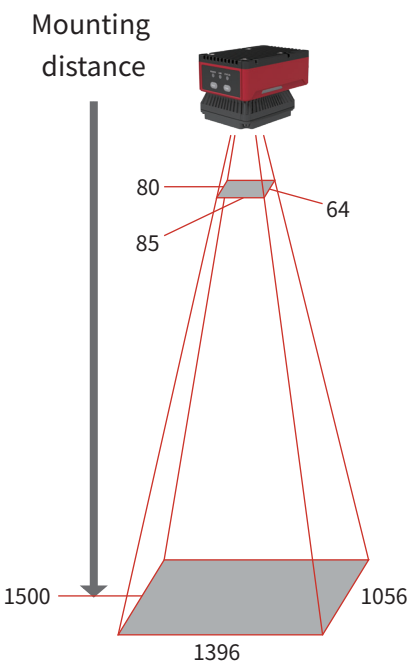
PID-P3050G-08M series

Minimum resolution Unit: mm

Recognition resolution	Working distance	One-dimensional code	Two-dimensional code
	80	0.04	0.09
	150	0.07	0.16
	230	0.10	0.24
	300	0.13	0.30
	400	0.18	0.40
	600	0.26	0.60
	1000	0.43	0.99
	1500	0.65	1.47

Vision Unit: mm

Range reading characteristics chart	Working distanc	Horizontal vision	Vertical vision
	80	85	64
	150	150	113
	230	224	169
	300	288	218
	400	381	288
	600	565	428
	1000	934	707
	1500	1396	1056



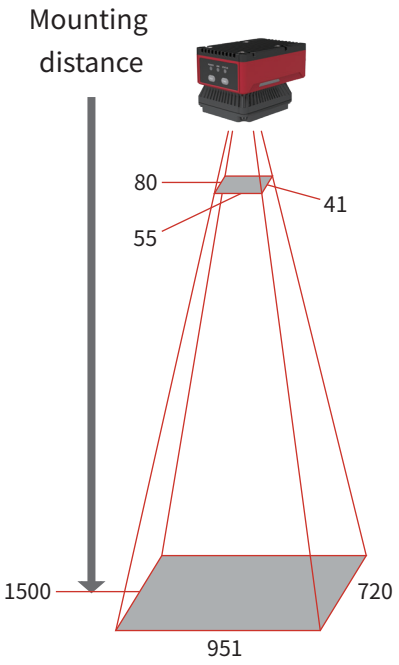
PID-P3050G-12M series

Minimum resolution Unit: mm

Recognition resolution	Working distance	One-dimensional code	Two-dimensional code
	80	0.04	0.06
	150	0.05	0.10
	230	0.07	0.16
	300	0.09	0.20
	400	0.12	0.27
	600	0.18	0.40
	1000	0.29	0.67
	1500	0.44	1.00

Vision Unit: mm

Range reading characteristics chart	Working distanc	Horizontal vision	Vertical vision
	80	55	41
	150	99	75
	230	149	113
	300	194	146
	400	257	194
	600	383	290
	1000	635	481
	1500	951	720



Range reading characteristics chart

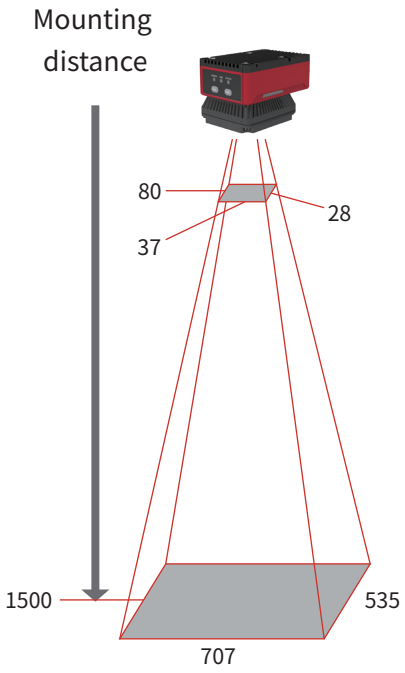
PID-P3050G-16M series

Minimum resolution Unit: mm

Recognition resolution	Working distance	One-dimensional code	Two-dimensional code
	80	0.04	0.04
	150	0.04	0.07
	230	0.05	0.11
	300	0.07	0.15
	400	0.09	0.20
	600	0.13	0.30
	1000	0.22	0.50
	1500	0.33	0.75

Vision Unit: mm

Range reading characteristics chart	Working distanc	Horizontal vision	Vertical vision
	80	37	28
	150	70	53
	230	108	81
	300	141	106
	400	188	142
	600	282	214
	1000	471	356
	1500	707	535



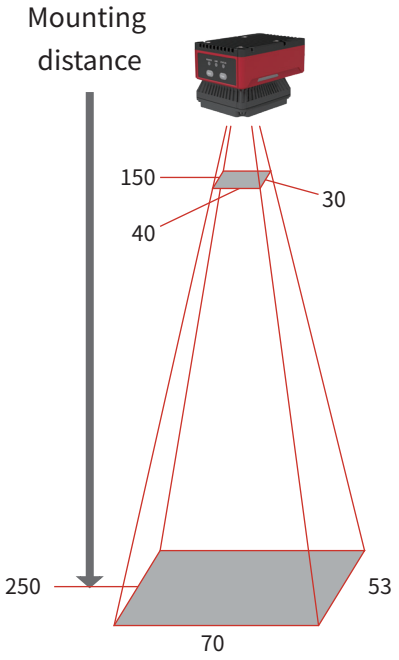
PID-P3050G-25M series

Minimum resolution Unit: mm

Recognition resolution	Working distance	One-dimensional code	Two-dimensional code
	150	0.04	0.04
	200	0.04	0.06
	250	0.04	0.07

Vision Unit: mm

Range reading characteristics chart	Working distanc	Horizontal vision	Vertical vision
	150	40	30
	200	55	42
	250	70	53



Range reading characteristics chart

PID-P3060G-08M series

Minimum resolution Unit: mm

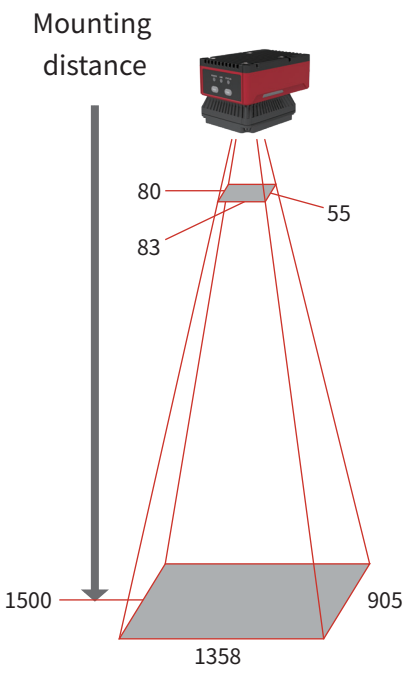
Recognition resolution

Working distance	One-dimensional code	Two-dimensional code
80	0.04	0.07
150	0.05	0.12
230	0.08	0.18
300	0.10	0.23
400	0.13	0.30
600	0.20	0.45
1000	0.33	0.74
1500	0.49	1.11

Vision Unit: mm

Range reading characteristics chart

Working distance	Horizontal vision	Vertical vision
80	83	55
150	146	97
230	218	145
300	280	187
400	370	247
600	550	366
1000	909	606
1500	1358	905



PID-P3060G-12M series

Minimum resolution Unit: mm

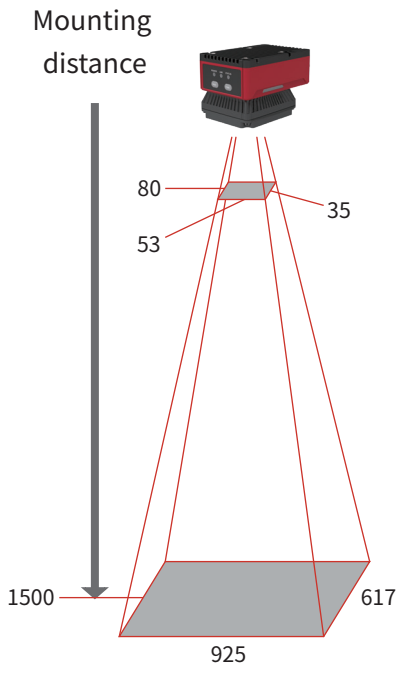
Recognition resolution

Working distance	One-dimensional code	Two-dimensional code
80	0.04	0.04
150	0.04	0.08
230	0.05	0.12
300	0.07	0.15
400	0.09	0.20
600	0.13	0.30
1000	0.22	0.50
1500	0.33	0.75

Vision Unit: mm

Range reading characteristics chart

Working distance	Horizontal vision	Vertical vision
80	53	35
150	96	64
230	145	97
300	188	125
400	250	166
600	373	248
1000	618	412
1500	925	617



Range reading characteristics chart

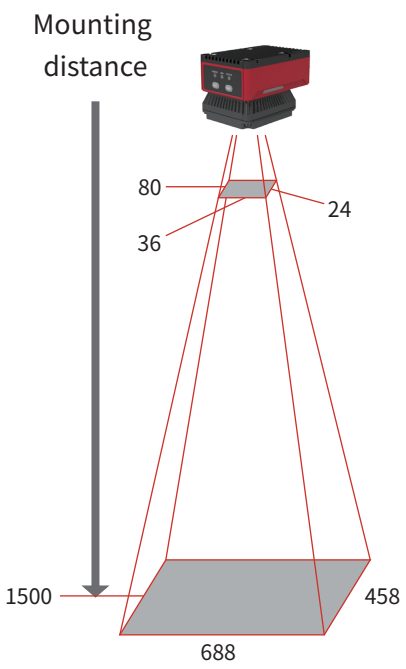
PID-P3060G-16M series

Minimum resolution Unit: mm

Recognition resolution	Working distance	One-dimensional code	Two-dimensional code
	80	0.04	0.04
	150	0.04	0.06
	230	0.04	0.09
	300	0.05	0.11
	400	0.07	0.15
	600	0.10	0.22
	1000	0.16	0.37
	1500	0.25	0.56

Vision Unit: mm

Range reading characteristics chart	Working distanc	Horizontal vision	Vertical vision
	80	36	24
	150	68	45
	230	105	70
	300	137	91
	400	183	122
	600	275	183
	1000	458	305
	1500	688	458



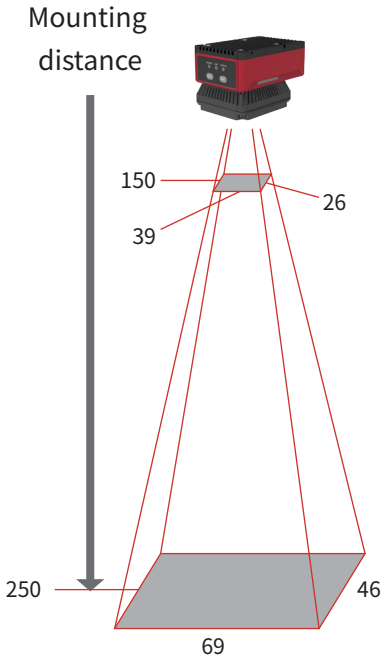
PID-P3060G-25M series

Minimum resolution Unit: mm

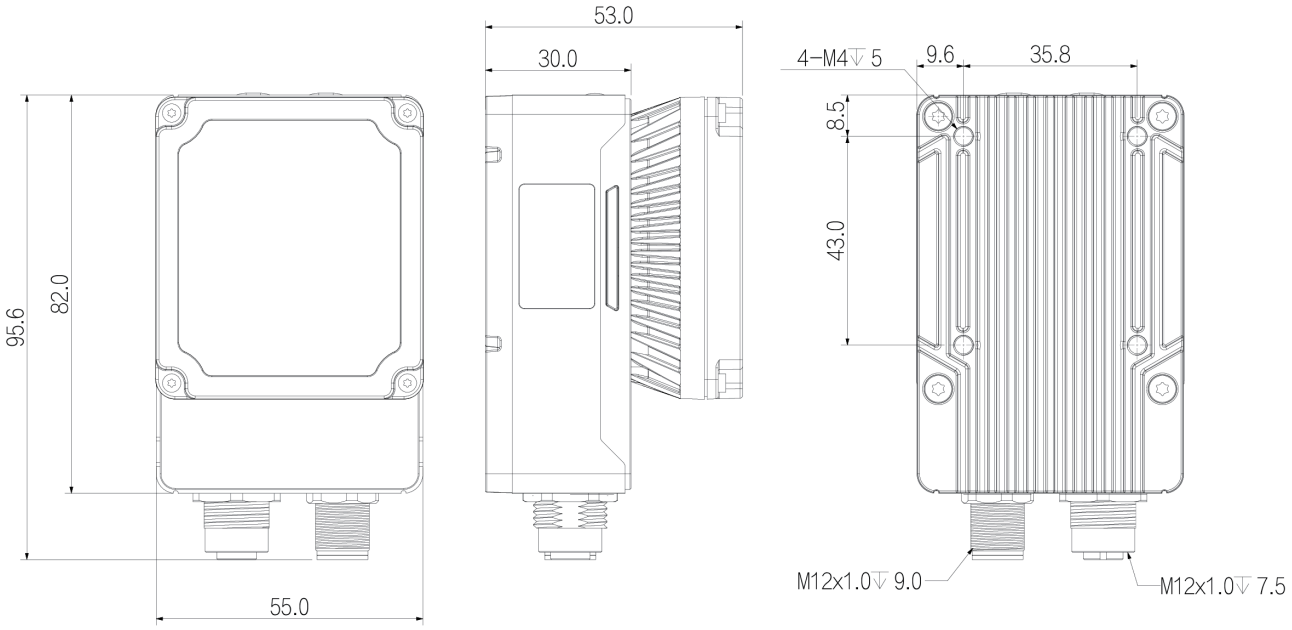
Recognition resolution	Working distance	One-dimensional code	Two-dimensional code
	150	0.04	0.04
	200	0.04	0.04
	250	0.04	0.06

Vision Unit: mm

Range reading characteristics chart	Working distanc	Horizontal vision	Vertical vision
	150	39	26
	200	54	36
	250	69	46



Dimensions



Interface definition

Pin	Signal	Description	Matching cable color
1	OPT_OUT2	Optocoupled isolation output 2	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	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	Orange
11	OPT_OUTO	Optocoupled isolation output 0	Blue
12	OPT_0UT1	Optocoupled isolation output 1	Brown
13		Shielded ground	White

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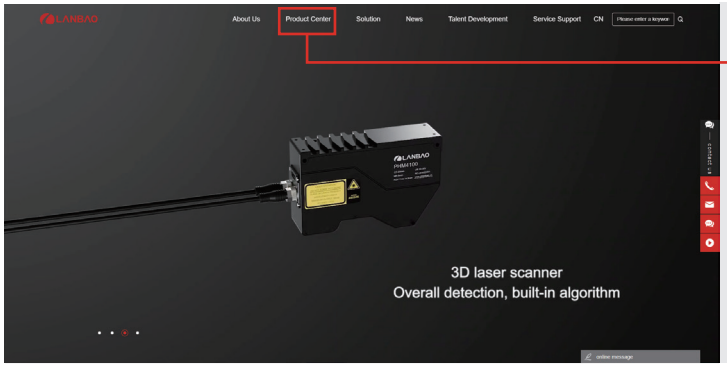

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