

# 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.



| 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.<br>Two-dimensional code: QR Code, Data Matrix, PDF417 etc. |
| Communication mode | SDK, TCP Client, FTP, TCP Server, RS232, Profinet, Modbus, Ether Net/IP, MCUpd, 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

#### Recognition resolution

| Working distance | One-dimensional code | Two-dimensional code |
|------------------|----------------------|----------------------|
| 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                 |

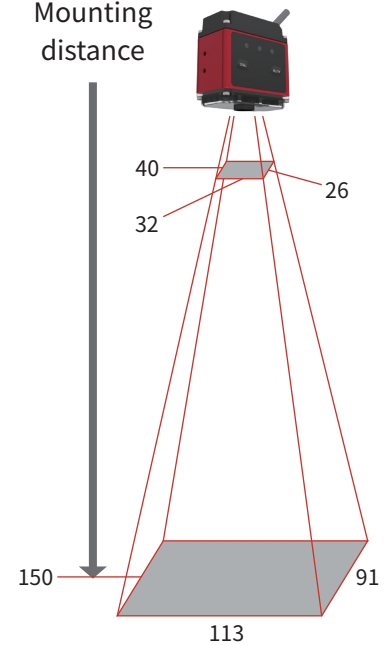
#### Vision

Unit: mm

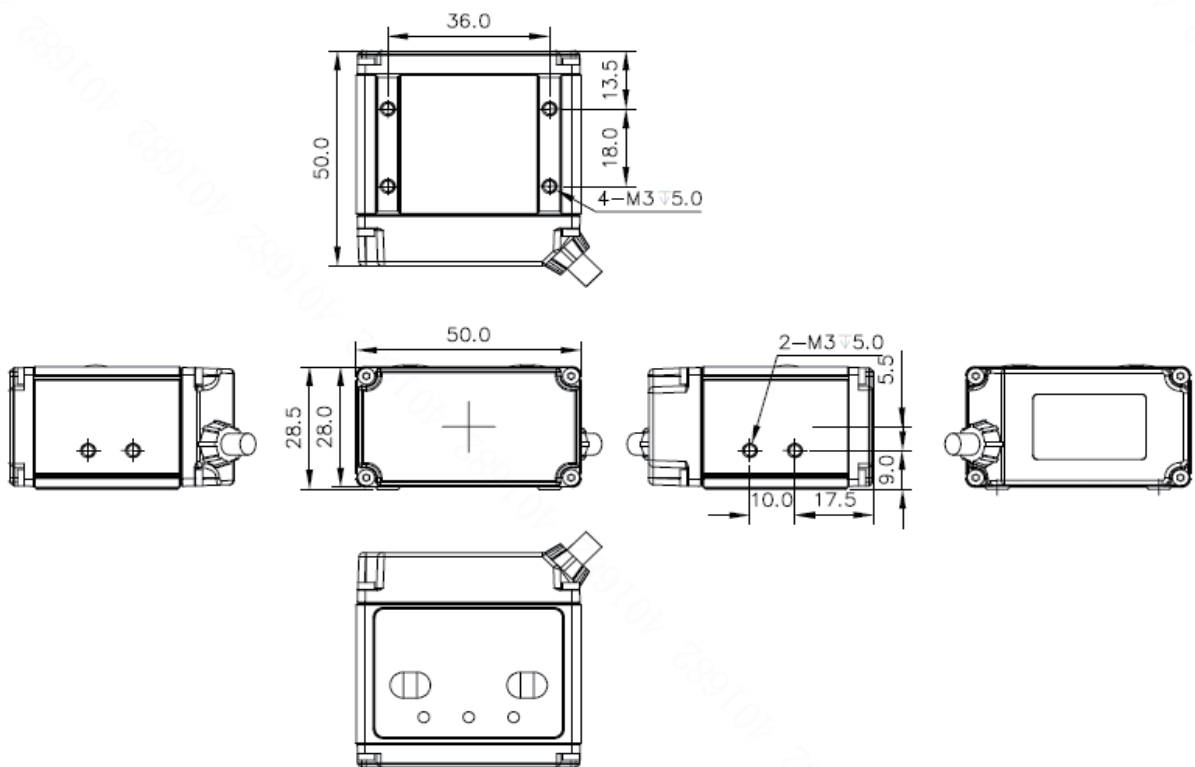
#### Range reading characteristics chart

| Working distance | Horizontal vision | Vertical vision |
|------------------|-------------------|-----------------|
| 40               | 32                | 26              |
| 70               | 54                | 43              |
| 110              | 84                | 67              |
| 130              | 100               | 80              |
| 150              | 113               | 91              |

Mounting distance



## 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_IN0   | 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          |

## Cable

