

# R3000 Series

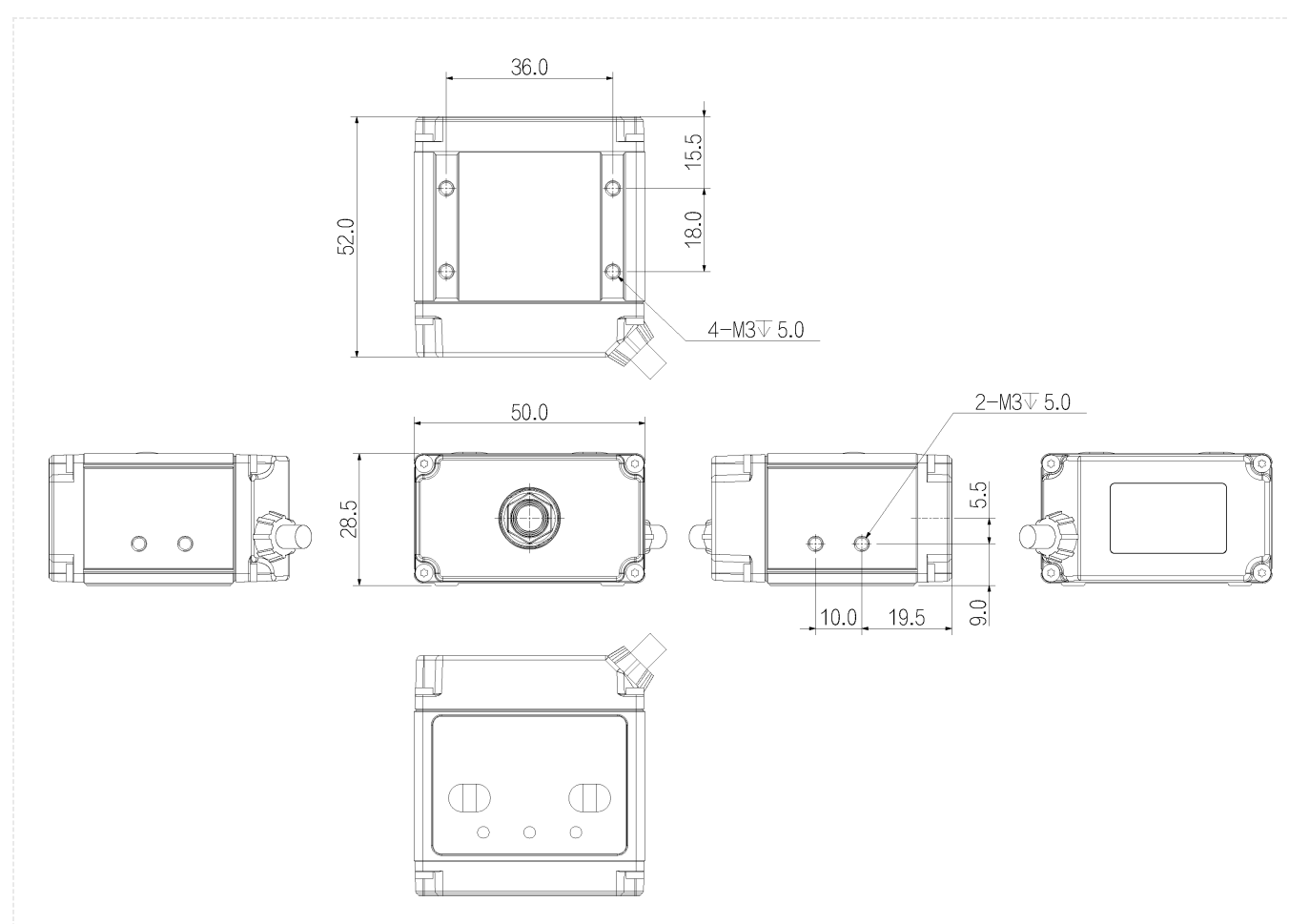
R3004MG-07H-WGG01E



## Features

- Built-in white light, integrated design;
- Support multiple trigger modes such as software trigger/external trigger/free run;
- Industrial Ethernet interface, provides 100M bandwidth;
- Rich IO interface such as Ethernet, RS232, GPIO;
- 9–26V DC power supply, consumption no more than 4.5W;
- Abundant decoding algorithms, 1D: CODE128/EAN/CODE39/CODE93/CODEBAR/ITF25 etc., 2D: DM/QR/DPM etc.

## Dimensions (mm)



Specification

|             |                        |                                                                                                                                                                                                                                       |
|-------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model       |                        | R3004MG-07H-WGG01E                                                                                                                                                                                                                    |
| Basic       | Resolution             | 640 × 512                                                                                                                                                                                                                             |
|             | Max. Frame rate        | 60 fps                                                                                                                                                                                                                                |
|             | Shutter Mode           | Global                                                                                                                                                                                                                                |
|             | Mono/Color             | Mono                                                                                                                                                                                                                                  |
|             | Lens Mount             | M8                                                                                                                                                                                                                                    |
|             | Trigger Mode           | Support multiple trigger modes such as software trigger/external trigger/free run;                                                                                                                                                    |
|             | Software               | EasyID                                                                                                                                                                                                                                |
|             | Certifications         | CE , KC                                                                                                                                                                                                                               |
|             | Function               | ID: Code 39/Code 93/Code128/CodaBar/EAN8/EAN13/UPCA/UPCE/ITF25/2of5 ( Industrial2of5 ) /standard25/GS1-128 etc. and 2D: Data Matrix/MQR/GS1 DM/GS1QR etc.; Quality Evaluation: ISO/IEC 29158(AIM-DPM), ISO/IEC 15415, ISO/IEC 15416 ) |
| Performance | Focal Length           | 6.72 mm                                                                                                                                                                                                                               |
|             | Working Distance       | 40-150 mm                                                                                                                                                                                                                             |
|             | Field of View          | 33×26 mm - 116 x 93 mm                                                                                                                                                                                                                |
|             | Max. Read Speed        | 45 codes/s                                                                                                                                                                                                                            |
|             | Min. Resolution        | 1D code 0.06 mm/ 2D code 0.13 mm                                                                                                                                                                                                      |
|             | Focus Control          | Manual control                                                                                                                                                                                                                        |
|             | Light Source Type      | White                                                                                                                                                                                                                                 |
| Port        | Connector              | Industrial-grade M12 connectors are Ethernet and GPIO interfaces                                                                                                                                                                      |
|             | Network Port           | 100M Ethernet                                                                                                                                                                                                                         |
|             | GPIO Interface         | 1× RS232 interface, 1x Opto-isolated input, 1× Opto-isolated output, 1 configurable input and output                                                                                                                                  |
|             | Communication Mode     | RS232, Ethernet                                                                                                                                                                                                                       |
|             | Communication protocol | SDK , TCP Client , TCP Server , FTP , RS232 , Profinet、 Modbus、 EtherNet/IP、 MC(SLMP)、 FINS/UDP、 FINS/TCP                                                                                                                             |
|             | LED Indicator          | Power indicator, Network indicator, Result indicator                                                                                                                                                                                  |
| Power       | Power Supply           | 9~26VDC, 0.5A input, suitable for industrial environment                                                                                                                                                                              |
|             | Power Consumption      | <4.5 W                                                                                                                                                                                                                                |
| Structure   | Product Dimensions     | 52 mm × 50 mm × 28 mm (Without cable)                                                                                                                                                                                                 |
|             | Net Weight             | <130 g                                                                                                                                                                                                                                |
|             | Protection             | IP65                                                                                                                                                                                                                                  |
|             | Casing Material        | Aluminum alloy + Front cover                                                                                                                                                                                                          |
| Environment | Operating Temperature  | -20℃ ~ +50℃                                                                                                                                                                                                                           |
|             | Operating Humidity     | 20% ~ 95%, Non condensing                                                                                                                                                                                                             |
|             |                        |                                                                                                                                                                                                                                       |

|  |                     |             |
|--|---------------------|-------------|
|  | Storage Temperature | -30℃ ~ +70℃ |
|--|---------------------|-------------|

## Connector Pin-out

12 pin-out on camera:

| Pin | Signal    | Description          | Cable Color                                                                       |              |
|-----|-----------|----------------------|-----------------------------------------------------------------------------------|--------------|
| 1   | Power     | Power                |  | Red          |
| 2   | POWER_GND | Power GND            |  | Black        |
| 3   | OPT_OUT0  | Opto-isolated output |  | Brown        |
| 4   | OPT_GND   | Opto-isolated GND    |  | Purple white |
| 5   | OPT_IN0   | Opto-isolated input  |  | Yellow       |
| 6   | GPIO      | Configurable IO      |  | Blue         |
| 7   | MD1_P     | RJ45 port            |  | Green        |
| 8   | MD1_N     | RJ45 port            |  | Green white  |
| 9   | MD0_P     | RJ45 port            |  | Orange       |
| 10  | MD0_N     | RJ45 port            |  | Orange white |
| 11  | RS232_RXD | Received data        |  | Purple       |
| 12  | RS232_TXD | Transmit data        |  | Grey         |

12-pin assignment on camera

