

# R4000 Series

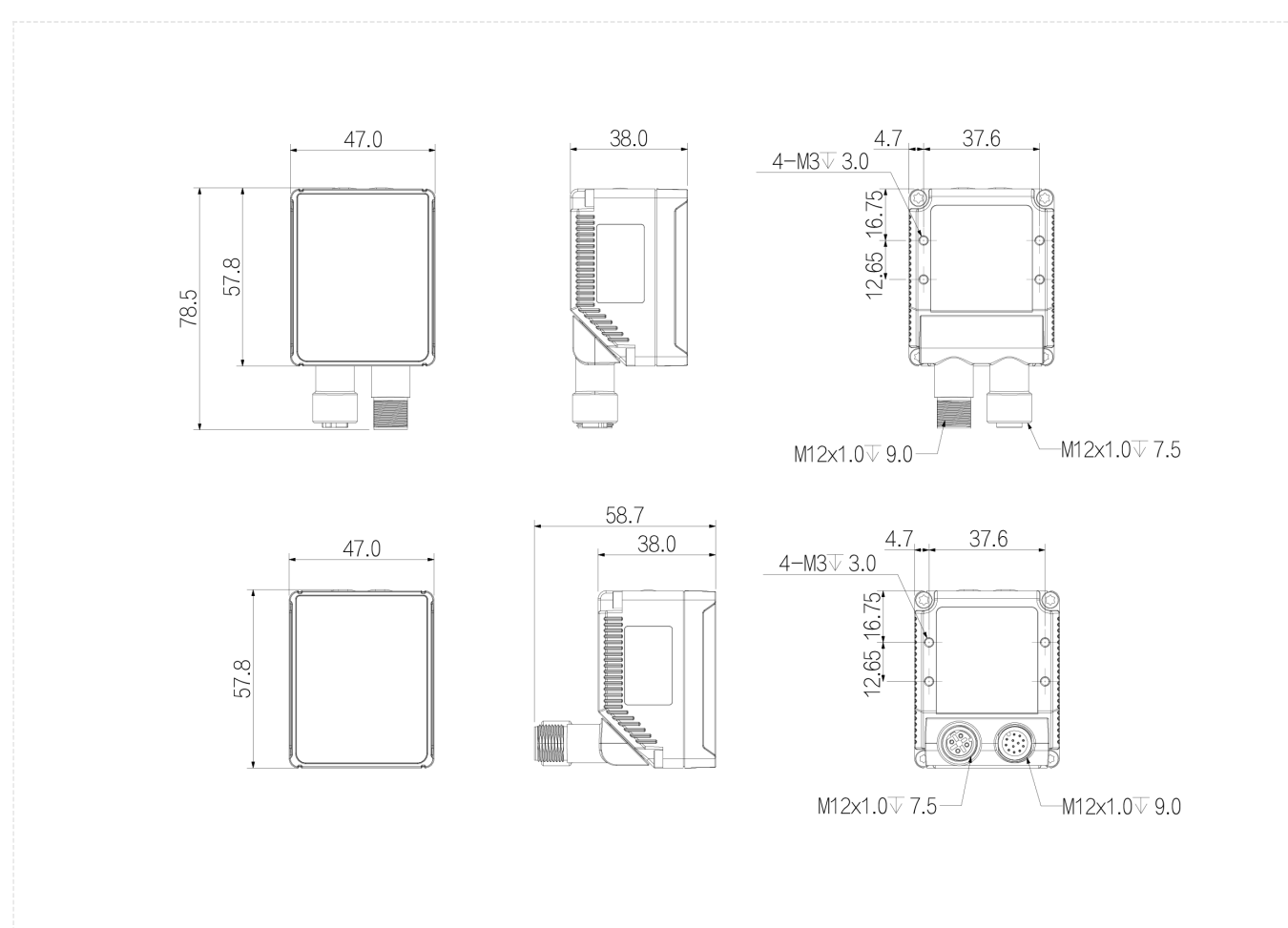
## R4013MG-12M-WGG01E



### Features

- Light-integrated design makes red/white/blue illumination optional, support control separately
- Support different focal lengths, electrical auto focus and one-click auto training
- 100M Ethernet interface, IP65 protection level
- Abundant IO interfaces such as Ethernet, RS232, GPIO, support multiple communication protocols
- Support various code formats and evaluations of code quality
- Built-in deep-learning based code reading algorithms and multi-parameters polling to ensure effects of complex applications

### Dimensions (mm)



## Specification

|             |                        |                                                                                                                                                                                                                                       |
|-------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model       |                        | R4013MG-12M-WGG01E                                                                                                                                                                                                                    |
| Basic       | Resolution             | 1280 × 1024                                                                                                                                                                                                                           |
|             | Max. Frame rate        | 60 fps                                                                                                                                                                                                                                |
|             | Shutter Mode           | Global                                                                                                                                                                                                                                |
|             | Lens Mount             | M12, auto focus                                                                                                                                                                                                                       |
|             | Trigger Mode           | Software trigger/External trigger/Free run modes                                                                                                                                                                                      |
|             | 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           | 12mm                                                                                                                                                                                                                                  |
|             | Working Distance       | 50-500mm                                                                                                                                                                                                                              |
|             | Field of View (FOV)    | 64×51 mm ( working distance:150mm )                                                                                                                                                                                                   |
|             | Max. Read Speed        | 60 codes/s                                                                                                                                                                                                                            |
|             | Light Source Type      | White ( Difused/2 Channel Non-polarized )                                                                                                                                                                                             |
| Port        | Connector              | 2 Industrial connectors support Ethernet and GPIO                                                                                                                                                                                     |
|             | Network Port           | 100M Ethernet                                                                                                                                                                                                                         |
|             | GPIO Interface         | RS232, 2 Opto-isolated inputs and 3 Opto-isolated outputs                                                                                                                                                                             |
|             | 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,Ethernet,Result                                                                                                                                                                                                                 |
| Power       | Power Supply           | 9~26V DC, 1.5A input, suitable for industrial environment                                                                                                                                                                             |
|             | Power Consumption      | <5W                                                                                                                                                                                                                                   |
| Structure   | Product Dimensions     | 47mm×58mm×38mm(not including connector)                                                                                                                                                                                               |
|             | Net Weight             | <180 g                                                                                                                                                                                                                                |
|             | Protection             | IP65                                                                                                                                                                                                                                  |
|             | Casing Material        | Aluminum alloy + Front cover                                                                                                                                                                                                          |
| Environment | Operating Temperature  | -20℃ ~ +50℃                                                                                                                                                                                                                           |
|             | Operating Humidity     | 20% ~ 95%(no condensation)                                                                                                                                                                                                            |
|             | Storage Temperature    | -30℃ ~ +70℃                                                                                                                                                                                                                           |

## Connector Pin-out

12 pin-out on camera:

| Pin | Signal      | Description              | Cable Color                                                                       |              |
|-----|-------------|--------------------------|-----------------------------------------------------------------------------------|--------------|
| 1   | OPT_OUT2    | Opto-isolated output2    |  | Brown white  |
| 2   | RS232_TXD   | RS232 serial send        |  | Grey         |
| 3   | RS232_RXD   | RS232 serial receive     |  | Purple       |
| 4   | SIGNAL_GND  | RS232 serial GND         |  | Black white  |
| 5   | OPT_IN1     | Opto-isolated input1     |  | Yellow       |
| 6   | OPT_IN_GND  | Opto-isolated input GND  |  | Purple white |
| 7   | POWER       | Power                    |  | Red          |
| 8   | POWER_GND   | Power GND                |  | Black        |
| 9   | OPT_OUT_GND | Opto-isolated output GND |  | Green        |
| 10  | OPT_IN0     | Opto-isolated input0     |  | Orange       |
| 11  | OPT_OUT0    | Opto-isolated output0    |  | Blue         |
| 12  | OPT_OUT1    | Opto-isolated output1    |  | Brown        |
| -   | -           | Shield GND               |  | White        |

12-pin assignment on camera

