

# R7000 Series

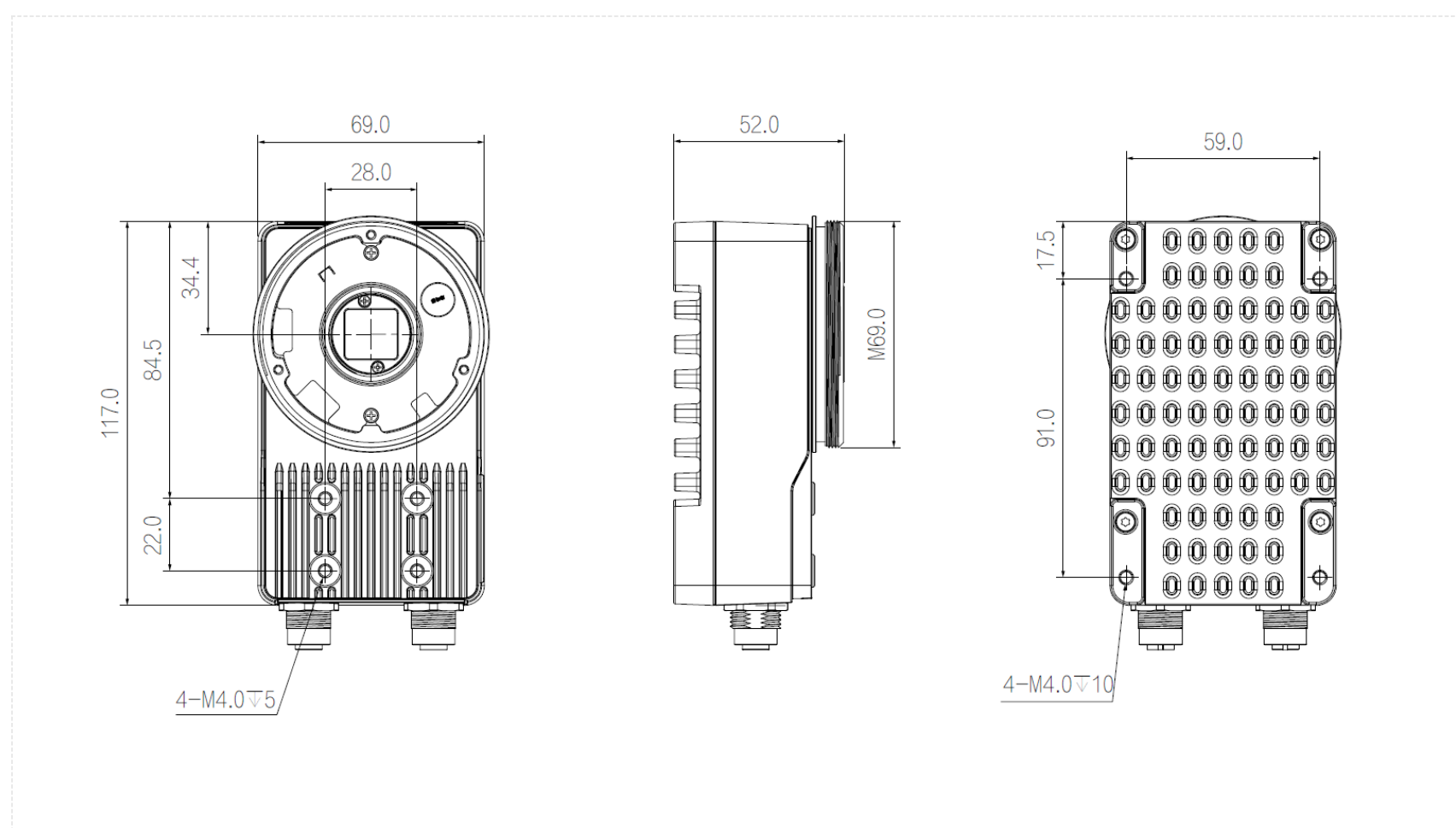
## R7201MG-00C-NGG01E



### Features

- • CMOS series product, high-speed capture
- • Built-in deep learning algorithm, efficient and powerful algorithms
- • Support software trigger/ hardware trigger/ free run modes
- • GigE, up to 1Gbps bandwidth
- • Abundant I/O interfaces, RS232, 3Opto-isolated input, 3Opto-isolated outputs
- • Industrial M12 connector, IP67

### Dimensions (mm)



## Specification

|             |                        |                                                                                                                                                                                                                                                  |
|-------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model       |                        | R7201MG-00C-NGG01E                                                                                                                                                                                                                               |
| Basic       | Resolution             | 5120 × 3840                                                                                                                                                                                                                                      |
|             | Max. Frame rate        | 15 fps                                                                                                                                                                                                                                           |
|             | Sensor Type            | 1" , CMOS                                                                                                                                                                                                                                        |
|             | Shutter Mode           | Global                                                                                                                                                                                                                                           |
|             | Pixel Size             | 2.5 μm × 2.5 μm                                                                                                                                                                                                                                  |
|             | Lens Mount             | C-MOUNT                                                                                                                                                                                                                                          |
|             | Trigger Mode           | Software trigger/External trigger/Free run modes                                                                                                                                                                                                 |
|             | Software               | EasyID                                                                                                                                                                                                                                           |
|             | Certifications         | CE , KC                                                                                                                                                                                                                                          |
|             | Function               | ID: Code 39 , Code 93 , Code 128 , CodaBar , EAN8 , EAN13 , UPCA , UPCE , ITF25 , 2of5 ( Industrial 2of5 ) , standard25 , GS1-128 etc. and 2D: QR/DM/MQR/GS1 DM/GS1 QR; Quality Evaluation: 1S0/IEC 29158(AIM-DPM), 1S0/IEC 15415, 1S0/IEC 15416 |
| Performance | Max. Read Speed        | 90 codes/s                                                                                                                                                                                                                                       |
| Port        | Connector              | 2 Industrial connectors support GigE and GPIO                                                                                                                                                                                                    |
|             | Network Port           | Code-A,GigE                                                                                                                                                                                                                                      |
|             | GPIO Interface         | 12Pins GPIO , RS232, 2 Opto-isolated inputs and 3 Opto-isolated outputs                                                                                                                                                                          |
|             | Communication Mode     | RS232, Ethernet                                                                                                                                                                                                                                  |
|             | Communication protocol | SDK , TCP Client , FTP , TCP Server , RS232 , Profinet、Modbus、EtherNet/IP、MCUdp、MCTcp、FinsUDP、FinsTCP、MELSEC                                                                                                                                     |
|             | LED Indicator          | Power,Ethernet,Trigger                                                                                                                                                                                                                           |
| Power       | Power Supply           | 24VDC, 1A input, suitable for industrial environment                                                                                                                                                                                             |
|             | Power Consumption      | <8.0W@DC24V (light not included)                                                                                                                                                                                                                 |
| Structure   | Product Dimensions     | 117 mm × 69 mm × 43 mm(lens mount & connector not included)                                                                                                                                                                                      |
|             | Net Weight             | < 550 g                                                                                                                                                                                                                                          |
|             | Protection             | IP67 (with lens cover)                                                                                                                                                                                                                           |
|             | Casing Material        | Aluminum alloy                                                                                                                                                                                                                                   |
| 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_IN1     | Opto-isolated input1     |  | Yellow       |
| 2   | OPT_IN2     | Opto-isolated input2     |  | Yellow white |
| 3   | OPT_OUT1    | Opto-isolated output1    |  | Brown        |
| 4   | OPT_OUT2    | Opto-isolated output2    |  | Brown white  |
| 5   | COM_RXD     | RS232 serial receive     |  | Purple       |
| 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  | COM_TXD     | RS232 serial send        |  | Grey         |

12-pin assignment on camera

