

# R3000 Series

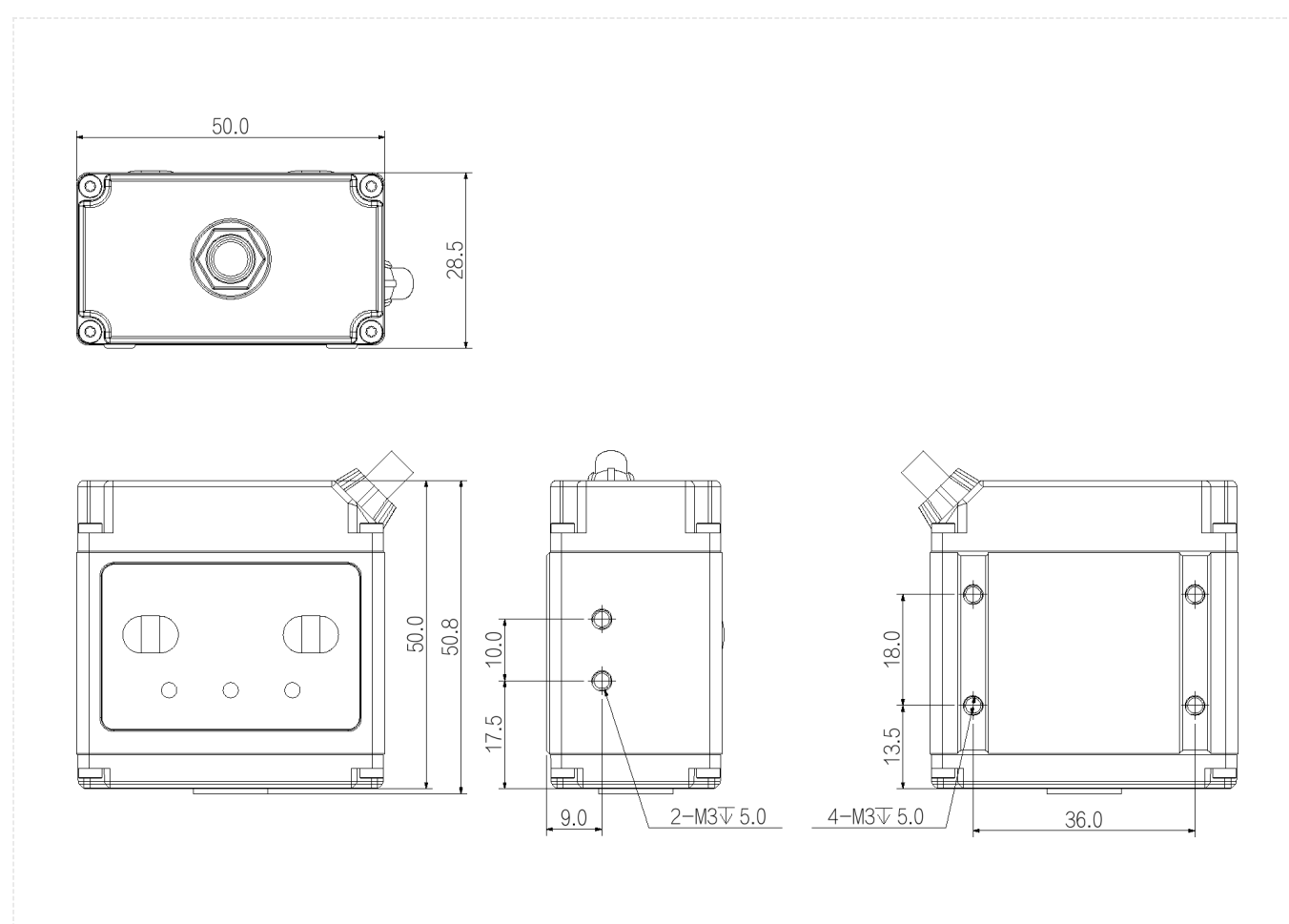
## RH3124MG111E



### Features

- Built-in Red/white dual 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 2.5W;
- Abundant decoding algorithms, 1D: CODE128/EAN/CODE39/CODE93/CODEBAR/ITF25 etc., 2D: DM/QR/DPM etc.

### Dimensions (mm)



Specification

|             |                        |                                                                                                                                                                                                                                       |
|-------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model       |                        | RH3124MG111E                                                                                                                                                                                                                          |
| Basic       | Resolution             | 1280 × 960                                                                                                                                                                                                                            |
|             | Max. Frame rate        | 20 fps                                                                                                                                                                                                                                |
|             | Shutter Mode           | Global                                                                                                                                                                                                                                |
|             | Mono/Color             | Mono                                                                                                                                                                                                                                  |
|             | 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           | 6.72mm                                                                                                                                                                                                                                |
|             | Working Distance       | 35-150 mm                                                                                                                                                                                                                             |
|             | Field of View          | 26 × 20 mm - 88 × 66 mm                                                                                                                                                                                                               |
|             | Max. Read Speed        | 20 codes/s                                                                                                                                                                                                                            |
|             | Min. Resolution        | 1D: 0.05mm/2D: 0.09mm                                                                                                                                                                                                                 |
|             | Focus Control          | Manual control                                                                                                                                                                                                                        |
|             | Light Source Type      | Red/white dual light                                                                                                                                                                                                                  |
| Port        | Connector              | Industrial M12 connector, support Ethernet and GPIO                                                                                                                                                                                   |
|             | Network Port           | 100M Ethernet                                                                                                                                                                                                                         |
|             | GPIO Interface         | RS232, 1Opto-isolated input, 1Opto-isolated output,1configurable input/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,Ethernet,Result                                                                                                                                                                                                                 |
| Power       | Power Supply           | 9~26VDC, 0.5A input, suitable for industrial environment                                                                                                                                                                              |
|             | Power Consumption      | < 2.0 W                                                                                                                                                                                                                               |
| Structure   | Product Dimensions     | 50 mm × 50 mm × 28 mm(cable not included)                                                                                                                                                                                             |
|             | Net Weight             | <130 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   | Power     | Power                | <div></div> | Red          |
| 2   | POWER_GND | Power GND            | <div></div> | Black        |
| 3   | OPT_OUT0  | Opto-isolated output | <div></div> | Brown        |
| 4   | OPT_GND   | Opto-isolated GND    | <div></div> | Purple white |
| 5   | OPT_IN0   | Opto-isolated input  | <div></div> | Yellow       |
| 6   | GPIO      | Configurable IO      | <div></div> | Blue         |
| 7   | MD1_P     | RJ45 port            | <div></div> | Green        |
| 8   | MD1_N     | RJ45 port            | <div></div> | Green white  |
| 9   | MD0_P     | RJ45 port            | <div></div> | Orange       |
| 10  | MD0_N     | RJ45 port            | <div></div> | Orange white |
| 11  | RS232_RXD | Received data        | <div></div> | Purple       |
| 12  | RS232_TXD | Transmit data        | <div></div> | Grey         |

12-pin assignment on camera

