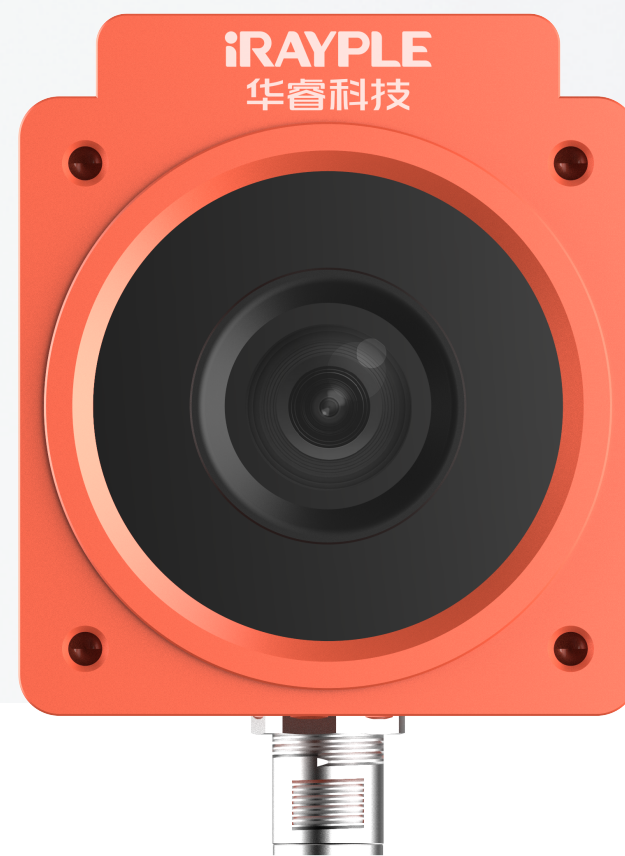


# AGV Code Reader

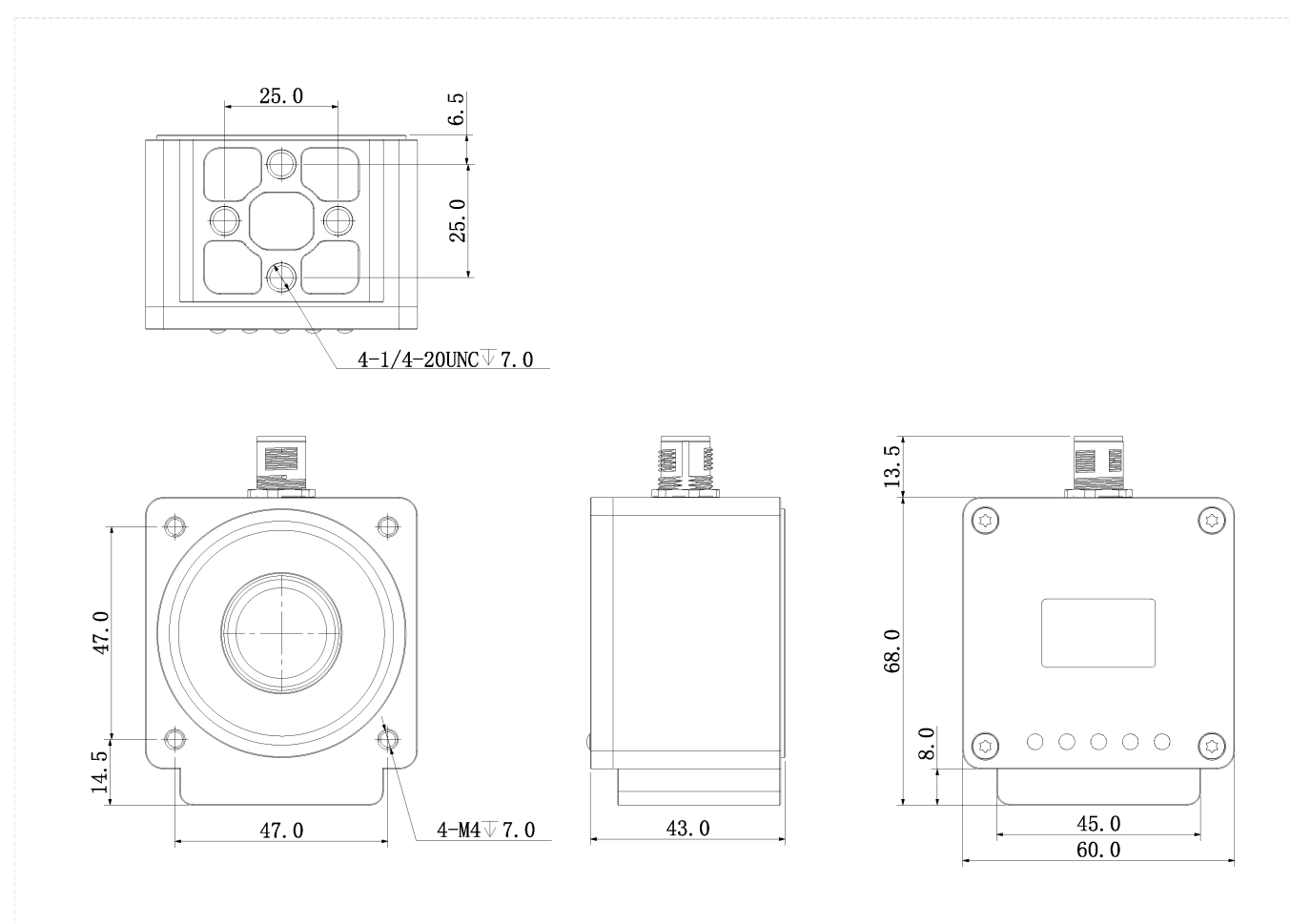
## R3138MG010E



### Features

- High performance decode algorithm, can be applied when DM code is under condition of dirty/defect/low contrast during operation.
- Embedded decode algorithm. High speed/accuracy.
- Support DM-12&DM-14 and DM code array.
- Embedded aviation plug, abundant IO interfaces.
- 5-way indicator for debug and camera status monitoring.
- Support multiple UserSet parameter save/load/switch.
- Apply M12 FA lens, supports locating DM code in large FOV.

### Dimensions (mm)



Specification

|             |                        |                                                                |
|-------------|------------------------|----------------------------------------------------------------|
| Model       |                        | R3138MG010E                                                    |
| Basic       | Max. Frame rate        | 120 fps                                                        |
|             | Sensor Type            | 1/4" CMOS                                                      |
|             | Shutter Mode           | Global                                                         |
|             | Pixel Size             | 5.4 μm × 5.4 μm                                                |
|             | Mono/Color             | Mono                                                           |
|             | Lens Mount             | M12                                                            |
|             | Trigger Mode           | Single Frame trigger/Software trigger/Free run mode            |
|             | Software               | SVStudio                                                       |
|             | Certifications         | CE , FCC , KC                                                  |
|             | Function               | DM-12&DM-14 , DM4x4                                            |
| Performance | Focal Length           | 3.37 mm                                                        |
|             | Working Distance       | 100 mm                                                         |
|             | Field of View          | 110 mm × 93 mm                                                 |
|             | Max. Read Speed        | 125 code/s                                                     |
|             | Max. Operating Speed   | 3 m/s                                                          |
|             | Focus Control          | Stationarytype                                                 |
|             | Light Source Type      | WhiteLed                                                       |
|             | Depth of Field (DoF)   | ±20mm                                                          |
|             | Angular Accuracy       | 0.1°                                                           |
|             | Displacement Accuracy  | 0.1mm                                                          |
| Port        | Connector              | 1eaM12connector                                                |
|             | Network Port           | 100M Ethernet                                                  |
|             | GPIO Interface         | 1 opto-isolated input , 1 opto-isolated output                 |
|             | Communication Mode     | 100MEthernet、RS485                                             |
|             | Communication protocol | SDK , Serial , TCPServer , TCPClient                           |
|             | LED Indicator          | 5LEDindicator , SYS、NET、Triggerand2user-definedLED             |
| Power       | Power Supply           | DC24V±10%                                                      |
|             | Power Consumption      | Disableillumination:<3.5W@24VDC Enableillumination:<7.5w@24VDC |
| Structure   | Product Dimensions     | 60mm×60mm×43mm(Excludedinterfaceport)                          |
|             | Packaging Dimensions   | 164 mm × 122 mm × 91 mm                                        |
|             | Net Weight             | <225 g                                                         |
|             | Gross Weight           | <350 g                                                         |

|             |                       |                             |
|-------------|-----------------------|-----------------------------|
| Model       |                       | R3138MG010E                 |
| Structure   | Protection            | IP65                        |
|             | Casing Material       | aluminum alloy              |
| Environment | Operating Temperature | -20℃ ~ +50℃                 |
|             | Operating Humidity    | 20% ~ 95% , No condensation |
|             | Storage Temperature   | -30℃ ~ +80℃                 |

## Connector Pin-out

| No. | Signal      | Description                 |
|-----|-------------|-----------------------------|
| 1   | DC24V       | VCC(+)                      |
| 2   | GND         | GND                         |
| 3   | OPTO_OUT    | Opto output                 |
| 4   | OUT_COM     | Opto output GND             |
| 5   | OPTO_IN     | Opto input                  |
| 6   | IN_COM      | Opto input GND              |
| 7   | MDI1+       | 100Mbps signal MDI1+        |
| 8   | MDI1-       | 100Mbps signal MDI1-        |
| 9   | MDI0+       | 100Mbps signal MDI0+        |
| 10  | MDI0-       | 100Mbps signal MDI0-        |
| 11  | RS485+/CAN+ | RS485 signal+ / CAN signal+ |
| 12  | RS485-/CAN- | RS485 signal- / CAN signal- |

