

# SS3000 Series

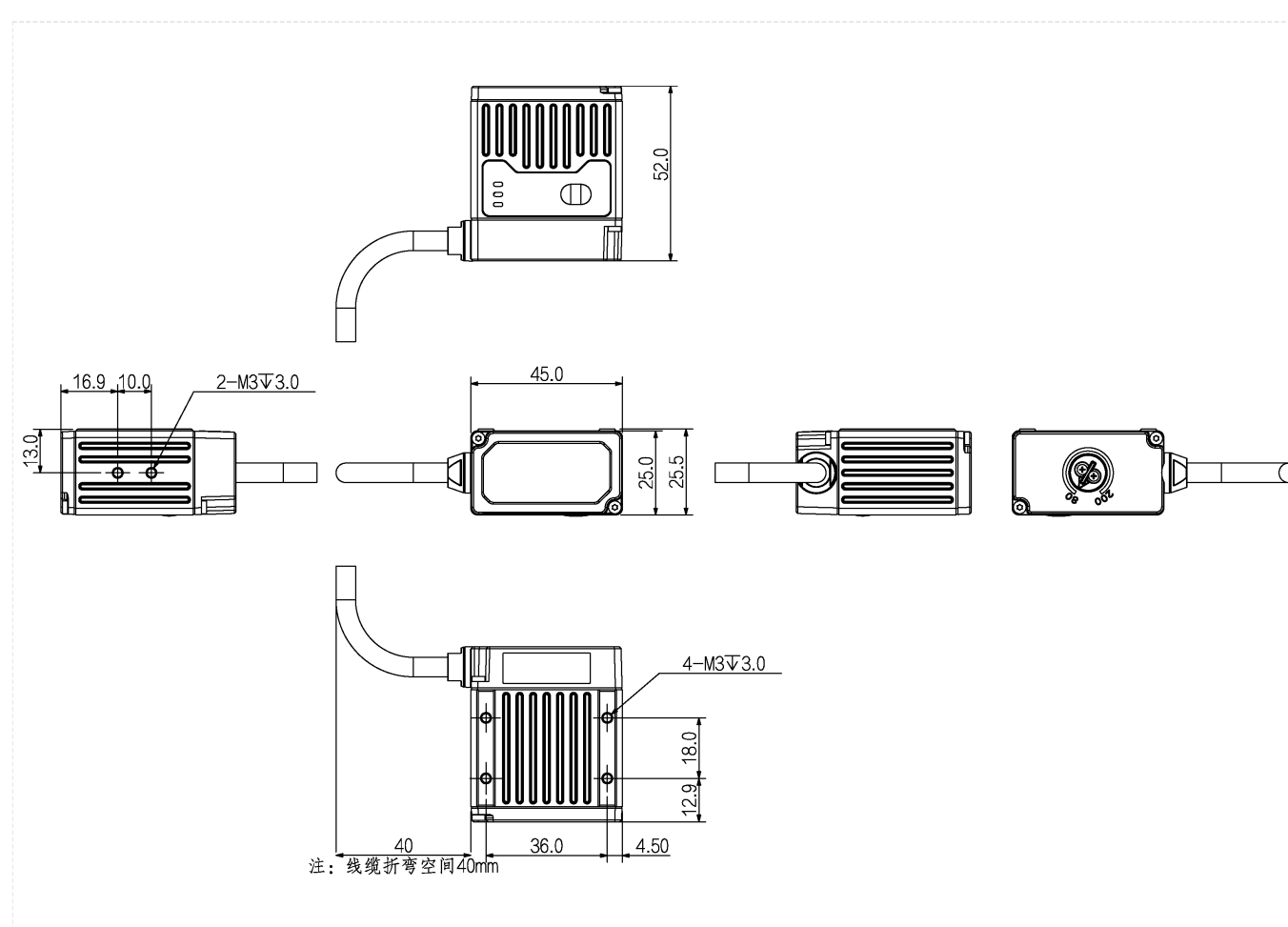
## SS3016PMG-16H-RGF01E



### Features

- Ultra-compact body design, can adapt to a variety of narrow installation space, and perfect integration with the machine equipment;
- Flexible and convenient manual focusing mode, which can cope with various close-range application scenarios;
- 100m industrial Ethernet interface, IP65 protection grade;
- Cross-platform Web access, guided configuration process, more convenient equipment debugging;
- Rich IO interface, Ethernet, RS232, GPIO interface, supporting multiple communication protocols;
- Built-in various easy-to-use operator tools can quickly realize various detection such as presence/absence, positive/negative, measurement, identification, etc.

### Dimensions (mm)



Specification

|             |                        |                                                                                                                                                                                                                                                                                                                                                   |
|-------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model       |                        | SS3016PMG-16H-RGF01E                                                                                                                                                                                                                                                                                                                              |
| Basic       | Resolution             | 1440×1080                                                                                                                                                                                                                                                                                                                                         |
|             | Max. Frame rate        | 60fps                                                                                                                                                                                                                                                                                                                                             |
|             | Shutter Mode           | Global                                                                                                                                                                                                                                                                                                                                            |
|             | Mono/Color             | Mono                                                                                                                                                                                                                                                                                                                                              |
|             | Trigger Mode           | Internal Trigger/External Trigger/Ethernet/Serial/Industrial Ethernet.                                                                                                                                                                                                                                                                            |
|             | Software               | EasyVS, Web                                                                                                                                                                                                                                                                                                                                       |
|             | Certifications         | CE, KC, UKCA, UL                                                                                                                                                                                                                                                                                                                                  |
|             | Function               | Location Tools: PatternMatch AI Tools: AI classification Exist Tools: FindLine、FindCircle、 BlobExist Count Tools: BlobCount Measure Tools: Grayscale area 、 Contrast、 Brightness、 EdgeWidthTool Detection Tools: ContourCompare Recognition Tools: DataCode、 BarCode、 OCR Logic Tools: LogicCheck、 ConditionCheck、 Mathematical、 StringComparison |
|             | Focal Length           | 16 mm                                                                                                                                                                                                                                                                                                                                             |
|             | Focus Control          | Manual control                                                                                                                                                                                                                                                                                                                                    |
|             | Light Source Type      | Red polarization                                                                                                                                                                                                                                                                                                                                  |
| Performance | Working Distance       | 80 - 200 mm                                                                                                                                                                                                                                                                                                                                       |
|             | Field of View (FOV)    | 21 × 16 mm - 58 × 44 mm                                                                                                                                                                                                                                                                                                                           |
| Port        | Connector              | Industrial-grade M12 connectors are Ethernet and GPIO interfaces                                                                                                                                                                                                                                                                                  |
|             | Network Port           | 100M Ethernet                                                                                                                                                                                                                                                                                                                                     |
|             | GPIO Interface         | 1x RS232 interface, 1x Opto-isolated input, 1x Opto-isolated output, 1 configurable input and output                                                                                                                                                                                                                                              |
|             | Communication Mode     | RS232, Ethernet                                                                                                                                                                                                                                                                                                                                   |
|             | Communication protocol | TCP Client, TCP Server, UDP, FTP, RS232, Profinet、 Modbus TCP、 EtherNet/IP                                                                                                                                                                                                                                                                        |
|             | LED Indicator          | Power indicator, Network indicator, Result indicator                                                                                                                                                                                                                                                                                              |
| Power       | Power Supply           | Support 9~26VDC, 1A input, suitable for industrial environment                                                                                                                                                                                                                                                                                    |
|             | Power Consumption      | <8.8W                                                                                                                                                                                                                                                                                                                                             |
| Structure   | Product Dimensions     | 45.0mm × 52.0mm × 25.5mm(Without cable)                                                                                                                                                                                                                                                                                                           |
|             | Net Weight             | < 140 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

