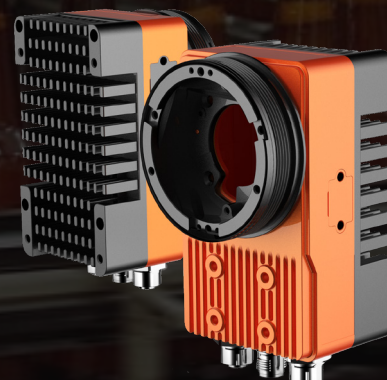


## ▲ DH-MV-SI5A20MG000E

- Powerful intel platform, easy for secondary development
- 4G memory and 64G SSD internal storage
- Software trigger/Hardware trigger/Free run mode
- Industrial grade M12 connector
- 1Gbps Ethernet industrial interface, max 100m transmission



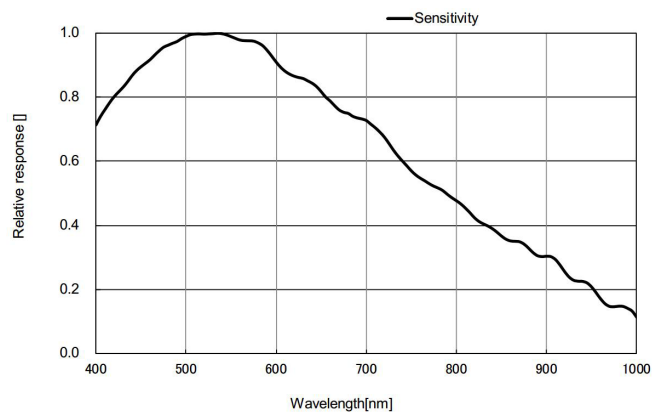
### Specification

| Model              | Sensor | Sensor type | Shutter | Resolution  | Frame rate<br>( fps ) | Bit depth | Interface | Mono/Color | Pixel size<br>( μ m ) | Sensor size |
|--------------------|--------|-------------|---------|-------------|-----------------------|-----------|-----------|------------|-----------------------|-------------|
| DH-MV-SI5A20MG000E | IMX226 | CMOS        | Rolling | 4000 x 3000 | 20                    | 12        | GigE      | Mono       | 1.85x1.85             | 1/1.7"      |

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Model             | DH-MV-SI5A20MG000E                                                          |
| Effective Pixels  | 12.4MP                                                                      |
| Operating System  | Win 10 X64 OS                                                               |
| Processor         | Intel Apollo Lake platform                                                  |
| SNR               | >38dB                                                                       |
| Dynamic Range     | 66dB                                                                        |
| Interface         | 3 physical interface: 1 GigE, 1 GPIO, 1 VGA & 1 USB port                    |
| GPIO              | Industrial M12 Connector: 3 Opto-isolated input and 3 Opto-isolated output  |
| Image Format      | Mono8/10/12                                                                 |
| Gain              | X1~X6                                                                       |
| Gamma             | Range from 0 to 4, support LUT                                              |
| Memory            | DDR4 4G Byte                                                                |
| Storage           | Internal storage: 64GB SSD                                                  |
| Exposure Time     | 33.6μS~1S                                                                   |
| Trigger Mode      | Software trigger/Hardware trigger/Free run mode                             |
| User Setting      | Support two sets of user-defined configurations                             |
| Dimensions        | 69mm×117mm×62mm                                                             |
| Weight            | <2kg                                                                        |
| LED indicator     | 5 status indicators: 1 system, 2 network and 2 user configurable indicators |
| Lens Mount        | Support C / M12 mount                                                       |
| Power Supply      | 24V power supply                                                            |
| Power Consumption | ≤30W                                                                        |
| Temperature       | Storage temperature: -30° C~ + 80° C; Operation temperature: 0° C~+50° C    |

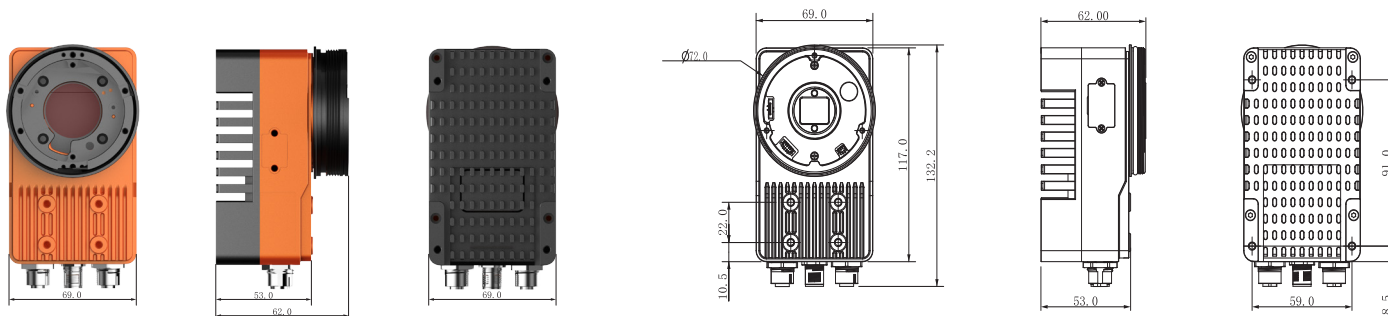
## Spectrogram

SI5A20MG000E

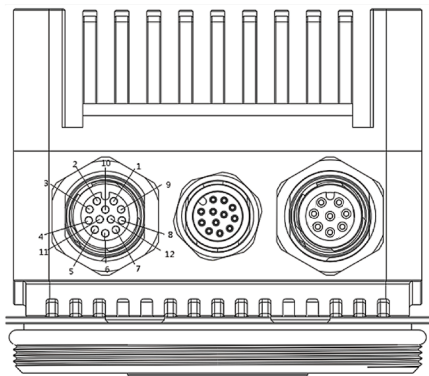


Quantum Efficiency Curve for Mono Sensor

## Dimensions



## IO Interface Instruction



| Pin | Signal      | Description              |
|-----|-------------|--------------------------|
| 1   | OPT_IN1     | Opto-isolated input 1    |
| 2   | OPT_IN2     | Opto-isolated input 2    |
| 3   | OPT_OUT1    | Opto-isolated output 1   |
| 4   | OPT_OUT2    | Opto-isolated output 2   |
| 5   | RXD RS232   | Serial port input        |
| 6   | OPT_IN_GND  | Opto-isolated in ground  |
| 7   | Power       | DC 24V input             |
| 8   | GND         | Power ground             |
| 9   | OPT_OUT_GND | Opto-isolated out ground |
| 10  | OPT_IN0     | Opto-isolated input 0    |
| 11  | OPT_OUT0    | Opto-isolated output 0   |
| 12  | TXD RS232   | Serial port output       |