

Model: **MARS4HW UW**

| Part Number                                 |                                                                     | Mars4HW UW-8-50                                                                                                           |
|---------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                                | Pixels                                                              | 4M                                                                                                                        |
|                                             | Resolution                                                          | 2048*2048                                                                                                                 |
|                                             | Frame Rate@Full Resolution                                          | 180                                                                                                                       |
|                                             | Frame Rate@Partial Resolution                                       | 2000FPS                                                                                                                   |
|                                             | Frame Rate Adjustment                                               | Adjustable                                                                                                                |
|                                             | Latency(ms)                                                         | 5.20                                                                                                                      |
|                                             | Type of Exposure                                                    | global                                                                                                                    |
|                                             | Exposure Speed                                                      | Settable                                                                                                                  |
| Track Performance and Range                 | Accuracy                                                            | ±0.25mm                                                                                                                   |
|                                             | Observation Distance (with 20mm diameter markers) <sup>[1][2]</sup> | 14m                                                                                                                       |
|                                             | Active Marker Supported                                             | Yes                                                                                                                       |
| Camera                                      | Lens Specification                                                  | 8mm                                                                                                                       |
|                                             | Field of View(FOV)                                                  | 74°*74° (in the air)<br>52°*52° (underwater)                                                                              |
|                                             | Aperture Adjustable                                                 | No                                                                                                                        |
|                                             | Focus Adjustable                                                    | No                                                                                                                        |
| LEDs                                        | Number                                                              | 24                                                                                                                        |
|                                             | Type                                                                | HLED                                                                                                                      |
|                                             | Brightness Adjustable                                               | Yes                                                                                                                       |
|                                             | Wavelength                                                          | 460nm                                                                                                                     |
| Interface and Power Supply                  | Connection Type                                                     | GigE/POE                                                                                                                  |
|                                             | Power Consumption                                                   | 26W, 24V power supply                                                                                                     |
|                                             | Sync Interface                                                      | Synchronization Interface Terminal                                                                                        |
|                                             | Sync Signal Output                                                  | Optional                                                                                                                  |
| Product Appearance and Operating Conditions | Shell Material                                                      | Metal                                                                                                                     |
|                                             | Size                                                                | 159mm*159mm*232.5mm                                                                                                       |
|                                             | Weight                                                              | 5.45kg (in the air)<br>1.76kg (underwater)                                                                                |
|                                             | Mounting Hole                                                       | N/A                                                                                                                       |
|                                             | Number of Mounting Holes                                            | N/A                                                                                                                       |
|                                             | Temperature Range                                                   | -20°C to 65°C                                                                                                             |
|                                             | Humidity                                                            | Under water                                                                                                               |
|                                             | Design water depth                                                  | 50 meters                                                                                                                 |
| Others                                      | Heat Dissipation                                                    | Fanless passive heat dissipation structure, for silent operation, minimal dust accumulation, and optimal heat dissipation |

**Key Features**

- Underwater pressure tested, corrosion-resistant and waterproof shell, adapted to a variety of water quality.
- Compact size, easy to take and install, can be arranged in a narrow space.
- In-house research and development ensuring outstanding quality control and dedicated after-sales support.

Note

[1] Observation distance depends on marker diameter.

[2] To increase distance, add light source, use bigger or active markers.

