



8 Otis Park Drive, Unit 4, Bourne, MA 02532

# INSPECTOR

A FULL OCEAN, 8K CAMERA SYSTEM

The **Inspector™** is a full-ocean-depth (6,500 m) 8K video camera system designed for high-end subsea cinematography, inspection, and scientific imaging. Built as a fiber-integrated imaging platform, Inspector delivers broadcast-quality 8K video, precision remote shading control, and robust integration with ROVs and human-occupied vehicles.

Unlike machine-vision systems, **Inspector™** is optimized for cinematic image quality, long-range inspection, and high-fidelity documentation, making it ideal for demanding deep-sea missions—from infrastructure inspection to archaeological documentation.

## IMAGING PERFORMANCE

|                |                                                  |
|----------------|--------------------------------------------------|
| Resolution:    | UHDTV2 8K (7680 × 4320),<br>DCI 8K (8192 × 4320) |
| Frame Rate:    | 23.98 – 60 fps                                   |
| Output:        | 10-bit Quad SDI                                  |
| Sensor Type:   | High resolution global shutter                   |
| Dynamic Range: | >67.bdB                                          |
| Color:         | Full color Imaging                               |
| Shutter:       | Global                                           |



## Key Features

- Full ocean depth rating: 6,500m
- 8K UHDTV2 / DCI 8K video output
- 10-bit SDI video pipeline
- Global shutter high-resolution sensor
- Up to 60 fps at 8K
- Fiber-optic telemetry system
- Remote shading control (cinematography-grade)
- 24–80 mm integrated optics
- Compact subsea camera head + topside recording system
- Proven deployment including RMS Titanic



Released: 05/19/2026

617.394.1188

Info@marineimagingtech.com



## OPTICS & FIELD OF VIEW

|               |                                      |
|---------------|--------------------------------------|
| Lens:         | Integrated 14-35mm or 24-105mm       |
| Applications: | Wide-area survey to close inspection |
| Port Type:    | Dome Port (deep-sea rated)           |
| FOV:          | Variable (dependent on zoom range)   |

## MECHANICAL & ENVIRONMENTAL

|                   |                                 |
|-------------------|---------------------------------|
| Depth Rating:     | 1000m/3000m/6,500m              |
| Housing Material: | Titanium / deep sea rated alloy |
| Form Factor:      | Compact camera head             |
| Deployment:       | ROV / HOV compatible            |
| Port:             | Dome optic                      |

## ELECTRICAL & INTERFACE

|               |                                   |
|---------------|-----------------------------------|
| Telemetry:    | Single mode fiber optic           |
| Video Output: | 10-bit Quad SDI over fiber        |
| Control:      | IP Control                        |
| Recording:    | Black Magic or Custom Software    |
| Power:        | 10 -36 VDC                        |
| Connector:    | MCBH for power and Optolink Fiber |

## CAMERA CONTROL & SHADING

Black balance adjustment  
Gamma Control  
Knee adjustment  
White balance & color shading  
Lens control (Focus, Iris, Zoom)

## APPLICATIONS

- Deep-sea cinematography
- High-resolution inspection
- Marine archaeology documentation
- Scientific imaging
- Offshore infrastructure survey
- Search and recovery operations



Released: 05/19/2026

617.394.1188

Info@marineimagingtech.com