NDAA Compliant


MillieOne

# Orca[M]

**Intelligence and image quality engineered for the subsea industries**

## Benefits

- AI Capabilities
- H.265 & H.264 Encoding
- 30:1 Optical Zoom
- Open Architecture

## Applications

- Inspection and Survey
- General Observation Tasks
- IMR Tasks
- Drill Support
- Pipeline Survey

For further information email:

**UK and Global:**
SEcamera.sales.uk@imenco.com

**Norway and Europe:**
SEcamera.sales.eu@imenco.com

**United States:**
SEcamera.sales.us@imenco.com

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FUTURE TECHNOLOGIES

## Overview

The Orca[M] introduces the next generation of subsea imaging with our MillieOne encoder, built upon the renowned SubVIS platform. This encoder brings advanced AI capabilities to the industry including, object detection, optical character recognition and ArUco code reading. As our most sophisticated encoder to date, MillieOne sets a new benchmark for intelligent subsea technology.

Imenco's philosophy is rooted in open architecture, similar to the approach that transformed smart phone technology. This ensures full integration with third-party control systems and gives users the freedom to develop custom software applications. You can tailor the system to meet your specific operational requirements, adding video analysis algorithms, image enhancement tools, and other functionalities on top of the core software.

The Orca[M] system leverage's image metadata to deliver significant operational advantages. One of its most innovative features is the ability for subsea devices to communicate automatically. For example, the camera can instruct lights to reduce intensity, ensuring optimal illumination without manual intervention.

Designed as a primary ROV camera, Orca[M] is equipped with a high-performance water correction lens system that guarantees exceptional image quality in demanding subsea environments.

## Technical Spec

| | |
|---|---|
| Video Resolution | 1080p@60/50/30/25, 720@60/50, 576@50/25 (H.264 H.265) |
| Image sensor | 1/2.8" type TypeSTARVIS2CMOS Sensor (Approx 2.13M Pixels) |
| Shutter type | Rolling sensor |
| Minimum Illumination | 0.009 Lux (ICR OFF) 0.00008 Lux (ICR ON) |
| Protocols | TCP/IP, UDP, IPv4/v6, HTTP. HTTPS, UPnP, RTP, RTSP, RTCP, DHCP, ARP, zero config |
| Latency (Glass to Glass) | ~150mS |
| Time sync | NTP |
| Control | Imenco API'S / ONVIF S |
| Optical Zoom | 30:1 |
| Front port type | Ivanoff-Rebikoff water correction lens system |
| AOV in water | Diagonal: 71°<br>Horizontal: 64° |
| Power Requirements | 24 VDC (10VDC – 36VDC) 10W |
| Standard connector | Subconn DBCR2013M / Seacon 5506-1508 |
| Depth rating | 3000/4500 msw (Glass/Acrylic) |
| Housing | Titanium |
| Main dimensions (ex conn.) | Diameter: 117mm (Main Body) 140mm (Front End)<br>Length: 226mm |
| Weight | In Water: 1.2 Kg<br>In Air: 5.0 Kg |