OE RANGE
BY IMENCO

Applications:

Marine Science

Manned Submersibles

HD Inspection and Survey

Observation and Situational Awareness

Vessel Hull Mount

OE14-522HDIP

HIGH DEFINITION, ETHERNET, PAN & TILT, ZOOM CAMERA

1080p / 720p / NTSC / PAL | 10:1 Zoom Lens | 230° Optical Viewing | Low latency streaming <150ms

The OE14-522 high definition, ethernet, pan & tilt zoom camera has been designed for use in subsea environments and is ideally suited to HD inspection & survey tasks, general observation & situational awareness tasks, marine science, (HOV) manned submersible deployment and vessel hull mount (research vessel and mega yacht) applications.

The OE14-522 high definition, ethernet, pan & tilt zoom camera is packaged within a robust 4500msw depth rated titanium alloy housing and features a unique gimbal head design, providing 230° angular coverage on the pan axis and 224° angular coverage on the tilt axis. The camera benefits from a custom engineered optical arrangement ensuring the image remains in focus through the complete range of movement on both axes. With a 10:1 optical zoom lens the OE14-522 will focus from as close as 10mm from the front port to infinity, making it the perfect choice for both close up and stand-off inspections.

The OE14-522 high definition, ethernet camera has been designed using the latest imaging technology and features a 1/3” CMOS type progressive scan sensor. The camera can produce up to four, H.264/MPEG-4 compressed, RTSP and MPEG-TS complaint video streams. Camera functions can be controlled through Imenco’s GUI (Graphical User Interface) or by proprietary command protocol transmitted in HTTP format over a 10/100 Base-Tx Fast Ethernet Network connection.

An optional flange mount housing assembly is also available for integration into research vessels and mega yacht hulls.

Contact us for additional information or to get a quotation. Send an e-mail to camera.sales.uk@imenco.com or find personal contact info on our website.

imenco.com

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OE14-522

TECHNICAL SPECIFICATIONS

Performance & Electrical	
Horizontal Resolution	800 TVL/PH
Light Sensitivity	350mV video at 0.5 lux faceplate (1/30 sec, F1.8)
Minimum Scene Illumination	2 lux
Signal to Noise Ratio	>54dB (weighted)
Sensor	1/3" Type Progressive Scan CMOS
Power Input	16 – 24 VDC, 1A (max)
Video & Network	
Sensor Resolution	1920 (H) x 1080 (V) active pixels
Scan Standards	1080i/720p,59fps 1080i/720p,59.94fps PAL/NTSC VBS Composite video
Video Compression	H.264 and Motion JPEG
Video Streaming	Up to 4 simultaneous streams
Interface	10/100 Base TX Ethernet
Protocols	IPv4, TCP/IP, UDP, IGMP (Multicast), HTTP, RTSP, DNS
Latency	< 150ms*
Optical	
Lens	3.3mm to 33mm, 10:1 optical zoom, F1.8 to F3.4
AOV in water	Horizontal: 40.5° (wide) Vertical: 23.0° (wide) Diagonal: 45.1° (wide)
Iris Control	Automatic (manual control available through GUI)
Focus Range	10mm to infinity (at wide angle) 1000mm to infinity (at tele angle)
Angular Coverage	
Pan & Tilt	Pan: ±115°, Tilt: ±112° (with lens at wide angle setting)
Pan & Tilt, Zoom and Focus Control	GUI or optional joystick terminal
Mechanical	
Dimensions	Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector)
Weight	In air: 6.4 Kg, In water: 4.4 Kg
Housing Material	Titanium alloy 6AL/4V ASTM B3 48
Connector	Configuration dependant
Environmental	
Operating Depth	4500 msw (other depth rated housing options are available)
Temperature	Operating: -5 to 40°C, Storage: -20 to 60°C
Shock	30G peak acceleration, 25ms half sine duration, on all three axes
Vibration	10G, from 20 to 150HZ on all three axes
Electromagnetic Compatibility	BS EN 61000-6-3: 2007 Emission and BS EN 61000-6-1: 2007 Immunity

* When Tested with Imenco Subvis Smartview Media Player