

OE14-522HDIP

High Definition, Ethernet, Pan & Tilt, Zoom Camera



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.

Performance

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 ration	>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, 59 fps 1080i / 720p, 59.94 fps 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	10 mm to infinity (at wide angle) 1000mm to infinity (at tele angle)

Angular coverage

Pan & tilt	Pan: $\pm 115^\circ$, Tilt: $\pm 112^\circ$ (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