OE17-110

Applications

- Aquaculture
- Marine Renewables
- Pipe-lay and Stinger
- Operations Observation Class ROVs
- Mega Yacht & Cruise Vessels
- General Observations Tasks

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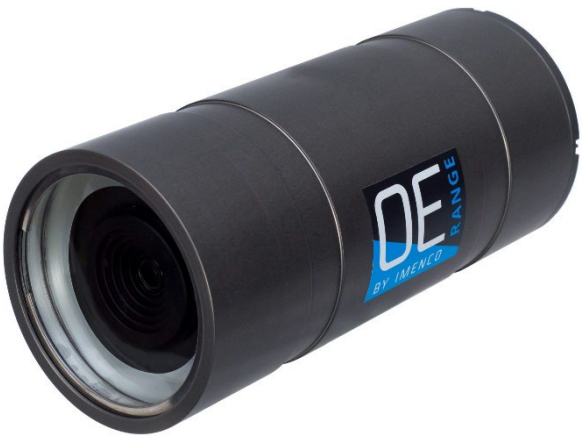

Subsea High Definition Camera

- HDTV 1080p Ethernet Camera
- 77˚ Wide AOV
- 500 msw Depth Rating

The OE17-110 is a compact and versatile HD subsea camera offering excellent video quality with up to 1920 x 1080-pixel resolution at up to 60 fps. The camera utilises a 1/2.8" CMOS sensor and supports both H.264 and MJPEG video compression standards for transmission over a 10/100 Base TX Ethernet network connection.

Both video streaming and image settings such as size, quality, bit rate, white balance, gain and backlight compensation can be controlled using the intuitive Imenco web interface.

The OE17-110 camera, which is rated for operations at 500 metre water depth, is manufactured with a rugged aluminium anodised housing and scratch resistant borosilicate glass port. At only 204mm long and 90mm in diameter the OE17-110 is an extremely compact camera.

The OE17-110 camera has been designed as a cost effective option for general purpose viewing in shallow water applications including: aquaculture and caged fish farming, marine renewables, stinger and pipe-lay systems, mega yacht and cruise vessel hull mount as well as observation class ROVs.

For further information, email
camera.sales.uk@imenco.com

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Technical Specifications

Performance & Electrical	
Horizontal Resolution/Format	1080p / 30fps (60fps available on request)
Light Sensitivity	2 x 10^{-3} lux @ 10% mean sensor level (faceplate illumination)
Minimum Scene Illumination	1 x 10^{-3} lux (monochrome)
Signal to Noise Ratio	70 dB
Sensor	1/2.8" Progressive CMOS
Power Input	16 to 30 VDC, 8 Watts (max) or IEEE802.3af/at PoE Class 0 compliant
Inrush Current	1A (16 to 30 VDC configuration)
Digital Zoom	48:1 Digital
On-board Storage	Micro SD / SDHC / SDXC card slot (16GB fitted)
Video & Network	
Sensor Resolution	1920 x 1080 (2MP)
Video Compression	H.264 and Motion JPEG
Video Streaming	Upto 4 simultaneous streams
Frame Rate	30fps @ 1920 x 1080 (60fps available on request)
Interface	10/100 Base TX Ethernet
Protocols	IPv4, IPv6, TCP/IP, DHCP, HTTP, HTTPS, RTSP/RTP/RTCP, Onvif support, Milestone XProtect compatible
Optical	
Lens	2.7mm, F2.1 fixed focus
AOV (Diagonal)	In air: 113˚, In water: 77˚
Iris Control	Automatic
Focus Range	0.2m to infinity, fixed (in air) 0.3m to infinity, fixed (in water)
Mechanical	
Dimensions	Diameter: 90mm (main body) Length: 204mm (excl. connector)
Weight	In air: 1.5 Kg, In water: 0.2 Kg
Housing Material	Aluminum alloy, 6082-T6, clear anodised (other options available)
Connector	Subconn DBH13M (other options available)
Environmental	
Operating Depth	500 msw
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

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