

OE17-101 PYGMY

Applications

- Marine Renewables
- General Observations Tasks
- Pipe-lay and Stinger Operations
- Observation Class ROVs
- Work Class ROVs



Subsea High Definition IP Tooling Camera

- HDTV 1080p Ethernet Camera
- 96° Wide AOV
- 6000 msw Depth Rating

The OE17-101 Pygmy, is a compact and versatile HDIP colour subsea tooling camera offering excellent video quality with up to 1920 x 1080-pixel resolution at 30 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 web interface.

The OE17-101 Pygmy camera, which is rated for operations at 6000 metre water depth, is manufactured with a rugged titanium alloy housing and scratch resistant borosilicate glass port. At only 195mm long and 46mm in diameter the OE17-101 Pygmy is an extremely compact camera.

The OE17-101 Pygmy camera has been designed as a cost-effective option for tooling and manipulator tasks as well as general-purpose viewing applications such as gauge monitoring, TMS tether or latch monitoring.

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



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Technical Specifications

Performance & Electrical	
Horizontal Resolution	≥800 TVL/PH
Light Sensitivity	12.5 x 10 ⁻³ lux @ 10% mean sensor level (faceplate illumination)
Minimum Scene Illumination	12.5 x 10 ⁻³ lux (night mode)
Sensor	1/2.8" Progressive CMOS
Power Input	16 to 24 VDC, 0.2A (max) or IEEE802.3at PoE Class 0 compliant
Inrush Current	0.5A (16 to 24 VDC configuration)
Video & Network	
Sensor Resolution	1920 x 1080 (2MP)
Video Compression	H.264 and Motion JPEG
Glass to Glass Latency	300 mS
Video Streaming	Dual simultaneous streams,
Frame Rate	30 fps @1920 x1080
Interface	10/100 Base TX Ethernet
Protocols	IPv4, IPv6, TCP/IP, DHCP, HTTP, HTTPS, ICMP, IGMP, RTSP/RTP/RTCP, DNS, DDNS, Unicast / Multicast, Onvif support, Milestone XProtect compatible, Imenco Smartview
Optical	
Lens	3.7mm, F2.0 fixed focus
AOV (In water)	Horizontal: 83.8° Vertical: 45.6° Diagonal: 96°
Iris Control	Automatic
Focus Range	20mm to 50mm, fixed (in air) 120mm to infinity, fixed (in water)
Mechanical	
Dimensions	Diameter: 46mm (widest point) Length: 195mm (excl. connector)
Weight	In air: 0.7 Kg, In water: 0.4 Kg
Housing Material	Titanium alloy, 6AL/4V ASTM B348 Grade 5
Connector	Subconn DBH13MTI (other options available)
Environmental	
Operating Depth	6000 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

oe17101_Datasheet_Rev.B

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