



SubVIS ORCA



High End HD IP Zoom Camera

- HD Ethernet 1080p@60fps low latency video streaming
- Camera with an Imenco designed powerful Embedded Computer
- Ready for advanced image enhancement and Computer Vision
- Software SmartView client with OSD and recording / snapshot
- Snapshot interval timer integrated in SmartView Client
- Standard video streaming protocols RTSP / RTP
- HTTP commands for configuration and control
- Video time-stamp logging

The SubVIS platform is based on embedding a computer into the camera, making it ready for advanced image enhancement and Computer Vision. We have effectively made a dedicated computer especially designed for low latency video processing, based on Smart Phone technology. Full digital video transmission opens up an array of applications in the control room.

Similar to the Smart Phone technology, an important part of Imenco's philosophy is to ensure an open architecture to allow third parties to fully integrate these cameras into their control systems and to write software applications to increase the popularity and usefulness of the platform. This will allow you the freedom to tailor the package to suit your own specific demands, as well as integrating your own video analysis function algorithms, image enhancement etc. on top of the core software.

The system caters for the use of image Metadata, which represents great advantages. One of the most innovative and exciting features that will be developed on this system is that subsea devices can be made to automatically communicate with each other. This allows for example the camera to tell the lights to reduce its intensity and deliver optimum level of light.

The camera is designed as a ROV main camera and has been equipped with an excellent water correction lens system for high image quality. Imenco will keep on developing software applications as well as new camera models in the SubVIS range.

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Technical Specifications

Ethernet	100/1000Mbit TP
Ethernet video streaming protocols	RTSP/RTP, UDP, Unicast/Multicast
Ethernet control protocol	HTTP
Video compression	H.264 AVC up to 40Mbps
Video resolutions	1080p@60/50/30/25,720p@60/50,576p@50/25, 480p@60/30
Optical	Acrylic
Latency	~150mS
Built in 9-axis sensor	3-axis gyroscope 3-axis accelerometer 3-axis magnetometer
Additional Interfaces	RS232 & RS485 2 x GPIO
Optical Zoom	30:1
Angle of view - wide (in water)	Diagonal: 75° Horizontal: 62°
Power requirements	24VDC (18 - 75)
Standard connector	Subconn DBCR2013M
Depth rating	6000 msw
Housing	Titanium
Main dimensions (ex conn.)	Diameter: 40 (main Body) 117mm (front end) Length: 226mm
Weight	In Water: 1,2 Kg In Air: 5.0 Kg



For further information, email
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