

Applications:

Naval Surface Ships

Waterline Security

Topside Observation

Surveillance to Horizon



# HOSS ALLSS TRZ Ultra Low Light Dome Camera

TILT, ROTATE & ZOOM LL MONOCHROME DOME CAMERA STATION – 0465-6004

In-Service Navy Proven

Ultra Low Light Performance

316L Stainless Steel Purged & Painted

H.264 IP Option – ONVIF compliant

Fully Qualified to US Mil Spec

Diamond Turned Optical Dome

The Imenco 0465-6004 HOSS TRZ ultra low light monochrome CCTV dome camera station is an extremely robust unit based on a Tilt, Rotate and Zoom (TRZ) dome version of the navy proven Imenco HOSS zoom camera. Helicopter Operations Surveillance System (HOSS) cameras are used extensively to monitor the safety of aircraft flight deck operations.

The above decks camera comprises a high sensitivity, high resolution monochrome CCD sensor coupled to an 8 - 48mm, F1.0 zoom lens. The camera and lens are fastened to an internal motorized gimbal that facilitates rotation and tilting motions. The camera housing features a precision machined optical dome, fastened to a grey painted stainless steel housing. The housing is fitted with a purge valve that permits it to be purged and pressurized with dry nitrogen for extended maintenance-free operation. The camera will provide useable images in very low light down to approximately quarter moonlight.

The high performance low light camera station also includes camera cable assembly and below decks junction box for termination of ships cables.

As well as the standard analogue CVBS interface an advanced IP option is also available. With H.264 and MJPEG compatibility, multiple streams can be simultaneously transmitted in either of these formats at different resolutions, frame rates, and image qualities for versatile platforms. The ONVIF compliant IP camera can easily be integrated into standard IP network based systems.

The Imenco 0465-6004 HOSS TRZ ultra low light monochrome CCTV dome camera station has been extensively proven in US Navy service as part of the Amphib Low Light Surveillance System (ALLSS). It is typically installed dome down in bridge wing locations for monitoring waterline security and general operations, in lieu of multiple fixed cameras.

The camera has been fully qualified to meet the stringent US Navy Grade A requirements of MIL-STD-901D "Hammer" shock test as well as the Above Decks surface ships limits for MIL-STD-416F EMI.

Contact us for additional information or to get a quotation. Send an e-mail to [systems.uk@imenco.com](mailto:systems.uk@imenco.com) or find personal contact info on our website.

**imenco.com**

MARINE **CCTV** RANGE  
BY IMENCO

# 0465-6004 / 0465-6004IP

## TECHNICAL SPECIFICATIONS

Performance, Electrical & Network	
Resolution	570 TVL/PH (0465-6004); D1 720 x 480 (0465-6004IP)
Sensitivity	0.0003Lux (at sensor, useable picture, full frame rate (30fps))
Scene Illumination	0.0024Lux @ F1.0
Sensor Type	1/2" IL CCD
Video Output	1V p-p Composite Video, 525 lines 60 Hz (RS-170 Mono) (0465-6004 only)
Video Compression	H.264 and MJPEG (0465-6004IP only)
Video Streaming	Multiple simultaneous streams (0465-6004IP only)
Frame Rate	1 to 30fps @ D1 (720 x 480) (0465-6004IP only)
Networking	10/100 Mbps Ethernet, ONVIF support & Milestone XProtect® compatible (0465-6004IP only)
On-board Storage	Micro SD/SDHC/SDXC card slot (0465-6004IP only)
Power Input	115Vac, 28VA normal, 33VA peak
Electro-Magnetic Compatibility	MIL-STD-461F, Above Decks surface ships limits
Optical	
Standard Lens	8 to 48mm, F1.0, 6:1 zoom lens
Iris Control	Automatic (galvo)
Focus	1.2m to infinity
AOV in air	7° to 41° horizontal
Mechanical	
Dimensions	Camera: Ø241mm x 309mm H Junction Box: 445mm (L) x 379mm (W) x 160mm (H)
Weight	Camera: 16.4Kg, Cable: 2Kg, Junction Box: 15.2Kg
Standard Housing	Camera: 316L Stainless Steel painted to FED-STD-595, color no. 26270 Junction Box: Sheet steel, powder coated grey ANSI 61 (below decks)
Window	Optical Acrylic
Connector/Cable	Camera: 220-02E14-12PN (Stainless Steel), Junction Box: glands Cable: 220-06E14-12SN with 15.25m (50') LSZH cable tails to junction box (installed within Glenair Stainless Steel EMI conduit (conduit not included))
Pan & Tilt Coverage	Pan: 360° continuous, Tilt: 0° to -90° (dome down), analogue/RS-485 control
Environmental	
Housing	IP67 (camera)
Temperature operating / storage	MIL-STD-810F, -20°C to +50°C 95% RH operating / -30°C to +70°C storage
Shock	MIL-STD-901D, Grade B, Class II
Vibration	MIL-STD-167-1A Shipboard, 4 to 25Hz

Specification subject to change without any further notice

0465-6004\_Datasheet\_RevA