

## Applications:

Flight Deck Surveillance  
Helicopter Operations  
Amphibious Well Deck Monitoring  
Naval Surface Ships



# HOSS High Definition Colour/Mono PTZ Camera

## PAN, TILT & ZOOM COLOUR/MONO CAMERA STATION – 0465-6002-IP-HD

In-Service Navy Proven

1080p High Definition Colour/Mono

Radar Cross Section Reduced (RCSR)

H.264/MJPEG IP Video Streams – ONVIF compliant

Designed to US Mil Spec

Window Heater

The Imenco 0465-6002-IP-HD HOSS HD Colour/Mono PTZ CCTV camera station provides an advanced colour digital sensor technology upgrade to the original Standard Definition (SD) monochrome HOSS camera. The Imenco Helicopter Operations Surveillance System (HOSS) has built an excellent reputation in providing the bridge with real time CCTV monitoring even in very low light conditions.

The HOSS HD zoom camera comprises a high sensitivity colour/mono CMOS sensor coupled to a 30:1 zoom lens, protected by a sealed, nitrogen purged, aluminium housing. A thermostatically controlled heated window helps to disperse external condensation. A Radar Cross Section Reduced (RCSR) shroud is also fitted around the camera as part of the assembly.

The 316 stainless steel pan & tilt unit provides continuous rotate and a  $\pm 70^\circ$  tilt range. It also features fully enclosed cable routing to reduce overall footprint and improve safety and reliability.

The integrated HD IP encoder can deliver four simultaneous video streams, one in H.264 and three in MJPEG, providing razor sharp 1080p HD video at 30fps. 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.

For surface ship applications the HOSS HD PTZ camera is typically installed above decks overlooking the heli-deck, or flight deck. A standard camera cable assembly and below decks junction box for termination of ships cables is also included.

The new HOSS colour IP HD PTZ camera design is based heavily on the original HOSS mono analogue SD PTZ camera that is fully qualified to meet the stringent US Navy 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

# 0465-6002-IP-HD

## TECHNICAL SPECIFICATIONS

Performance, Electrical & Network	
Resolution	Up to 1920 x 1080 @ 30 fps (full 1080p HD)
Scene Illumination	30fps: 0.013 Lux mono; 0.35 Lux colour ¼ sec frame integration: 0.002 Lux mono; 0.05 Lux colour
Sensor Type	1/2.8" megapixel Sony Exmor CMOS
Video Compression	H.264 and MJPEG
Video Streaming	Up to 4 x simultaneous streams (1x H.264 and 3 x MJPEG), individually controllable
Frame Rate	30fps at up to 1080p (1920 x 1080)
Networking	10/100 Mbps Ethernet, ONVIF support & Milestone XProtect® compatible
Power Input	115Vac, 48VA normal, 100VA peak with heater on
Electro-Magnetic Compatibility	Designed to MIL-STD-461F, Above Decks surface ships limits
Optical	
Standard Lens	4.3 to 129mm, F1.6 to F4.7, 30:1 optical zoom lens, 12 x digital zoom
Iris Control	Automatic
Focus	1.2m to infinity
AOV in air	2.3° to 63.7° horizontal
Mechanical	
Dimensions	Camera/Pan & Tilt/Shroud: 480mm (H) x 522mm (W) x 486mm (D) Junction Box: 571mm (L) x 413mm (W) x 185mm (H)
Weight	Camera: 3.3Kg, Pan&Tilt: 31Kg, Shroud: 2.8Kg, Cable: 4Kg, Junction Box: 18Kg
Standard Housing	Camera: 6061-T6 Aluminium painted to FED-STD-595, color no. 16480 Pan & Tilt/Shroud: 316L Stainless Steel painted to FED-STD-595, color no. 16480 Junction Box: 304 Stainless Steel painted to FED-STD-595, color no. 26307 (below decks)
Window	Optically polished Borosilicate, heated
Connector/Cable	Camera: Glenair 800 type 9-210, Pan & Tilt: Glenair 800 type 12-220, Junction Box: glands Cable: MS3456LS24-28S with 15.25m (50') LSZH cable tails to junction box (installed within Glenair Stainless Steel EMI conduit (conduit not included))
Pan & Tilt Coverage/Control	Pan: 360° continuous, Tilt: ±70° from horizontal, RS-485 control, Pelco D protocol, 2400 baud
Environmental	
Housing	IP66 (camera and pan & tilt unit)
Temperature operating	IEC 60945:2002; Designed to MIL-STD-810F, -29°C to +50°C / 95% RH
Temperature storage	IEC 60945:2002; Designed to MIL-STD-810F, -30°C to +70°C
Shock	Designed to MIL-STD-901D, Grade B, Class II
Vibration	IEC 60945 Test 8.7; Designed to MIL-STD-167-1A Shipboard, 4 to 25Hz

Specification subject to change without any further notice

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