

# HOSS HD



KONGSBERG



## HOSS HIGH DEFINITION COLOUR/ MONO PTZ CAMERA STATION, MIL SPEC

The 0465-6002-IP-HD Kongsberg Maritime Helicopter Operations Surveillance System HD (HOSS HD) provides an advanced colour sensor technology upgrade to the original Standard Definition monochrome HOSS, which has built an excellent reputation for reliable performance in providing the bridge with a high quality CCTV display even in very low light conditions.

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

The integrated IP encoder can deliver four simultaneous video streams, one in H.264 and three in Motion JPEG, providing razor sharp 1080p HD video at 30fps. The H.264 video compression format drastically reduces bandwidth and storage requirements without compromising image quality. The integrated IP encoder is fully ONVIF compatible and works seamlessly with Video Management Software (VMS), including Milestone XProtect®.

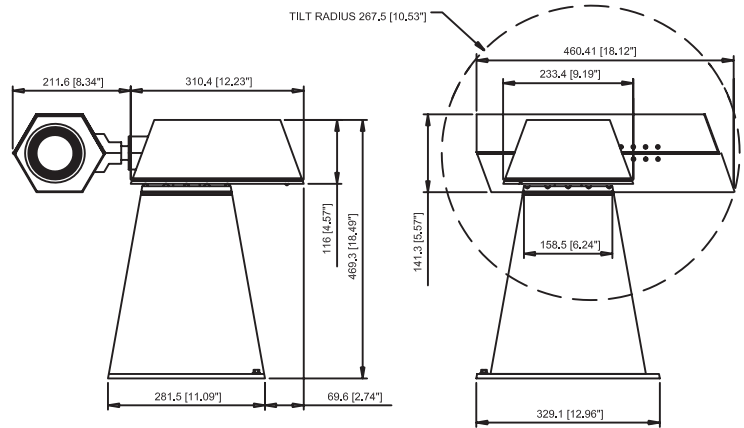
The 316L stainless steel pan & tilt unit provides continuous rotate and a  $\pm 70^\circ$  tilt range. It also features fully enclosed cable routing to reduce overall footprint and improve safety & reliability. For surface ship applications the HOSS PTZ camera is typically installed topside overlooking the heli-deck, or flight deck. A standard below decks Junction Box for termination of ships cables is also included.

The new HOSS HD design is based heavily on the original HOSS SD camera station that was fully qualified to meet the stringent US Navy requirements of MIL-STD-901D 'Hammer' shock test as well as MIL-STD-461F EMI for surface ships.



## FEATURES

- Unique HD colour/ mono PTZ camera
- Proven in Navy helicopter applications
- Radar Cross Section Reduced (RCSR)
- H.264 & MJPEG IP Video Streams
- 1080p High Definition @ 30fps
- ONVIF Profile S Compliant



## TECHNICAL SPECIFICATIONS

### ELECTRICAL

Resolution Up to 1920x1080 @ 30 fps (Full 1080p HD)

Scene illumination

- 30fps 0.013 lux mono; 0.35 lux colour
- ¼ sec frame int. 0.002 lux mono; 0.05 lux colour

Sensor type 1/2.8" megapixel Sony Exmor CMOS

Power input 115 VAC, 43 VA normal, 77 VA maximum

Video streams 1x H.264 and up to 3x MJPEG, simultaneous

Networking 10/100 Base T Ethernet, Internet Explorer 6.0 & above, ONVIF Profile S and Milestone XProtect® compatible

EM compatibility Designed to MIL-STD-461F Emissions & Susceptibility (Above Decks Surface Ships)

### ENVIRONMENTAL

Housing IP66

Temperature IEC 60945:2002; designed to MIL-STD-810F

Operating: -29°C to +50°C / 95 % relative humidity

Storage: -30°C to +70°C

Vibration IEC 60945 Test 8.7, designed to MIL-STD-167-1A Shipboard, 4 to 25 Hz

Shock Designed to MIL-STD-901D, grade B, Class I

### OPTICAL

Standard lens 4.3 to 129 mm, F1.6 to F4.7, 30:1 zoom lens; 12x digital zoom

Iris control Automatic

Focus 1.2 m to infinity

AOV in air 2.3° to 63.7° horizontal

### MECHANICAL

Dimensions 480 x 522 x 487 mm camera / P&T / shroud  
508 x 406 x 152 mm junction box

Weight 36.8 kg camera / Pan &Tilt / shroud  
18 kg, junction box

Housing

- Camera 6061-T6 aluminium/ Delrin;
- Pan & Tilt Stainless steel 316
- Junction box Stainless Steel 304  
-with all external surfaces painted to FED-STD-595C

Window Optically polished borosilicate

Connector Glenair series 800 type 9-210, camera  
Glenair series 800 type 12-220, Pan & Tilt

### PAN AND TILT COVERAGE

Tilt ±70° from horizontal

Pan 360° continuous unlimited

P&T control RS485, Pelco D protocol, 2400 baud

Specifications subject to change without any further notice.

KONGSBERG MARITIME

Telephone: +44 1224 226500  
E-mail sales: km.systems.uk@kongsberg.com

www.km.kongsberg.com



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