

# KH HAZARDOUS AREA CAMERA STATIONS



KONGSBERG



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## ATEX AND IECEx CERTIFIED CAMERA STATIONS

- **Electro-polished 316L stainless steel**
- **Fixed and Pan/Tilt/Zoom units**
- **IP66 and IP68 rated**
- **H.264 IP/analogue options**
- **3<sup>rd</sup> party Video Software Management (VMS) compatible**
- **Thermostatic window demister**

The Kongsberg Maritime "KH" Range of cameras offers unprecedented performance and is developed for use in hazardous area applications.

The KH range is designed to offer the best possible balance of optical performance and environmental protection. The camera bodies are constructed from the highest grade, electro-polished 316L stainless steel and are capable in operating in temperature ranges from -45°C to +70°C.

The KH range comes with a host options that optimize the camera's suitability for most extreme applications.

Each camera head comes complete with a 316L stainless steel mounting bracket, junction box & 3m cable tail (cable tails options available on request).

Kongsberg Maritime cameras always utilise the latest in optical technology and come with list of module options to choose from that ensure that the requirements of the operators can be met whenever possible.

As well as the standard analogue interface an advanced IP option is also available. The integrated IP option can deliver two simultaneous video streams, one in H.264 and another in Motion JPEG, at full frame rate in all resolutions up to

D1 (720x480 in NTSC, 720x576 in PAL). The H.264 video compression format drastically reduces bandwidth and storage requirements without compromising image quality. The integrated IP option is fully compatible with Video Management Software (VMS), including Milestone XProtect®.

## AVAILABLE OPTIONS

- Wiper
- Wash System
- Continuous Rotation
- Variable Speed Control
- Internet Protocol (IP)
- IR LED Illumination

## Applications

- Oil & Gas Platforms
- FPSOs
- LPG/LNG Vessels
- Offshore Installations

## TECHNICAL SPECIFICATIONS

Class	Fixed	Fixed	PTZ	PTZ	PTZ
Optical Zoom	18x	36x	10x	18x	36x
Resolution	550TVL	550TVL	530TVL	550TVL	550TVL
Image Format	PAL	PAL	PAL	PAL	PAL
Image Sensor	1/4" Exview HAD CCD	1/4" Exview HAD CCD	1/4 Super HAD CCD II	1/4" Exview HAD CCD	1/4 Exview CCD
Lens	F = 4.1mm to 73.8mm F1.4 to F3.0	F = 3.4mm to 122.4mm F1.6 to F4.5	F = 5.1mm to 51mm F1.8 to F2.1	F = 4.1mm to 73.8mm F1.4 to F3.0	F = 3.4mm to 122.4mm F1.6 to F4.5
Angle of View	48° (W) to 2.8° (T)	57.8° (W) to 1.7° (T)	52° (W) to 5.4° (T)	48° (W) to 2.8° (T)	57.8° (W) to 1.7° (T)
Minimum Illumination	Day mode (colour): 0.7 lux typical Night mode (mono): 0.01 lux typical	Day mode (colour): 1.4 lux typical Night mode (mono): 0.01 lux typical	Day mode (colour): 0.25 lux typical Night mode (mono): 0.0004 lux typical	Day mode (colour): 0.7 lux typical Night mode (mono): 0.01 lux typical	Day mode (colour): 1.4 lux typical Night mode (mono): 0.01 lux typical
Video Output	Composite	Composite	Composite	Composite	Composite

### Electrical

Power Requirements	24V ac 50/60hz or 24Vdc
Configuration	Via On-screen Menu
Electro-Magnetic Compatibility	CE Marking, BSEN 55022 as part of EN 61000-6-3 2001 Emission and EN 61000-6-1 2001 Immunity

### Environmental

Housing	IP66 & IP68
Temperature	Operating: -55°C to +60°C

### Mechanical

Tilt	180°, -0° to 4.5°/second Mechanical Limits, Programmable Soft Spots, and Pre-set Positioning
Tilt (Variable Speed/Cont. Rotate)	0° to 21°/sec
Pan	360°, 0° to 9°/second Mechanical Limits, Programmable Soft Spots, and Pre-set Positioning
Pan (Variable Speed/Cont. Rotate)	0° to 42°/sec
Presets	127
Tours	16 Preset Tours
Protocols	Pelco P, Pelco D, Other industry standards are available – enquire with a Kongsberg Rep
Mount Orientation	Upright and Inverted
Dimensions	Fixed: 180 x 240 x 310mm PTZ: 380 x 310 x 352mm
Weight	Fixed: 8.0kg PTZ: 25.0kg
Standard Housing	High Grade, Electro Polished 316L Stainless Steel
Window Material	Optically Flat Glass
Junction Box	316 Stainless Steel
Cable Tail	LSZH Composite CCTV Cable

## PRODUCT ORDER OPTIONS

### Hazardous Area PTZ Camera Station

Product Code	Description
KH-P-10PTAN	Analogue, 10:1
KH-P-10PTIP	IP, 10:1
KH-P-18PTAN	Analogue, 18:1
KH-P-18PTIP	IP, 18:1
KH-P-36PTAN	Analogue, 36:1
KH-P-36PTIP	IP, 36:1

### Hazardous Area Fixed Camera Station

Product Code	Description
KH-P-18FIAN	Analogue, 18:1
KH-P-18FIIP	IP, 18:1
KH-P-36FIAN	Analogue, 36:1
KH-P-36FIIP	IP, 36:1

Specifications subject to change without any further notice

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