

KD MARINE PTZ DOME CAMERA STATION



KONGSBERG



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BELOW (OR ABOVE) DECK PAN/TILT/ZOOM DOME CAMERA

- **Highly robust aluminium PTZ dome**
- **18x and 36x zoom options**
- **H.264 IP / Analogue options**
- **IP67 rated**

The Kongsberg Maritime "KD" range of cameras offer a rugged, Pan, Tilt & Zoom dome camera solution for maritime vessels. The KD cameras offer an extremely robust, feature rich speed dome solution for below deck applications.

The camera head uses a high resolution colour/mono sensor with options of 18x and 36x optical zoom; both with 12x digital zoom. Other features include proportional pan and tilt speed control and up to 32 position presets, 16 preset tours and switchable tilt flip operation.

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®.

The KD dome camera is fully sealed to IP67 and is contained within a robust powder coated aluminium

- **Qualified to US Mil Spec**
- **3rd party Video Management Software (VMS) compatible**

housing and clear polycarbonate dome. The assembly is galvanically isolated from the ship's structure to further minimise any effects of corrosion. The camera is supplied as a complete station complete with a camera head, rugged 316 stainless steel bracket (with deck or overhead mount options), a 316 stainless steel junction box & cable tails for termination of ships cables

The ultra rugged KD camera has been designed and fully qualified to meet the stringent US Navy requirements of MIL-STD-901D 'Hammer' shock test as well as MIL-STD-167 vibration and MIL-STD-810F environmental for surface ships.

Applications

- **Commercial Vessels**
- **Naval Surface Ships**
- **Port & Harbour Security**
- **Offshore Installations**

TECHNICAL SPECIFICATIONS

Electrical

Camera	True day/night with auto ICR
Sensor Type	Sony EX-view HAD 1/3" CCD with wide dynamic range
Horizontal Resolution	550 TV Lines, 440k pixels PAL (NTSC and IP options also available)
Optical Zoom	18x or 36x (model dependant)
Focal Length	4.1 to 73.8mm (F1.4 to F3) (18x model) 3.4 to 122.4mm (F1.6 to F4.5) (36x model)
Angle of View	48° to 2.7° (tele) (18x model) 58° to 1.7° (tele) (36x model)
Digital Zoom	12x
Sensitivity	0.7Lux colour, 0.01Lux B/W - ICR on (18x model) 1.4Lux colour, 0.05Lux B/W - ICR on (36x model)
Wide Dynamic Range	Yes
Privacy Masks	24 (up to 8 displayed at once)
Camera Movement	0.05° to 300°/sec max (both axes) 360° continuous pan rotation
Presets/patrols	32 preset positions with 20 character programmable titles, 16 patrols of up to 16 preset positions, 4 one minute mimic tours
Telemetry Protocols	RS485 – Overview, Pelco P, Pelco D, Sensormatic, Samsung, Kalatel, Vicon, Ikegami, VCL.
Operating Voltage	18-26Vac, 22-36Vdc
Power Consumption	10W
Video Output	1V p-p (nominal) composite video
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	IP67
Temperature	MIL-STD-810F Operating: -20°C to +50°C / 95% RH Storage: -30°C to +70°C
Vibration	MIL-STD-167-1A, Type 1, Shipboard
Shock	MIL-STD-901D, Grade B, Class II (US Navy 'Hammer' test) NES 1004, 30g peak, 18ms,(Shock handling strength test)

Mechanical

Dimensions (Dome)	206mm (D) x 240mm (H)
Weight	5.8Kg in Air
Standard Housing	Aluminium, powder coated
Window Material	Polycarbonate dome
Connector	Amphenol IP67, rear mounted
Junction Box	316 Stainless Steel
Cable Tail	LSZH Composite CCTV Cable

Pan and Tilt Coverage

Tilt	0° to -90° (dome down, switchable flip)
Pan	360° continuous unlimited
Pan and Tilt Control	RS485 (Pelco D, with H.264 IP option)

PRODUCT ORDER OPTIONS

Marine PTZ Dome Camera Station

Product Code	Description
KD-P-18SDAN	Standard Definition, Analogue, 18:1
KD-P-18SDIP	Standard Definition, IP, 18:1
KD-P-36SDAN	Standard Definition, Analogue, 36:1
KD-P-36SDIP	Standard Definition, IP, 36:1

Specifications subject to change without any further notice.

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