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NAVAL POE THERMAL CAMERA

- **LWIR 384 x 288 thermal sensor**
- **H.264 compression**
- **Fully qualified to US Mil Spec**
- **Power Over Ethernet (POE) compatible**

The Kongsberg Maritime 0482-6013 is an ultra rugged marine IP thermal camera with an athermalised LWIR lens and is ideally suited to both thermal and night vision observation purposes both in ship engineering spaces and above deck locations.

Equipped with an amorphous silicon based microbolometer, high sensitivity (45mK, typical f1.0 lens) thermal sensor enabling excellent viewing resolutions of 384 x 288 at 25 fps. The KML 0482-6013 is an all-in-one robust and highly reliable camera capable of capturing high quality and medium resolution thermal scenes.

The Kongsberg rugged compact IP POE thermal camera supports the latest industry-standard H.264 compression technology, drastically reducing file sizes and conserving valuable network bandwidth. With H.264, MPEG-4, and MJPEG compatibility all included, dual streams can be simultaneously transmitted in any of these formats at different resolutions, frame rates, and image qualities for versatile platforms. The camera also features a micro SD/SDHC card slot for local on-board storage.

The camera being Power Over Ethernet (POE) capable means that the only cable required is one of CAT 5E quality and this arrangement has the advantage that no

- **On-board SD card storage**
- **3rd party Video Management Software (VMS) compatible**

expensive camera junction box will be required.

The camera is housed in a machined, anodised and painted marine-grade Aluminium housing to provide a large degree of protection from the ship environment in which it needs to operate in. A stainless steel bulkhead mounting bracket (part no. 0482-6011) is also available and the whole assembly is designed for ease of installation.

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 MIL-STD-461E EMI for surface ships.

Applications

- **Naval Surface Ships**
- **Commercial Vessels**
- **Detecting Hot Spots and Fires**
- **Industrial Monitoring**

TECHNICAL SPECIFICATIONS

Electrical

Sensor Resolution	384 (H) x 288 (V) (25 fps / CCIR (PAL)) 320 (H) x 240 (V) (30 fps / EIA (NTSC))
Sensor Type	Amorphous-silicon based focal-plane
Sensor Pitch	25 µm
Sensor Sensitivity	45mK (Typical, f1.0)
Sensor Response	8 µm to 14 µm
Video Compression	H.264, MPEG-4 and MJPEG
Video Streaming	Simultaneous Dual Streams
Frame Rate	Up to 30 fps at 720 x 576
Networking	10/100 Mbps Ethernet, Milestone XProtect® compatible
On-board Storage	Micro SD/SDHC card slot (4GB fitted)
Power Input	Power Over Ethernet (POE) (IEEE802.3af Class 0), 8 Watt
Electro-Magnetic Compatibility	MIL-STD-461E, Surface Ships

Environmental

Housing	IP67 (1m Immersion)
Temperature	MIL-STD-810F Operating: -32°C to +57°C / 95% RH Storage: -40°C to +70°C
Vibration	MIL-STD-167-1A Shipboard, 4 to 33Hz
Shock	MIL-S-901D, Grade A, Class 1, Type A
Salt Fog	MIL-STD-810F, Method 509.4

Optical

Lens	8.5mm, f/1.2 Athermalised
Focus	Fixed 1.2m to infinity
Angle of View in Air	64° Horizontal x 44° Vertical (CCIR) 54° Horizontal x 39° Vertical (EIA)

Mechanical

Diameter	74 mm (excl. connector)
Length	174 mm
Weight	1.1 Kg in Air
Standard Housing	Aluminium alloy 6082T6 to BS1470, clear anodised and painted grey (FED-STD-595 #26307) polyester powder semi gloss paint top coat
Window	Germanium 3mm thick, A/R coated
Connector Type	D38999/20WB35PN

Specifications subject to change without any further notice.

