

Rugged Naval Fixed Thermal Camera



RUGGED FIXED POE HIGH-RES THERMAL CAMERA 0534-6105

- LWIR 640 x 480 17 μ m thermal sensor
- On-board SD card storage
- Non ITAR
- Designed to US MIL Spec
- ONVIF compliant
- Power over Ethernet (PoE) compatible

The Imenco 0534-6105 is an ultra-rugged naval marine IP, high resolution, thermal CCTV camera. With an Athermalised Long Wave Infra-Red (LWIR) lens and is ideally suited to both thermal and night vision observation purposes in ship engineering spaces and above deck locations.

Equipped with an amorphous silicon based microbolometer, high sensitivity (<40mK) thermal sensor, enabling excellent viewing resolutions of 640 x 480 at 30 fps. The Imenco 0534-6105 is an all-in-one robust and highly reliable camera capable of capturing high quality and high resolution thermal scenes.

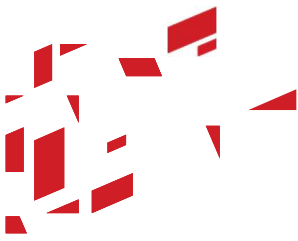
The Imenco rugged compact IP Power over Ethernet (PoE) camera supports the latest industry-standard H.265 compression technology, drastically reducing file sizes and conserving valuable network bandwidth with H.265, H.264 and MJPEG compatibility all included, multiple streams can be simultaneously transmitted in either of these formats at different resolutions, frame rates, and image qualities for versatile platform integration.

Data and power transmission to the camera is made via a single Cat5e or Cat6 cable which removes the requirement for the installation of additional junction boxes or power supplies. The camera also features a Micro SD card for local on-board storage.

The camera is housed in a machined, anodized 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 (with overhead bracket option) is also available and the whole assembly is designed for ease of installation.

The new high resolution thermal camera, Imenco part 0534-6105, is based heavily on the original navy in-service, medium resolution thermal camera, Imenco part 0482-6013, that has been fully qualified to meet the stringent US Navy requirements of MIL-STD-901D 'Hammer' shock test, MIL-STD-167-1A shipboard vibration and MIL-STD-461E EMI for surface ships.

For further information, email
systems.uk@imenco.com



Applications

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

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Technical Specifications

Performance, Electrical & Network	
Sensor Resolution	640 (H) x 480 (V)
Sensor Type	Amorphous silicon based focal plane, 17um pitch
Sensor Sensitivity	<40mK, typical F1.0
Sensor Spectral Response	7 µm to 14 µm (Long Wave Infra-Red)
Zoom	4x digital
Video Compression	H.265, H.264 and MJPEG
Video Streaming	Multiple simultaneous streams
Frame Rate	Up to 30 fps at 640 x 480
Networking	10/100/1000 Base-T Ethernet, ONVIF support, Milestone XProtect® compatible
On-board Storage	Micro SD/SDHC card slot (32GB fitted)
Power Input	Power over Ethernet (PoE) (IEEE802.3af Class 3), 15.4W Max
Electro-Magnetic Compatibility	(Designed to) MIL-STD-461E, Surface Ships
Optical	
Standard Lens	14.2mm, F/1.2 (42° Horizontal FoV), Athermalised; other options available on request
Focus	Fixed 1.2m to infinity
Mechanical	
Diameter	74 mm (camera, excluding connector)
Length	224 mm (camera, excluding bulkhead mounting bracket)
Weight	1.3Kg camera (3Kg bulkhead mounting bracket & tapping pad)
Standard Housing	Aluminium alloy 6082T6 to BS1470, clear anodized and painted grey FED-STD-595 #26307 polyester powder semi-gloss paint top coat
Window	Germanium
Connector Type	D38999/20FB35PN
Environmental	
Housing	IP67 (1m immersion)
Temperature	(Designed to) MIL-STD-810F Operating: -40°C to +60°C / 95% RH, Storage: -40°C to +70°C
Vibration	(Designed to) MIL-STD-167-1A Shipboard, 4 to 33Hz
Shock	(Designed to) MIL-S-901D, Grade B, Class 1, Type A
Salt Fog	(Designed to) MIL-STD-810F, Method 509.4

Specification subject to change without any further notice

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