

Certificate No: TAA000033C

# TYPE APPROVAL CERTIFICATE

This is to cer	tify:	
That the Securit	y/ Surveillance Camera	
with type designa	tion(s)	
POE Camera Sy		
Issued to		
Imenco Uk	Ltd.	
Aberdeen, Ur	nited Kingdom	
is found to compl  DNV rules for o	y with classification – Ships, offshore units, and h	igh speed and light craft
Application :		
Product(s) appr	oved by this certificate is/are accepted for	installation on all vessels classed by DNV.
Location classe	s:	
Temperature Humidity Vibration EMC	D B A B	
Enclosure	C / IP66	
Issued at <b>Høvik</b> This Certificate is DNV local station	valid until <b>2027-09-14</b> .	for <b>DNV</b>
Approval Engineer: Martin Skårerverket		Frederik Tore Elter Head of Section

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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



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# **Product description**

The Imenco POE Camera System consists of:

Imenco Model No.	Name	Description
0482-6030	Marine HD PoE Camera Mk2	The Marine HD PoE Camera Mk2 is a colour camera with day/night sensor, remotely adjustable varifocal lens and built-in IR illumination, it is capable of HD video output over an industry-standard IP video stream. It is designed for use in air, primarily abovedecks. It includes a robust and versatile mounting bracket for ease of installation and a IP67 rated marine grade 316L Stainless Steel, Electro-polished housing.  Power input: Power over Ethernet+ (PoE+) (IEEE802.3at Class 4), 25.5 W Max.
0527-6013	External Compact Marine PTZ HD IP Camera	The External Compact Marine PTZ Camera is an in air high-definition Power over Ethernet ultra-rugged marine 3MP IP colour Pan, Tilt & Zoom CCTV camera with integrated pedestal assembly and a IP67 rated marine grade 316L Stainless Steel Electro-polished housing.  Power input: PoE++ (IEEE 802.3bt) 60W for standard camera, 90 W required for illuminator options.

Compass safe distance:

Standard: 400 mm Steering: 300 mm

## Place of manufacture

Imenco UK Ltd. Airport Industrial Estate Wick KW1 4QS UK

DNV ID: 10724548 Alpha House Blacknest Road Blacknest Alton Hampshire GU34 4PX

UK

## **Approval conditions**

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

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## Type Approval documentation

Test reports:  MS Testing Marine Type Approval Test Report – Imenco MS Testing Salt Mist test report – Imenco MS Testing IPX6 test report - Imenco MK2 Heater Camera MS Testing IPX6 Test report - Imenco MK2 Standard Camera MS Testing IPX6 Test report - Imenco Compact PTZ Camera 0482-6030 mk2 - IP 67 Test result Declaration of IP Rating (Imenco 0527-6013)	Number TL21090 TL21090 SALT MIST TL22271A TL22271B TL22271C DDTR0016 121	Rev. / Date 2 / 2021-08-21 1 / 2021-08-18 1 / 2022-08-02 1 / 2022-08-02 2 / 2022-08-22 2020-10-13 1 / 2021-02-01
Drawings/Datasheets:  External Compact Marine PTZ Camera St/St ICD  Marine HD PoE Camera Mk2 - Standard ICD  Marine HD PoE+ Camera Mk2 - Heater ICD  Datasheet - Imenco 0482-6030 Marine 5MP PoE+ camera  Datasheet - Imenco 0527-6013 External Compact Marine  PTZ HD IP Camera	0527-6013-101 ICD 0482-6030-0201 ICD 0482-6030-0206 ICD 0482-6030 0527-6013	A / 2021-04 A / 2021-10 A / 2021-10 C H
Specifications: Product Specification - 0482-6030 Marine HD PoE Camera Mk2 Technical File and Declaration of Conformity - 0482-6030 Marine HD PoE Camera Mk2 Technical File and Declaration of Conformity - 0527-6013 PTZ Camera	0482-5111 0482-5091 0527-5004	A / 2022-02 A / 2021-12 A / 2022-01

Type approval assessment report for TAA000033C, Area UK IE CMC VMC 2022-03-01

#### **Tests carried out**

Applicable tests according to class guideline DNV-CG-0339, August 2021.

For the bridge mounted components the 'Acoustic noise and signals' and the 'Compass safe distance' were measured according to sections 11.1 and 11.2 of IEC 60945, 4<sup>th</sup> edition (2002).

#### Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

#### Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

**END OF CERTIFICATE** 

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