



***This Confirmation of Product Type Approval is valid only as of 03/DEC/2008
for the below listed product.***

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This is to certify that, pursuant to the Rules of American Bureau of Shipping (ABS), on 03/DEC/2008 the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) and a valid Product Design Assessment (PDA) for the below listed product, entitling the product to type approval.

The validity of the Manufacturing Assessment is dependent on satisfactory audits as required by the Rules.

The Product Design Assessment is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product. For Date of ABS Rules used for evaluation; Please refer to the ABS Rules below. ABS makes no representations regarding type approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

FLIR SYSTEMS, INC.

Model Name(s): 432-0001-09-00 (NAVIGATOR II)

Presented to:

FLIR SYSTEMS, INC.
70 CASTILLIAN DRIVE
GOLETA
CA 93117
United States

Intended Service:

Marine & Offshore Application, suitable for use on vessels ranging from sportfishing boats, luxury yachts, work boats, police and fire boats, tankers, freighters ,cruise ships, etc. and Offshore installations.

Description:

The Navigator II is a thermal imager designed for use in navigation and collision avoidance. The Navigator II allows the citing of floating debris, channel markers, and other boats in total darkness and reduced visibility, Navigator II has two configurations: the static, fixed-forward configuration, or the full pan/tilt system.

Ratings:

Input Voltage: 12VDC. Operating Temperature: -25° C to 55° C. Ingress Protection: IP66

Service Restrictions:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

Not to be used in areas classified as explosive (hazardous). For use in safe areas only.

Notes / Documentation:

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

Term of Validity:

This Design Assessment Certificate number 08-HS376143-PDA, dated 19/Sep/2008 will expire on 18/Sep/2013 or at an earlier date should there be

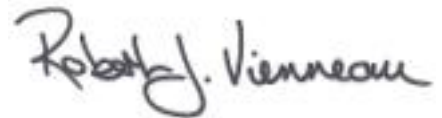
alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2009, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

ABS Rules:

2008 Steel Vessel Rules 1-1-4/7.7, 4-9-7/Table 9 (Test Nos. 11, 12, 13, 14, 15, 17 and 18)

National Standards:**International Standards:****Government Authority:****EUMED:****Others:**

Manufacturer's Specification 432-0001-00-09 dated 19 June 2008



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.