



Type Approval Certificate

[Marine Monitors]

Initial Approval 30 June 2025
Manufacturer Mariner Systems (UK) Ltd.
 Oaklands Park, Wokingham, Berkshire, RG41 2FD, United Kingdom
Product Description Monitor for Marine Computer
 - Model : HP Series 5 Pro 23.8" FHD Monitor - 524pf

" See Appendix 1 "

Approval Condition " See Appendix 1 "

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt. 6, Ch. 2, Art. 301 of the Rules for Classification, Steel Ships.

This Certificate is valid until 29 June 2030

Issued at Busan, Korea on 30 June 2025



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No(ME25028471060) and certificate No.(LDN04977-AC124).



KOREAN REGISTER

*General Manager of
Marine & Ocean Equipment Team*

Note : 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
 2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
 3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
 4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Product Description and/or Approval Condition

Date of Issue : 30 June 2025

A. Product Description

1. Product Specification

- 1) Product Type : HP Series 5 Pro 23.8" FHD Monitor - 524pf
- 2) General Specification :
 - Display Size : 60.5 cm (23.8")
 - Power Source : 100-240VAC 50/60 Hz
 - Power Consumption : Max. 58 W
 - Operating Temperature : 5°C ~ 35°C
 - Monitor Mariner Kit' : MS1830 (Desk Mount), MS1835 (Wall Mount), MS1840 (Console Mount)

Note 1) HP Series 5 Pro Monitor must be used in conjunction with the Mariner Kit.

3) Compass Safety Distance

Type	1 degree deflection (Steering)	0.3 degree deflection (Standard)
HP Series 5 Pro 23.8"	600mm	800mm

2. Approved Drawings and Documents

- 1) Drawings
 - QuickSpecs for HP Series 5 Pro 23.8" No. c09003642 ? DA17353 Ver.2, dated 2024-11-22
 - MS1830 ASSEMBLY, Drawing No. MS1830_A Issue 1, dated 2025-03-10
 - MS1835 ASSEMBLY, Drawing No. MS1835_A Issue 1, dated 2025-03-10
 - MS1840 ASSEMBLY, Drawing No. MS1840_A Issue 1, dated 2025-03-10

3. Test Reports, etc.

- 1) Test Reports
 - Test Report No. TL25012 issued by MS Testing, dated 2025-04-23

B. Approval Condition

1. Application & Limitation

- 1) This Approval is granted on the basis of the test reports and the approved documentation.
- 2) Degree of protection is to be complied with Rule Pt.6 Ch.1 Sec.2 201.2. (5).
- 3) The manufacturer is to inform this Society of all kinds of revisions of the equipment including the major changes of software. If the changes are recognized to affect functionality of the approved equipment, type test to confirm the reliability of the revised equipment may be performed in the presence of our surveyor.
- 4) When this system is installed in the vicinity of a standard or a steering magnetic compass, it is to have the minimum safe distance stated in Product Description or more at which it may be mounted from such compasses.

2. Individual Product Cert. and Drawing Approval Requirement

- 1) Individual Product Certification is not required.

3. Marking

- 1) The product or packing is to be marked with manufacturer's name and type designation on a suitable position.

4. Others

- 1) Test condition (IACS UR E10 Rev.10)

Test	Condition	Remark
EMC	All locations including the bridge and deck zone	-
Temperature	-25 ~ +70°C	-
Vibration	Acceleration $\pm 0.7g$	-

< End of certificate >