



Certificate number: 81179/A0 BV

File number: MPA2501701

Product code: 4483H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

MARINER SYSTEMS (UK) Ltd

Wokingham - UNITED KINGDOM

for the type of product

DISPLAY MONITORS / VIDEO SCREENS / TERMINALS

HP Series 5 Pro 524pf FHD 23.8-inch Monitor(9D9L6XX)

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

EC Code : 31B/41B

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 31 Oct 2030

For Bureau Veritas Marine & Offshore,

At BV LONDON, on 31 Oct 2025,

Spencer Yule

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <https://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=xhodvglwih>

BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Model: HP Series 5 Pro 524pf FHD 23.8-inch Monitor(9D9L6XX)

Technical Specifications:

- Display Size : 60.5 cm(23.8")
- Display Contrast Ratio : 1500:1
- Display Port : 1 Display Port™ 1.2
- HDMI : 1 HDMI 1.4
- Power Source : 100-240 VAC 50/60Hz
- Power Consumption : 58W
- Operating Temperature : 5 ~ 35°C

2. DOCUMENTS AND DRAWINGS :

- Technical Specification HP Series 5 Pro 23.8" FHD Monitor -524f No. DA17353 dated November 22, 2024
- Mariner Systems No. MS1830_A dated 10 March 2025
- Mariner Systems No. MS1835_A dated 10 March 2025
- Mariner Systems No. MS1840_A dated 10 March 2025
- Marine Type Approval Test Requirements-issue18 dated March 2025

3. TEST REPORTS :

- Test Report No. TL25012 issue 1 dated 23 April 2025

4. APPLICATION / LIMITATION :

- 4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.
- 4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.3 - BUREAU VERITAS Environmental Category, **EC Code: 31B/41B**
- 4.4 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone.
- 4.5 - The equipments comply with the test requirements of IEC 60945 4th edition.
- 4.6 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 9

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The above types of product are to be supplied by **Mariner Systems(UK) Ltd** in compliance with the type described in this certificate.
- 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.
- 5.3 - **Mariner Systems(UK) Ltd** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.
- 5.4 - For information, **Mariner Systems(UK) Ltd** has declared to Bureau Veritas the following production site(s):

Mariner Systems(UK) Ltd
Oaklands Park
RG41 2FD Wokingham
Berkshire
UNITED KINGDOM

6. MARKING OF PRODUCT :

- Trade name.
- Date of manufacture and serial number.
- Equipment type or model identification under which it was type-tested

7. OTHERS :

It is **Mariner Systems(UK) Ltd's** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***