



Marine & Offshore

Certificate number: 53187/A0 BV

File number: AP4781

Product code: 4483D

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 EliteDisplay E233 /E243i / E273

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

EC Code: 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: 03 Aug 2023

For Bureau Veritas Marine & Offshore,

At BV LONDON, on 03 Aug 2018,

Spencer Yule



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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

HP EliteDisplay E233 23-Inch Monitor completed with Mariner Systems Mounting Kits MS1530, MS1535 or MS1540
HP EliteDisplay E243i 24-Inch Monitor completed with Mariner Systems Mounting Kits MS1550, MS1555 or MS1560
HP EliteDisplay E273 27-Inch Monitor completed with Mariner Systems Mounting Kits MS1570, MS1575 or MS1580

The HP Elite Display must be used in conjunction with the appropriate Mariner Systems Kits:

MS1530, MS1550, MS1570- Desk mounted,
MS1535, MS1555, MS1575 - Wall mounted,
MS1540, MS1560, MS1580 - Console mounted

2. DOCUMENTS AND DRAWINGS:

Mariner Systems drawing MS1530_A, dated 01 February 2018
 Mariner Systems drawing MS1535_A, dated 01 February 2018
 Mariner Systems drawing MS1540_A, dated 26 January 2018
 Mariner Systems drawing MS1540_DD, dated 26 January 2018
 Mariner Systems drawing MS1550_A, dated 01 February 2018
 Mariner Systems drawing MS1555_A, dated 01 February 2018
 Mariner Systems drawing MS1560_A, dated 29 January 2018
 Mariner Systems drawing MS1560_DD, dated 29 January 2018
 Mariner Systems drawing MS1570_A, dated 01 February 2018
 Mariner Systems drawing MS1575_A, dated 01 February 2018
 Mariner Systems drawing MS1580_A, dated 31 January 2018
 Mariner Systems drawing MS1580_DD, dated 31 January 2018
 HP EliteDisplay E233, 23-inch Monitor QuickSpec DA16035 Version 4 dated 18 October 2017
 HP EliteDisplay E243i, 24-inch Monitor QuickSpec DA16037 Version 3 dated 8 September 2017
 HP EliteDisplay E273, 27-inch Monitor QuickSpec DA16078 Version 2 dated 30 November 2017

3. TEST REPORTS:

MS Testing :

HP Elite Display E243i Marine Type Approval Testing , Ref TL17145, dated 05 February 2018
 HP Elite Display E273 Marine Type Approval Testing , Ref TL17150, dated 05 February 2018
 HP Elite Display E233 Marine Type Approval Testing , Ref TL17146, dated 05 February 2018

4. APPLICATION / LIMITATION:

- 4.1 - BUREAU VERITAS Rules and Regulations for the Classification of Steel Ships.
- 4.2 - Approval valid for ships intended to be granted with the notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.3 - BUREAU VERITAS Environmental Category, **EC Code: 41B**
- 4.4 - The equipment fulfils the EMC requirements for installation on the Bridge and weather-protected Deck zones.
- 4.5 - For use in Navigation, Control, Loading Instrument & General Purpose Applications
- 4.6 - The minimum safe distance at which the equipment may be mounted from a standard or a steering magnetic compass is not to be less than 600mm.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The above products are to be supplied by **MARINER SYSTEMS (UK) Ltd.** in accordance with the type described in this certificate.
- 5.2 - This type of product is within the category DBV of Bureau Veritas Rule Note NR320.
- 5.3 - **MARINER SYSTEMS (UK) Ltd.** has declared to Bureau Veritas the following production site(s):

Mounting Kits :
MARINER SYSTEMS (UK) Ltd.
Oaklands Park
Wokingham
Berkshire
RG41 2FD
UNITED KINGDOM

Monitor :
HEWLETT PACKARD
PO Box 692000
Houston
Texas
77269-2000
UNITED STATES OF AMERICA

6. MARKING OF PRODUCT:

- Maker's name or trade mark.
- Serial number of the unit.
- 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 *****