

MARINE DIVISION

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Certificate number: 18885/A0 BV

File number : AP 1944

Product code : 4483H

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

TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Classification Rules

This certificate is issued to

MARINER SYSTEMS (UK) Ltd
Wokingham - UNITED KINGDOM

for the type of product

DISPLAY MONITORS / VIDEO SCREENS / TERMINALS

HP 20" TFT COLOUR DISPLAY - LP2065

Regulations and standards :

BV Rules for the Classification Of Steel Ships.

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.

This certificate is valid until : 16 Feb 2012

At Paris la Défense, on : 16 Feb 2007

For BUREAU VERITAS,
By order of the Secretary

L.COURREGELONGUE

Approval office



Local office : BV LONDON
Surveyor : S. 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. 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 Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS 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 SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

HP 20" TFT Colour Display - LP2065

The Hewlett-Packard 20" TFT Colour Display (LP2065) must be used in conjunction with the appropriate Mariner Systems Kits:

- MS980 - Desktop mounted
- MS985 - Wall mounted
- MS1070 - Console / Rack mounted

2. DOCUMENTS AND DRAWINGS :

HP LP2065 Flat Panel Monitor QuickSpec DA12377 dated 6th March 2006.

Mariner Systems drawing MS980_A Issue 1 dated 21st June 2006.

Mariner Systems drawing MS985_A Issue 1 dated 21st June 2006.

Mariner Systems drawing MS1070_A Issue 1 dated 21st June 2006.

3. TEST REPORTS :

Mariner Systems (UK) Ltd environmental test report TL1012 dated 29th June 2006.

4. APPLICATION / LIMITATION :

4.1 - Each display must be used in conjunction with the appropriate Mariner Systems Kits: MS980, MS985 or MS1070.

4.2 - For use in Navigation, Control, Loading Instrument & General Purpose Applications (except ECDIS).

4.3 - According to BV Rules for the Classification of Steel Ships.

4.4 - Approval also valid for ships to be granted with the notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The HP 20" TFT COLOUR DISPLAY - LP2065 is to be manufactured, examined and tested by **MARINER SYSTEMS (UK) LTD.**, in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

5.2 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end **MARINER SYSTEMS (UK) LTD.** has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 - Each equipment is to be supplied with manual(s) for installation, use and maintenance.

6. MARKING OF PRODUCT :

- Maker's name or trade mark.
- Serial number of the units.
- Equipment type or model identification under which it was type-tested.

7. OTHERS :

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **MARINER SYSTEMS (UK) LTD., Wokingham - United Kingdom**, will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

*** END OF CERTIFICATE ***