

MARINE DIVISION

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Certificate number: 15864/A1 BV

File number : AP1944

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 19" TFT COLOUR DISPLAY - L1940 & L1940T

Regulations and standards :

BV Rules for the Classification of Steel Ships,
IACS UR E10, IEC 60945

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 : 07 Oct 2010

At Paris la Défense, on : 25 Sep 2006

For BUREAU VERITAS,
By order of the Secretary

Approval office

Local office : BV LONDON
Surveyor : S. Yule



J. BENOIT



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 judgment, 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 19" TFT Colour Displays - L1940 & L1940T

The Hewlett-Packard 19" TFT Colour Display (L1940 & L1940T) must be used in conjunction with the appropriate Mariner Systems Kits:

MS970 - Desktop mounted
MS975 - Wall mounted
MS1060 - Console / Rack mounted

2. DOCUMENTS AND DRAWINGS :

HP L1940 Flat Panel Monitor QuickSpec DA12129 dated 20th December 2004.
Mariner Systems drawing MS970_A Issue 1 dated 1st March 2005.
Mariner Systems drawing MS975_A Issue 1 dated 1st March 2005.
Mariner Systems drawing MS1060_A Issue 1 dated 1st March 2005.

3. TEST REPORTS :

Mariner Systems (UK) Ltd environmental test report TL903 dated 15th March 2005.
Mariner Systems (UK) Ltd environmental test report TL1008 dated 11th May 2006.

4. APPLICATION / LIMITATION :

Each display must be used in conjunction with the appropriate Mariner Systems Kits: MS970 , MS975 or MS1060.
For use in Navigation, Control, Loading Instrument & General Purpose Applications (except ECDIS).
According to BV Rules for the Classification of Steel Ships.
Approval also valid for ships to be granted with the notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS**.

5. PRODUCTION SURVEY REQUIREMENTS :

Arrangements shall be made for a Society's Surveyor to carry out, on a periodic basis, visits of the Manufacturer's premises and product audits.
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 ***