

**MARINE DIVISION**

17 bis Place des Reflets - La Défense 2  
92400 Courbevoie - France

Tel. 33 1 42 91 52 91  
Fax. 33 1 42 91 28 94  
www.veristar.com



**Certificate number:** 20334/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 17" TFT Colour Display - L1750

**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 : 06 May 2013**

At Paris la Défense, on : 06 May 2008

**For BUREAU VERITAS,**  
*By order of the Secretary*

Approval office

Local office : BV LONDON  
Surveyor : S. Yule

L.COURREGELONGUE



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 17" TFT Colour Display - L1750**

The Hewlett-Packard 17" TFT Colour Display (L1750) must be used in conjunction with the appropriate Mariner Systems Kits:

MS1130 - Desktop mounted  
MS1135 - Wall mounted  
MS1140 - Console / Rack mounted

### **2. DOCUMENTS AND DRAWINGS :**

HP L1750 17-inch LCD Monitor QuickSpec DA12801 Version 4 dated 17th December 2007.  
Mariner Systems drawing MS1130\_A Issue 1 dated 21st January 2008.  
Mariner Systems drawing MS1135\_A Issue 1 dated 21st January 2008.  
Mariner Systems drawing MS1140\_A Issue 1 dated 21st January 2008.

### **3. TEST REPORTS :**

Mariner Systems (UK) Ltd. environmental test report TL1116 dated 11th February 2008.

### **4. APPLICATION / LIMITATION :**

Each display must be used in conjunction with the appropriate Mariner Systems Kits: MS1130 , MS1135 or MS1140.  
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 :**

5.1 - The HP 17" TFT Colour Display - L1750 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 - **MARINER SYSTEMS (UK) LTD** has declared to Bureau Veritas that the type of product described in this certificate is manufactured at the following production site:

**MARINER SYSTEMS (UK) LTD**  
**Oaklands Park**  
**Wokingham**  
**Berkshire**  
**UNITED KINGDOM**

5.4 - 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 unit.
- 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

Personal Computers 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 \*\*\***