



# DET NORSKE VERITAS

## TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. A-10079

This Certificate consists of 3 pages

*This is to certify that the*  
**Peripheral Equipment**

*with type designation*  
**HP LP2065 20" TFT Monitor**

*Manufactured by*  
**Mariner Systems (UK) Ltd.**  
Berkshire RG41 2FD, United Kingdom


*is found to comply with*  
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and  
Det Norske Veritas' Offshore Standards

*Application*  
Location classes:

Temperature	D
Humidity	B
Vibration	A
EMC	B
Enclosure	Required protection according to the Rules to be provided upon installation onboard

Approved **only** together with Mariner Kits shown on page 2

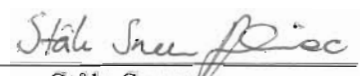
*Place and date*  
Høvik, 2006-08-30  
for DET NORSKE VERITAS AS

  
Knut Svein Ording  
Head of Section



*Local Office*  
DNV Newcastle-upon-Tyne

*This Certificate is valid until*  
2010-12-31

  
Ståle Sneer  
Surveyor

**Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.**

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



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## Product description

HP 20" TFT Flat Panel Monitor, model LP2065.

## Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

## Application/Limitation

Approval **ONLY** applies when used in conjunction with Mariner Kit: MS980 (desk-mount), MS985 (wall-mount) or MS1070 (console-mount).

## Type Approval documentation

Internet presentation: <http://marinersystems.com/>

Test report: TL1012, dated 29 June 2006

Datasheet: HP LP2065 2 QuickSpecs DA – 12377 Ver.3, dated March 6, 2006

Drawings: MS980\_A, MS985\_A, MS1070\_A, MS1070\_DD, all Issue 1

## Tests carried out

Applicable tests according to Standard for Certification 2.4, April 2006.

For the bridge mounted components the 'Acoustic noise and signals' was measured according to IEC60945 section 11.1.

## Certificate retention survey

The scope of the retention/renewal survey is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the survey are:

- Ensure that type approved documentation is available.
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines.
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications.



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- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given.
- Ensuring traceability between manufacturer's product type marking and the type approval certificate.

Survey is to be performed at renewal of this certificate.

END OF CERTIFICATE