



NIPPON KAIJI KYOKAI

Certificate *OF* **TYPE APPROVAL**

Applicant: Mariner Systems (UK) Ltd.

Place of manufacturing: Oaklands Park, Workingham, Berkshire, RG41 2FD, UK

Product description: HP L1950 and L1950g 19 inch TFT Monitor

Model: L1950 and L1950g
used with Mariner Kit MS1110, MS1115 or MS1120

Approval No.: 08A002

Specification & documents: As shown on the attached sheet (-1/2)

Test items & approval conditions: As shown on the attached sheet (-2/2)

THIS IS TO CERTIFY that the above mentioned model of the product has been type approved for modification with **Approval No. 08A002** by the NIPPON KAIJI KYOKAI in accordance with the requirements specified in Chapter1, Part 7 of Guidance for the approval and type approval of materials and equipment for marine use and relevant Society's Rules.

This certificate will remain in force until the 3rd February 2014.

Issued at Tokyo on the 21st August 2008.


S. Ogawa
General Manager,
Machinery Department



Specification & documents :

1. Ratings: AC 100-240V, 50/60Hz

2. Component and reference drawing:

Component	Drawing
HP 19 inch TFT Monitor L1950 and L1950g used with Mariner Kit MS1110(Desk mount), MS1115 (Wall mount)or MS1120(Console mount)	Quick Specs for L1950 and L1950g, MS1110, MS1115, MS1120

3. Test report :

Environmental Test File No. TL1114 (14 Jan. 2008)

Test items : Applied testing items are marked with X.

ENVIRONMENTAL TESTS		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature : 70°C x 16hours)		X
Damp heat tes		X
Vibration test		X
Inclination test		X
Cold test (Temperature : -25°C x 16hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test (Frequency : 30kHz~2GHz)		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test (Frequency : 10kHz~80MHz)		X
Burst/Fast transient immunity test		X
Surge immunity test		X
Radiated emission test (Frequency : 10kHz~2GHz)		X
Conducted emission test		X