

MS1060

Mariner Kit for use with the HP L1940 / L1940T
19-inch TFT monitor (Console mount)



The HP L1940 / L1940T 19-inch TFT monitors are type-approved by all of the major international marine Classification Societies when they are installed in conjunction with our Mariner Kit MS1060.

The MS1060 Mariner Kit is designed to fit into a console cut-out and affords protection against the effects of vibration and shock experienced in the offshore marine environment. The combination has been type-tested against IACS Unified Requirement E10 and the relevant sections of IEC60945 (see bottom right for test details).

This type-approved combination of hardware and Mariner Kit can be used as the platform for your critical navigation, control, loading and general purpose applications (please check individual type-approval certificates for any restrictions).

Please note that although the monitor does retain its standard functionality we do not offer an automatic dimming function and it can not therefore be used in the front of the bridge where it may affect night vision. However, the TFT monitor can be used in any area where night vision is not an issue.

**“World leading type-approved
computer hardware”**



WHAT IS SO SPECIAL ABOUT THE HP L1940 / L1940T 19-INCH TFT MONITOR?

- ◆ Slim, lightweight design compared to a 19" or 21" CRT monitor
- ◆ Native 1280 x 1024 resolution with over 16 million colours
- ◆ One 15-pin mini D-sub analog VGA and one DVI-D (VGA analog or digital) interfaces future proof your monitor investment
- ◆ The on-screen display button controls on the monitor front allows quick and easy adjustment of brightness, contrast and numerous other settings
- ◆ Reduced eyestrain and fatigue with anti-static and anti-glare film coatings
- ◆ New HP Display LiteSaver feature allows a Sleep Mode at preset times to be scheduled, helping to protect the display against image retention; drastically lower power consumption and energy costs; and extend the life of the monitor
- ◆ Environmentally sound design uses recyclable plastics for low emissions (TCO99 or TCO03 depending on region)
- ◆ Global product availability
- ◆ Three-year limited parts and repair labour on-site warranty

This Mariner system is type-tested against the consolidated, 'worst-case' requirements of all the major international marine Classification Societies:

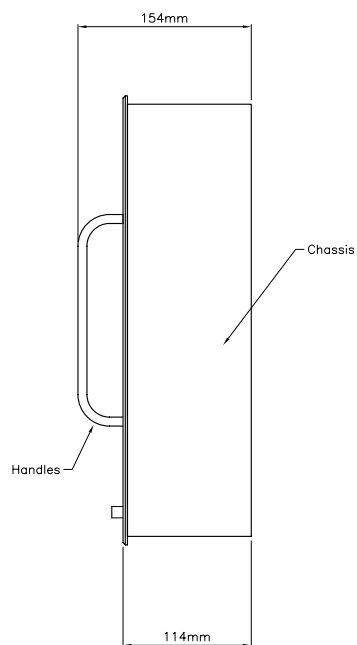
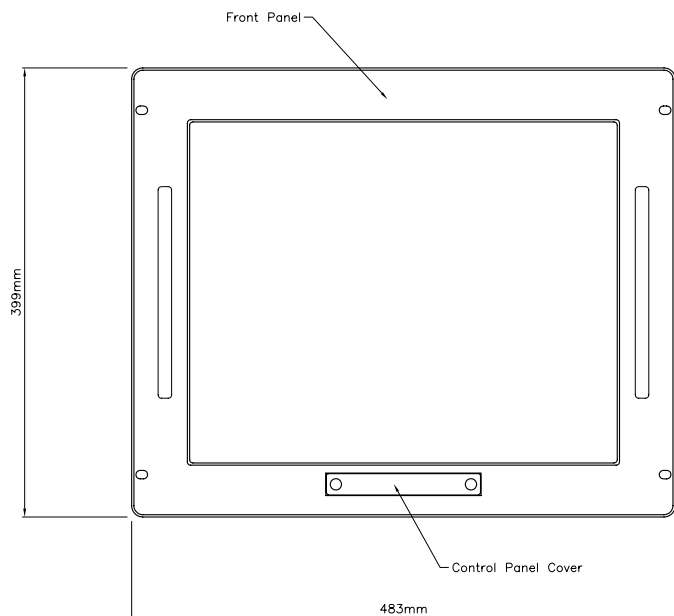
ABS, BV, CCS, DNV, GL, KR, LR, NKK, PRS, RINA

Type-tests included on the test programme are as follows:

- > Vibration, Shock, Static and Dynamic Inclination
- > Dry & Damp Heat, Low Temperature
- > Acoustic Noise, Compass Safe Distance
- > High Voltage, Power Supply Variation & Power Supply Failure
- > Conducted LF & RF, Electromagnetic Field
- > Radiated & Conducted Emissions, Electrostatic Discharge
- > Insulation Resistance, Burst / Fast Transients
- > Surge Immunity, Access to Dangerous Voltages

MSI060

Mariner Kit for use with the HP LI940 / LI940T 19-inch TFT monitor (Console mount)



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OPERATING GUIDELINES

Although all our equipment is tested against extreme environmental conditions for the purposes of marine type-approval, installation should take into account the following guidelines:

- > Keep the monitor away from excessive moisture, direct moisture and the extremes of heat and cold, to ensure that the unit is within the manufacturer's specified operating/non-operating ranges:

	Operating	Non-Operating
Temperature	+5° to +35°C (+41° to +95°F)	-20° to +60°C (-4° to +140°F)
Humidity	20% to 80% (non-condensing)	5% to 90% (non-condensing)

- > Leave clearance on all vented sides of the monitor to permit the required airflow
- > Never restrict airflow into the monitor by blocking any vents or air intakes
- > If the monitor is to be operated within a separate enclosure, suitable ventilation must be provided

By following these guidelines you will maximise the life of your equipment and minimise service costs.

STATISTICS

Overall Fitted Dimensions	483mm (w) x 399mm (h) x 154mm (d)
Weight (Mariner Kit only)	Approx 8.4 Kg
Weight (including hardware)	Approx 13.7 Kg
Type	Active matrix, thin film transistor (TFT)
Viewable Image Area	19 in (48.25cm) maximum viewable (diagonal)
Screen Opening	14.9 x 12.0 in (38.0 x 30.5 cm)
Recommended Resolution	1280 x 1024 @ 60 Hz
Viewing Angle (typical)	Up to 178 degrees horizontal / 178 degrees vertical (10:1 minimum contrast ratio)
Brightness (typical)	Up to 250 nits (cd/m ²)
Contrast Ratio (typical)	Up to 600:1
Response Rate (typical)	<25ms (rise + fall)
Pixel Pitch	0.294 mm
Colour Depth Support	16.7 million colours
Plug and Play	Yes (supports VESA DDC2B; PC2001 compliant)
Input Signal	Two connectors: one 15-pin mini D-sub analog VGA and one DVI-D (VGA analog or digital)
Video Cable Length	70.9 in (1.8 m); detached
Buttons or Switches	Power on/off; 4-button OSD
Power Supply	90 - 265 VAC; auto-ranging, internally integrated
Power Cable Length	70.9 in (1.8 m); detached

Design and specifications are subject to change without notice. E&OE.