

USER MANUAL

HD-SDI Display Models

27-1160 11.6" Display 27-1510 15.6" Display 27-1710 17.3" Display 27-2110 21.5" Display

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1 GENERAL

1.1 Forward

Founded in 1997, Nauticomp Inc. based in Canada, designs and manufactures the widest range of watertight sunlight readable displays for worldwide markets. Nauticomp Inc. is a fully accredited ISO 9001:2000 Company with regional offices located in the United States of America and Europe.

With respect to product innovation, all Nauticomp displays are constructed to meet NMEA6/IP67 standards associated with the Industrial and Marine markets. The Displays are easily integrated into applications due to the use of industry standard interfaces and are designed to comply with the communications standards CE: CISPR/ EN55022 & EN 60945.

In support of the above, we offer the added value of a global network of experienced Dealers and Systems Integrators to ensure customer satisfaction.

Please carefully read and follow the procedures stated in this manual.

1.2 Display Description

HD-SDI Displays offer the largest display in the smallest housing, minimizing overall dimensions, enabling multiple displays to be mounted and maximizing available space. The TFT LCD's used in the HD-SDI Series range from 15.6" through to 21.5" sunlight readable.

Each display is fitted with interface circuits that allow it to be connected with up to six (6) inputs ranging from HD-SDI video signal to SD cards. The display can accept signals of lower resolution, such as VGA. These signals are scaled so that they are displayed full screen.

Along with conventional LCD brightness and contrast controls, the display has an advanced backlight brightness dimming technique, using a front mounted potentiometer.

A unique but simple On Screen Display (OSD) user interface allows the user to adjust a wide variety of display parameters if necessary. Once the parameters are set they are stored in non-volatile EEPROM. This ensures that the set-up is retained after power is switched off.

All Displays are designed for operation from an external regulated 12.1V DC supply.

Nauticomp offers a wide range of external power supplies to match the power consumption requirements of individual applications – 12V DC, 24V DC & 110/230V AC.

Each HD-SDI Display is shipped with a 3 Year Limited Warranty 100% parts and labour.

1 **GENERAL** continued...

1.3 Contents of the Package

Each Display is shipped with:

Description	Part Number	Qty	Remarks
Power Cable	23-HDPOWER	1	Feed from Nauticomp Power Supply: Display input, barrel connector w/lock nut – Length approx. 10' (3m).
Power Supply 12.1V DC	As Specified	1	Either: 12V DC, 24V DC or 115/230V AC
HDMI to DVI Cable	23-HDHDMIDVI	1	Connects standard DVI signals. Length approx. 10' (3m)

1.4 Warnings

- 1.4.1 **Product Installation:** This equipment must be installed and operated in accordance with the Nauticomp instructions provided. Failure to do so could result in poor product performance, personal injury and/or damage to connected items.
- 1.4.2 **Electrical Safety:** Make sure you have switched off the power before you start installing this product. The display unit contains high voltages. Adjustments require specialized service procedures and tools only available to qualified service technicians. There are no user serviceable parts or adjustments. The user should never attempt to service the equipment doing so will void the products warranty.
- 1.4.3 **Navigation Aid:** When this display is used within a navigation system, it is only an aid to navigation. Its accuracy can be affected by many factors, including equipment failure or defects, environmental conditions, and improper handling or use. It is the user's responsibility to exercise common prudence and navigational judgments. This unit should not be relied upon as a substitute for such prudence and judgment. Always maintain a permanent watch so you can respond to situations as they develop.
- 1.4.4 **TFT Colour LCD Displays:** The colours of the Display may seem to vary when viewed against a coloured background or in coloured light. This is a perfectly normal effect that will be seen with all colour LCD displays. In common with all Thin Film Transistor (TFT) panels, the screen may exhibit a few (less than 7) wrongly illuminated pixels. These may appear as black pixels in a light portion of the screen, or as coloured pixels in black areas.
- 1.4.5 **EMC Conformance:** The design and manufacture of Nauticomp equipment and accessories conform to the appropriate Electromagnetic Compatibility (EMC) standards, but correct installation is required to ensure that performance is not compromised. Nauticomp displays are designed to comply with EN55022 Class A-Emission, EN 55024- Immunity Standards & EN 60945.

1.4.6 **Disposal: Waste Electrical and Electronic Equipment (WEEE) Directive**



This Product complies with the WEEE directive (2002/96/EC) marking requirements. The affixed label indicates that you must not discard this electrical/electronic product in domestic household waste. To dispose of your Nauticomp electronic product, please contact your local Nauticomp dealer, distributor, or the factory directly by visiting www.nauticomp.com.

1.4.7 **User Manual Content:** The technical and graphical information contained in this handbook, to the best of our knowledge, was correct as it went to press. However, our policy of continuous improvement and updating may change product specifications without prior notice. As a result, unavoidable differences between the product and handbook may occur from time to time. Nauticomp cannot accept liability for any inaccuracies or omissions it may contain.

1.5 Important Information

This User manual contains important information on the installation and operation of your new display. In order to obtain the best results in operation and performance, please read this User Manual thoroughly. Nauticomp's Technical Service representatives or your local dealer will be available to answer any questions you may have.

2 INSTALLATION

2.1 Handling Precautions

The casing of the Display gives good protection to its internal components. To prevent damage to the LCD Display, it is important to observe a few simple precautions.

- 2.1.1 Unpack your display carefully to prevent damage.
- 2.1.2 Save the carton and packing in case you need to return the Display for service.
- 2.1.3 If the surface is soiled, wipe lightly with clean absorbent cotton or other soft cloth.
- 2.1.4 The TFT panel and circuit boards contain devices that are sensitive to Electrostatic Discharge. Adequate ESD precautions should be taken during unpacking, handling and installation of the TFT monitor.
- 2.1.5 There are no user serviceable parts inside the monitor. All servicing must be carried out by qualified personnel.
- 2.1.6 The casing should never be opened by unqualified personnel, as there are potentially harmful voltages within this equipment.

2.2 Planning

Before you install your Display, plan the installation considering:

- 2.2.1 Display location and mounting options.
- 2.2.2 Power requirements.
- 2.2.3 Cable runs do not run video cables near any AC power sources.
- 2.2.4 Additional components e.g.

2.3 Power Requirements

The display requires an external, regulated 12.1V DC power supply.

To meet onboard requirements, Nauticomp offers a wide range of external power supplies to match the power consumption requirements of individual displays being - 12V DC, 24V DC, & 115/230V AC.

2.4 Grounding

It is important that an effective RF ground is connected to the display. You must ground the display by connecting the drain (earth) terminal directly on the Nauticomp power supply to the nearest RF ground source (superstructure). The length should be as short as possible.

CAUTION:

This Display is not intended for use on 'Positive' ground circuits. The power input cable Earth screen connections must be connected directly to a RF ground source.

2.5 DC Power Connections

The power connection to the Nauticomp Power Supply should be made at either the output of the battery isolator switch or at a DC power distribution panel. Nauticomp recommends that power be fed directly to the Nauticomp Power Supply via its own dedicated cable system. An in-line fuse is required to be installed on the positive (+) feed going to the Nauticomp provided power supply.

See table below for reference:

Vessel Power Source	Rating of Fuse
12 V DC	10 Amp
24V DC	5 Amp

2.6 Extending the Power Cable

Longer power cable runs may require larger wire gauges to minimize any voltage drop in the cable. Ensure that the minimum voltage specification of the display is met at the junction of these cables when the display is operating at full brightness. If a longer power cable run is required, use the supplied power cable to connect to the display unit. Then use a suitable connector block to connect the free end to the extension cable; take particular care to ensure correct polarity and grounding of the screening braid to an RF ground source. The supplied 3m power cable (Part # 23-HDPOWER) has a cross-section of 16 AWG.

2.7 Cable Runs

Consider the following before installing the Display:

- 2.7.1 All cables should be adequately secured, protected from physical damage and protected from exposure to heat. Avoid running cables through bilges, doorways, or close to moving / hot objects.
- 2.7.2 Acute bends must be avoided.
- 2.7.3 Where a cable passes through an exposed bulkhead or deckhead, a watertight feed-through should be used.
- 2.7.4 Make sure any excess cable is coiled and secured.
- 2.7.5 Do not run video cables near AC power sources or wires.

CAUTION:

Do not 'Pull' cables through the bulkheads, walls or tight spaces using a cord attached to the connector. This could damage the connections.

2.8 Display Location

2.8.1 **Viewing angle**: This LCD panel has been chosen to give the very best performance, including viewing angle. However, the contrast and colours seen on all LCD displays vary slightly with viewing angle.

Note: Viewing an LCD panel from the bottom angle (outside specified display viewing angle characteristic) is typically unacceptable.

- 2.8.2 **Access:** There must be sufficient space behind the display to allow cable connections to the rear connectors, avoiding tight bends in the cable. All connections are rear entry.
- 2.8.3 **Interference:** The selected location should be far enough away from devices that may cause interference, such as motors, generators and radio transmitter/receivers (see the EMC quidelines section 2.9).
- 2.8.4 **Magnetic compass:** Mount the display unit at least 3 ft (1m) away from a magnetic compass.
- 2.8.5 **Environment:** To prevent overheating, do not restrict airflow at the front or rear of the display unit; ensure there is adequate ventilation.

2 INSTALLATION continued...

2.8.6 **Heat Management:** The display is designed to work within most high ambient heat conditions. There are extreme yet rare conditions that may cause the display to go black or "Blackout". This is normally caused by concentrated and excessive UV rays (DIRECT SUNLIGHT) acting on the LCD panel.

To minimize the risk of the Display being subjected to the above one should endeavour to:

- 2.8.6.1 Employ additional cooling to assist with heat dissipation.
- 2.8.6.2 Provide additional shading.

2.9 EMC Guidelines

All Nauticomp Displays and accessories are designed to the best industry standards for use in the rugged electronic environment. The design and manufacture conforms to the appropriate Electromagnetic Compatibility (EMC) standards (Section 1.4.5 refers), but correct installation is required to ensure that performance is not compromised. Although every effort has been taken to ensure that they will perform under all conditions, it is important to understand what factors could affect the operation of the product. The guidelines given here describe the conditions for optimum EMC performance, but it is recognized that it may not be possible to meet all of these conditions in all situations. To ensure the best possible conditions for EMC performance within the constraints imposed by any location, always ensure the maximum separation possible between different items of electrical equipment.

For optimum EMC performance, it is recommended that where ever possible Nauticomp Displays and cables connected should be:

- 2.9.1 At least 3 ft (1 m) from any equipment transmitting or cables carrying radio signals e.g. VHF radios, cables and antennas. In the case of SSB radios, the distance should be increased to 7 ft (2 m).
- 2.9.2 More than 7 ft (2 m) from the path of a radar beam. A radar beam can normally be assumed to spread above and below the radiating element.
- 2.9.3 Supplied from a separate battery from that used for engine start. Voltage drops below 10 V, and starter motor transients, can cause the equipment to reset and or cause the loss of some information and may change the operating mode.
- 2.9.4 Used with Nauticomp specified cables. Cutting and rejoining (Splice) these cables can compromise EMC performance and must be avoided.

NOTE:

If a suppression ferrite is attached to a cable; this ferrite should not be removed.

2 INSTALLATION continued...

2.10 Mechanical Installation - Display

- 2.10.1 Surface Mounting
 - Step 1 Ensure display location has enough space for the display and cable connections.
 - Step 2 Refer to the display for cut-out dimensions. A thicker mounting material will require a larger opening for the input connections.
 - Step 3 Drill the 4 holes for the 8-32 mounting hardware.
 - Step 4 Place the display in the opening. Secure the display from the rear using 8-32 hardware. The hardware should not fasten into the display more than 0.500".

2.10.2 Ram Mounting

- Step 1 Install 'Ram Mount' bracket on rear of display using the four VESA mount PEMS.
- Step 2 Attach 'Ram mount' arm to bracket by unscrewing the giant wing-nut and placing over the pedestal ball.



Above Illustration - Installed 'Pedestal ball and Ram Mount"

2.11 Electrical Installation - Display

- 2.11.1 Cabling Electrical Supply
 - Step 1 Connect input voltage wires from the vessels power supply to the Nauticomp Power Supply.
 - Example: On DC systems connect the **RED** wire to the positive terminal and the **BLACK** wire to the negative terminal. Tighten connectors securely.
 - Step 2 Connect the wires from the Display Power Cable (Part # 23-HDPOWER) to the Nauticomp Power Supply. Connect the **RED** wire to the positive output terminal and the **BLACK** wire to the negative output terminal. Tighten the connectors securely.
 - Step 3 Connect drain (earth) to the nearest RF ground source (superstructure)



Example of Power Supply Terminations

CAUTION:

Versions of the Nauticomp AC Power Supply are NOT fully autoranging. Therefore you must ensure the correct input voltage via the 110V/230V selector switch found on the inside of the power supply. Nauticomp recommends using a thin-bladed screwdriver through the side hole to change selection. **This should not be done with ANY power connected to the unit.

CAUTION:

Nauticomp Power Supply, (DO NOT) adjust the potentiometer labelled 'V ADJ' - Factory Set 12.1V DC.

2 INSTALLATION continued...

2.11.2 Cabling - Connections

2.11.2.1	Power output from the provided Nauticomp Power Supply is to be 12.1V DC. Please check voltage before connecting to the Display for the first time.
2.11.2.2	To aid installation ALL inputs are labelled on the back panel.
2.11.2.3	All cables can only be installed one-way. Do not force any cables in.
2.11.2.4	Nauticomp power and HDMI to DVI cables have locking mechanisms to ensure proper installation.
2.11.2.5	All connectors must be connected to the output source before connecting to Display.



Above Illustration – Interface Connections (Rear Entry)

CAUTION:

Always connect all video input cables before connecting the power.

2.12 Recommendations for Input Source

All Nauticomp Displays comply with VESA DDC1/2B Windows Plug and Play. No driver disks are required. A computer running Windows 2000, XP and later versions may interrogate the display for its technical characteristics. For best results Nauticomp recommends that you set the PC or device to match the "native" resolution, and suggested frequency as suggested in section 6 of this manual. (see specifications for your particular display)

For Example: 1024 x 768 at 60Hz is the preferred resolution and refresh rate. Unlike CRT Displays, LCD displays do not flicker; hence selecting a higher refresh rate provides no advantage.

HDMI: Digital device connection, such as a digital cable box, with an HDMI or a DVI output. HDMI (High Definition Multimedia Interface) provides an uncompressed digital connection that carries both video and audio data by way of an integrated mini-plug cable. Since HDMI technology is based on Digital Visual Interface (DVI), the jack on the back of your MONITOR is also compatible with DVI devices.

VGA: Analog device connection, such as a PC, or other device with a VGA output. The VGA uses a 15 pin D-sub cable.

AUDIO IN: Audio connection (optional). Use to obtain sound when a PC is connected to the VGA port. Use a 3.5 mm stereo mini pin cable (sometimes referred to as 1/8" stereo mini pin) to connect a PC to your display.

USB/SD: Built-in MPEG-2/MPEG-4/H.264/RealMedia/AVS Video Decoder. Supports maximum resolution up to 1080p@30fps. Supported memory card capacity up to 32GB. Supported file types: AVI/MPG/MPEG/XVID /VOB/DAT/MP4/TS/M2TS/MKV/H.264/RM/RMVB.

HD-SDI: High Definition-Serial Digital Interface. An interface for professional broadcasting and surveillance systems that supports 720p/1080p digital signals. The Interface uses a coaxial cable, standard BNC interface. The nominal maximum distance is <100 meters.

Can support SD/HD-SDI camera.

3 OPERATION

3.1 Primary Control Functions

Each button performs a primary control function. The potentiometer dial controls the LED backlights from 0-100%.

Button Layout



Button – Primary Control Function (non Menu Mode)

The buttons are used to navigate the OSD. The left and right arrow are used to increase or decrease certain setting. The left and right are used to change cortain entions within the OSD.

certain options within the OSD.

MENU The menu button is used to activate the OSD. When the OSD is active, the menu

button is used to turn off the OSD.

ON/OFF The ON/OFF button is used to power the display ON or OFF.

AUTO The AUTO button is used to activate the auto picture setup. The AUTO button is

only active using an analog video source.

SWAP The SWAP button is used to change to the next video input.

Potentiometer Dial The Potentiometer Dial is used to increase or decrease the LED backlights. When

the indicator DOT is all the way to the left (counter-clockwise), the backlights are at 0%. When the indicator DOT is all the way to the right (clockwise), the

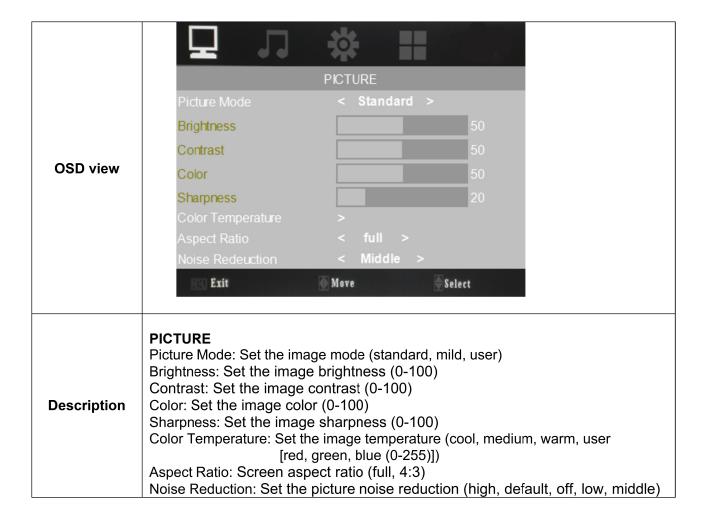
backlights are at 100%.

3.2 Overview – OSD Menu Mode

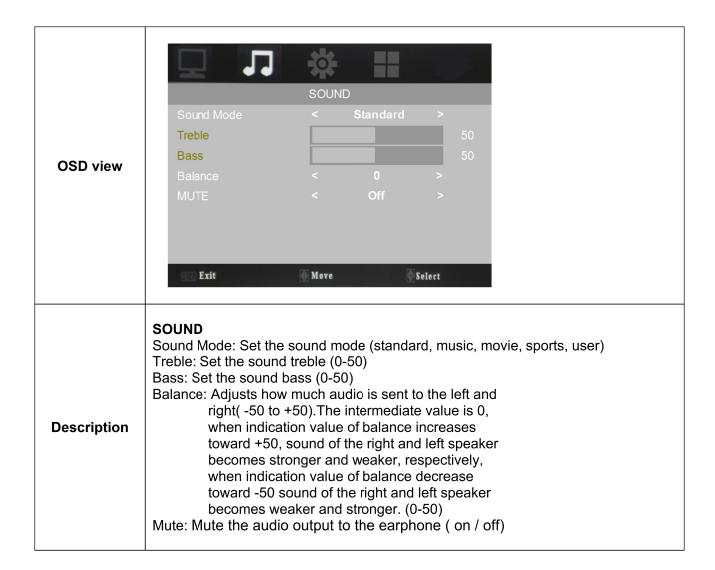
There are Four (4) different Menu Tabs:



3.3 Picture Menu

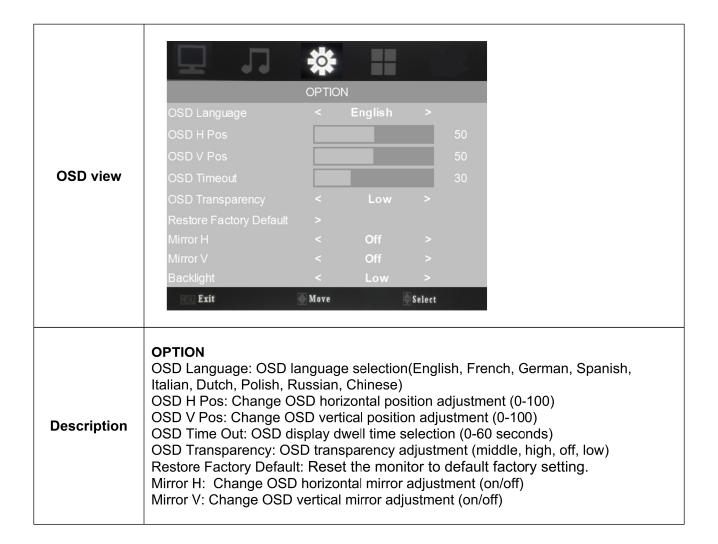


3.4 Sound Menu



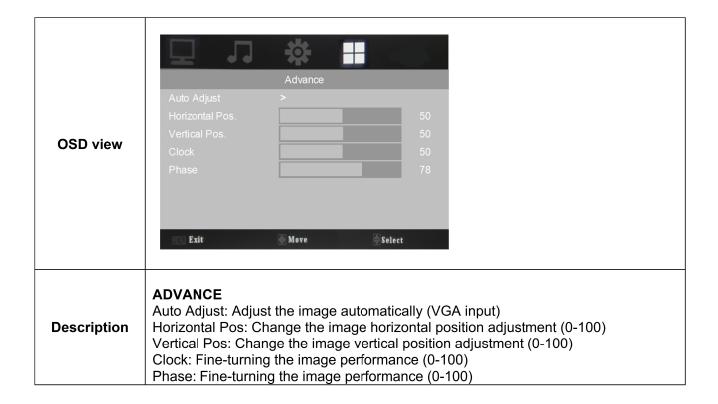
3 OPERATION continued...

3.5 Options Menu



3 OPERATION continued...

3.6 Advanced Menu



4 MAINTENANCE

4.1 Routine Maintenance

Good performance requires maintenance checks regularly. The following are recommended:

- 4.1.1 Check all cable connectors on the rear of the display to ensure they are secured.
- 4.1.2 Check the cable connectors on the external Nauticomp Power Supply. Inspect for corrosion on all connections Terminal contacts must be tightly fastened.
- 4.1.3 Examine all cables for signs of damage such as; chafing, cuts, nicks or corrosion.
- 4.1.4 Take care when cleaning the display. Wipe the LCD with clean, damp cloth to remove dust or salt deposits. Use an LCD cleaner to dissolve the debris and change the cloth frequently so as not to scratch or damage the glass. To remove grease marks, carefully apply a mild detergent solution or IPA (Isopropyl Alcohol).

CAUTION:

Ensure the Display is disconnected from power before carrying out routine maintenance.

CAUTION:

Do not wipe the Display with a dry cloth - As this could scratch the screen coating.

CAUTION:

Do not use Acid, Ammonia based or abrasive products.

4 MAINTENANCE continued...

4.2 EMC Servicing and Safety Guidelines

Only authorized Nauticomp service technicians should service Nauticomp Displays. They will ensure that service procedures and replacement parts used will not affect performance.

Kindly note the following:

- 4.2.1 There are no user serviceable parts in any Nauticomp Display or power supply.
- 4.2.2 Some products generate high voltages. Never handle the cables/connectors when power is being supplied to the equipment.
- 4.2.3 When powered up, all electrical equipment produces electromagnetic fields. These can cause adjacent pieces of electrical equipment to interact with one another with a consequent adverse effect on operation. In order to minimize these effects and enable you to get the best possible performance from your Nauticomp display, guidelines are given in the installation instructions (Section 2.9 refers), to enable you to ensure minimum interaction between different items of equipment, i.e. ensure optimum Electromagnetic Compatibility (EMC).
- 4.2.4 Always report any EMC-related problem to your Nauticomp dealer. We use such information to improve our quality standards.
- 4.2.5 In some installations, it may not be possible to prevent the equipment from being affected by external influences. In general this will not damage the equipment but it can lead to spontaneous resetting action, or momentarily may result in faulty operation.

5 TROUBLESHOOTING

All Nauticomp Displays are subjected to comprehensive testing and quality assurance programs. However, if this unit should develop a fault, please refer to the following table to identify the most likely cause and the corrective action required to restore normal operation.

If you still have a problem after referring to the table below, contact Nauticomp Technical Services Department for further advice.

Always quote the product serial numbers. Display unit serial number is printed on the back of the unit.

5.1 Common Symptoms and Possible Solutions

Symptom	Cause	Solution
Display will not power on?	12V DC Power Supply	Physically Check: a) Ensure power cable is installed securely on rear of display.
		 b) Ensure power cable is connected to power supply correctly.
		c) Ensure power supply is outputting 12.1 volts.
		d) Power cable for cut and nicks.
		e) For voltage at end of cable.
		f) To see if the fuse has blown.
No Video Signal?	1) Connections	Ensure video cable is connected securely to output device and the back of Display.
	2) Output Source	Ensure output device is powered on and working correctly with another display if possible.
Poor Video Signal?	1) Connections	Ensure video cable is connected securely to output device and back of display.
	2) Interference	Physically Check: a) Ensure cables are not run close to high power output devices, and are not making sharp angles.
	3) Resolution	Ensure: a) Output device is in proper resolution for the display you are running.
		b) Pins on the interface cables are not bent.

5 TROUBLESHOOTING continued...

Symptom	Cause	Possible Solution
Screen Blacking Out?	g Out? Excessive UV Rays	If LCD does black out the Display needs to be shaded until picture returns to normal.
		Once the affected area's temperature decreases normal operation will resume.
Display seems dim?	Backlight Brightness to low	 a) Turn potentiometer (dial), clockwise to brighten up display.
		b) In high ambient light conditions adjust the LCD panel Brightness & Contrast.
Display searching through sources and	1) Auto setting in Input Tab is enabled	Select PIP or no PIP in sources option in the input tab.
will not stop?	2) Display does not see sources	Be sure that inputs are turned on and outputting video.
Black square in corner of display?	PIP window with no input	When PIP is not on always run display in no PIP mode.

6.1 **Declaration of Conformity**



Declaration of Conformity

We, Manufacturer

Nauticomp Inc.

8 Callaghan Road, Lindsay, Ontario, Canada, K9V4R4

Declare under our sole responsibility that the Infinity, Signature, Glass Bridge and Signature Series II line of displays are in conformity with the following standards

> EN 55022 Class A- Emission EN 55024-Immunity

President

Nauticomp Inc.

Michael K. Theriault Technical Advisor Nauticomp Inc.

Date: July 28th/2008



6.2 Warranty Certificate

The Nauticomp Warranty terms and conditions as described below do not affect the customer's statutory rights:

Limited Warranty

Nauticomp warrants each new HD-SDI Display to be of good materials and workmanship.

Nauticomp or its approved agents will repair or exchange under warranty any parts proven to be defective in material or workmanship under normal use, for a period of 3 years/36 months from date of shipment from

material or workmanship under normal use, for a period of 3 years/36 months from date of shipment from Nauticomp. Nauticomp Limited Warranty covers the parts and labour associated with any warranty repair as described above, provided that the unit is returned to Nauticomp or one of its appointed agents.

6.3 Warranty Limitations

Warranty Limitations

Nauticomp Warranty policy does not apply to equipment that has been subjected to accident, abuse or misuse, shipping damage, alterations, corrosion, incorrect and/or non-authorized service, or equipment on which the serial number has been altered, mutilated or removed. Nauticomp assumes no responsibility for damage incurred during installation or as a result of improper installation. This Warranty does not cover routine system checkouts, alignment/calibration, sea-trials or commissioning.

A suitable proof of purchase, showing date, place, and serial number must be made available to Nauticomp or authorized service agent at the time of request for Warranty service. Overtime/premium labour portion of services outside of normal working hours is not covered by this Warranty. Travel cost allowance on certain products with a suggested retail price below \$2500.00 is not authorized. When/or if repairs are necessary, these products must be forwarded to a Nauticomp facility or an authorized dealer at owner's expense and then will be returned via surface carrier at no cost to the owner. Travel costs other than auto mileage, tolls and two (2) hours travel time, are specifically excluded on all products. Travel costs, which are excluded from the coverage of this Warranty, include but are not limited to: taxi, launch fees, aircraft rental, subsistence, customs, shipping and communication charges etc. Travel costs, mileage and time, in excess to that allowed must have prior approval in writing.

To the extent consistent with state and federal law.

- 6.3.1 This warranty is strictly limited to the terms indicated herein, and no other warranties or remedies shall be binding on Nauticomp including without limitation any warranties of merchantable or fitness for a particular purpose.
- 6.3.2 Nauticomp shall not be liable for any incidental, consequential or special (including punitive or multiple) damages.

All Nauticomp products sold or provided hereunder are merely aids to navigation. It is the responsibility of the user to exercise discretion and proper navigational skill independent of any Nauticomp equipment.

6.4 Return of Goods Information (RMA)

Obtaining Warranty Service

In the event of Warranty service being required, contact Nauticomp directly. A suitable proof of purchase, showing date, place of purchase, and serial number must be made available to Nauticomp or authorized service agent at the time of request for Warranty service.

Note

Make sure to call Nauticomp Technical support to obtain an RMA Number before returning ANY defective product to Nauticomp. Failure to do so may result in rejection of shipment.

6.5 Document Revision History

The current issue is the last on the list.

Revision	Date	Author	Checked & Approved
1	January 7 th 2022	N. Johnson	

Canadian Headquarters:

United States:

6.6 Contact Details

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<u>6</u>	APPENDIX continued
6.7	Product Notes:



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