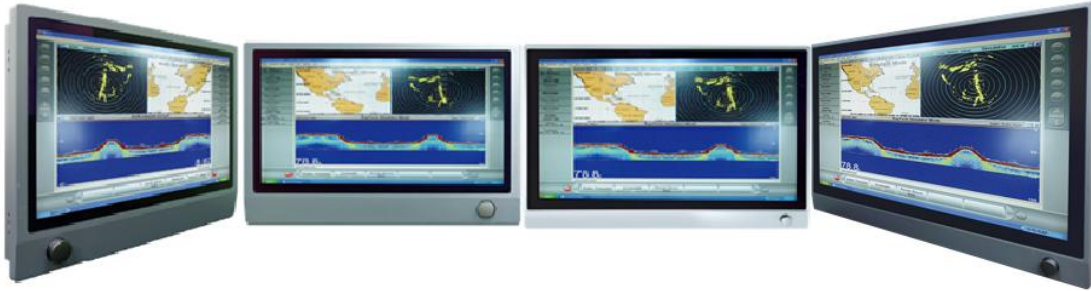




Navpixel™ USER MANUAL



NPD1569- 15.6" IP-65 Marine Display
NDP2706- 27" IP-65 Marine Display

(1st Edition 9/17/2026)

All information is subject to change without notice.

RECORD OF REVISION

Version and Date	Page	Old Description	New Description	Remark
Sept.17 2026	all		Preliminary Release	

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IMPORTANT INFORMATION

EMC conformance

All Navpixel equipment and accessories are designed to the best industry standards for use in the recreational marine environment. The design and manufacture of Navpixel equipment and accessories conform to the appropriate ElectroMagnetic Compatibility (EMC) standards, but correct installation is required to ensure that performance is not compromised.

Waste Electrical and Electronic Equipment Directive



The Waste Electrical and Electronic Equipment (WEEE) Directive requires the recycling of waste electrical and electronic equipment. Whilst the WEEE Directive does not apply to some of Navpixel's products, we support its policy and ask you to be aware of how to dispose of this product.

The crossed out wheeled bin symbol, illustrated above, and found on our products signifies that this product should not be disposed of in general waste or landfill. Please contact your local dealer, national distributor or Navpixel Technical Services for information on product disposal.

Restriction of the use of certain Hazardous Substances



This product uses components that comply with the requirements of the Restriction of the use of certain Hazardous Substances (RoHS) Directive 2002/95/ EC.

Warranty

To register your new Navpixel product, please go to:

www.litemax.com/tw/search/product/?keyword=NPD

It is important that you complete the owner information to receive full warranty benefits, including notification of software updates if they are required.

Packing List

Before installation, please ensure the following items have been shipped:

- 1 x Navpixel Series Marine Display
- 4 x Mounting bracket lugs and 4 stainless steel threaded studs
- 1 x Power Cable (5000 mm)
- 1 x VGA Cable (3000 mm)
- 1 x CD for User Manual and Touch Driver
- 1 x Printed Flush Mount Template
- 1 x Printed User Manual

If any of these items should be missing or damaged, please contact your distributor or sales representative immediately.



Ordering Information

Model Number & Description

NPD1569-ITA-P01

15.6", Sunlight readable LCD, Optical bonding PCT touch, 9~36V DC wide range input power

NPD2706-ATA-P01

27" Sunlight readable LCD, Optical bonding PCT touch, 9~36V DC wide range input power

Optional Accessories

112615315401 x (4) Metal,SPCC,NPS,1531,Lock,V0,P

214032121101 x (4) Screw,M4,32mm,Round,Ni,P

460100002101 x (4) Fixture,other,MP-4,V0,P

810618301010 CABLE.POWER.AC.1830mm USA type

810618301090 CABLE.POWER.AC.1830mm Europe type

810618301050 CABLE.POWER.AC.1830mm UK type

810618301170 CABLE.POWER.AC.1830mm Australia type

810618301030 CABLE.POWER.AC.1830mm Japan type

1.0 INTRODUCTION

About Navpixel™ Marine Display

Navpixel™ Series Marine Display, the high-performance, equipped with optical bonding AR glass or sunlight readable touch monitor, is specially engineered to survive the most demanding applications. You will soon become familiar with the quality difference in this bright sunlight readable (0.5 to 1,000 nits) monitor.

The range of Navpixel Sunlight Viewable Marine Displays has been developed to be used as part of an integrated marine navigation system or within an entertainment system. The displays, available in several sizes, are designed to be waterproof and suitable for use above or below decks.

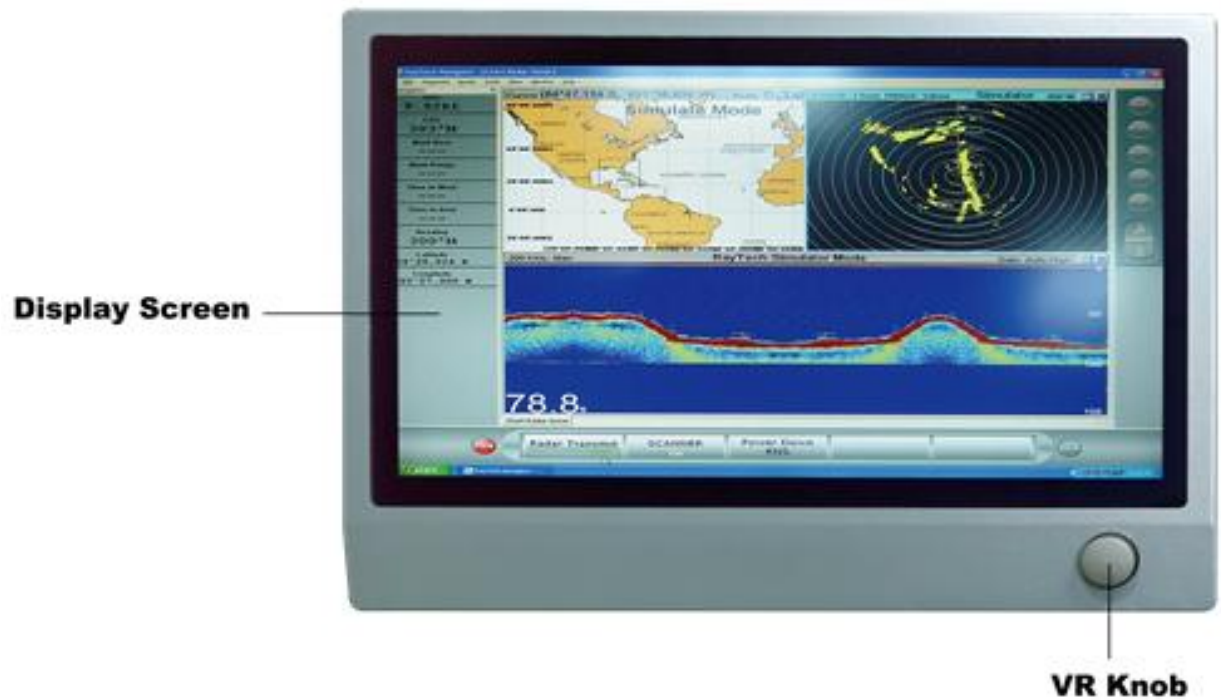
The Navpixel™ Series Marine Display sunlight readable monitor handles a wide-range of extreme environments making it the industry choice for mobile applications. Housed in a milled billet aluminum case, the slim-profile Navpixel™ Series Marine Display is light weight and watertight. Front-mounted controls and the touch screen make the industrial rugged monitor user-friendly. We have incorporated the latest optical engineering to achieve optimal viewability in all lighting conditions, including direct sunlight. The Navpixel™ Series Marine Display's power efficient, low heat design results in increased reliability and longevity required for mission critical deployment.

This handbook contains important information on the installation, operation and maintenance of the Navpixel Sunlight Viewable Marine Display range which is intended for use in the recreational marine market and covers all models.

2.0 CONTROL AND FEATURES

Your Navpixel Sunlight Viewable Marine Display has the following controls and features:

Front View



Back View



Remarks: VGAx1, DVI-Dx1, HDMIx1, DPx1, Compositex1, RS232x1, USBx1

3.0 INSTALLATIONS

It is important that your new display is installed and operated in accordance with the instructions provided in this handbook. Failure to do so could result in poor product performance and may invalidate your warranty.

When planning the installation the following points must be considered:

- Your Navpixel display is sunlight viewable and visible in direct sunlight..
- If temperatures exceed the normal temperature operating range the display could overheat and begin to blackout due to the limitations of TFT LCD technology.
- In order to minimize the chances of a malfunction, the following precautions should be taken during installation:
 - The display should be installed in an area where there is proper and adequate ventilation (min. 15cm clearance) . If it is possible to cool the area behind the display, it will significantly reduce the risk of a malfunction.
 - The display should be mounted at an angle to the sun. We do not recommend mounting the unit in a flat plane, which increases the surface area exposed to the sun and leads to increased heat absorption.

IMPORTANT: Your Navpixel display is only waterproof from the front. To maintain watertight integrity the display must be flush mounted ensuring that the rear casing is enclosed in a watertight enclosure.



The Navpixel™ Series Marine Display is designed to be mounted in two configurations:

VESA75 / VESA100 MOUNT

The Navpixel™ Series Marine Display is designed compatible with VESA75 and VESA100 mount. By installing the monitor with this kit, the user can adjust the viewing angle to improve viewability in changing environments. This mounting system has proven to be successful in supporting an extreme amount of weight in high vibration and difficult-mount applications.

The back of the monitor includes mounting points that you can use to mount the monitor as your installation requires.

Mounting holes on the Navpixel™ Series Marine Display allow the monitor to be mounted by rear mounted using VESA75 or VESA100 mount

PANEL (Flush) MOUNT

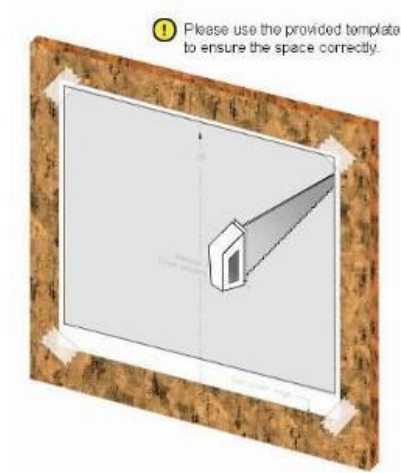
For installation, there are four tapped mounting holes on the two sides of the unit's panel. The mounting hardware packet is included with the product accessories in the shipping box. This packet includes four (4) stainless steel threaded studs, 3.2 cm and four (4) mounting lock nuts.

Your monitor can be installed using the mounting lock nuts (supplied) in the vertical keyways. Make sure that both brackets are in the same orientation.



Preparing the installation site

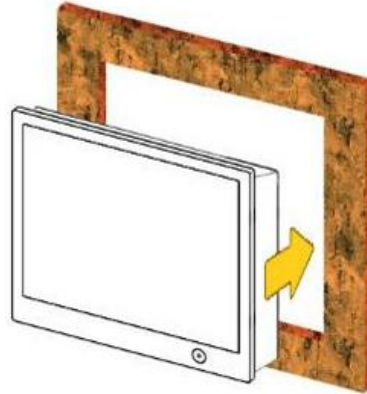
1. Select an installation site that has sufficient space behind for cable connections and ventilation.
2. Tape the supplied flush mount template in the required position.
3. Using a jigsaw, carefully remove the shaded portion of the template.
4. Using a suitable file, smooth the edges of the aperture.



Installing the display

1. Carefully insert the monitor into the aperture, ensuring that the gasket on the rear of the fascia lays flat against the aperture edge.

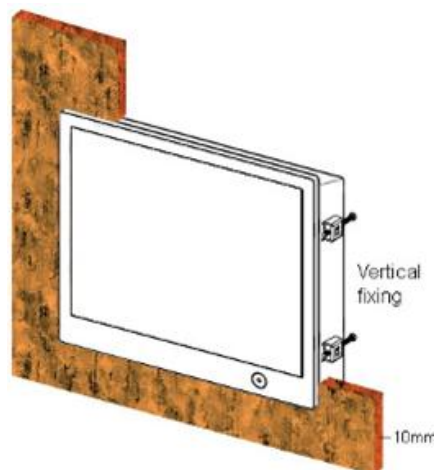
IMPORTANT: The gasket must lay flat against the aperture edge to ensure watertight integrity.



2. Place the mounting bracket lugs into the keyways and move them to the rear, securing the bracket to the monitor.

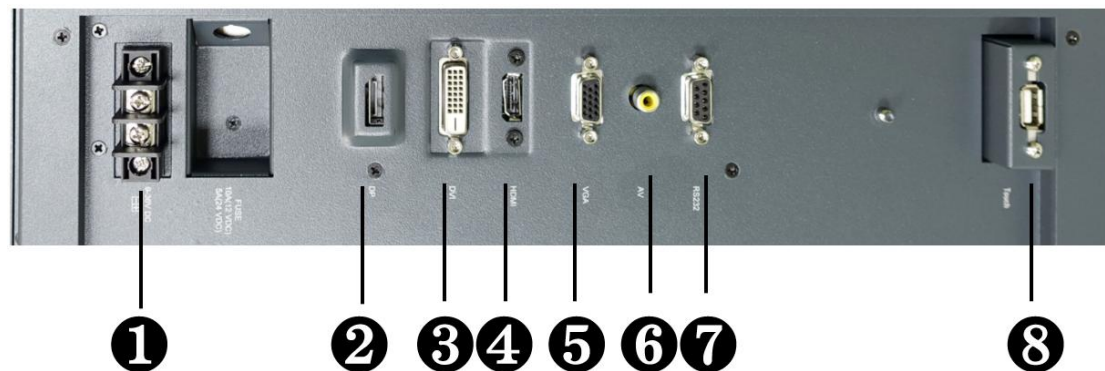
Note: *The mounting brackets can be used in either the horizontal or vertical keyways as required.*

3. Using a suitable screwdriver, tighten the mounting bracket screws to secure the monitor in position.



4. Connect all cables as required - see "Rear connections" below.

Rear connections



The rear connectors are:

1. Power Input
2. DP Input
3. DVI-D Input
4. HDMI Input
5. VGA Input
6. CVBS Input (Composite Video) for AV input
7. RS232 Input
8. USB for Touch control

Planning the installation

Before you install your display, the following points should be considered:

- Power requirements.
- Display location and mounting options.
- Additional accessories, e.g. keyboard or speakers.

Power requirements

Your Sunlight Viewable display is designed to run on boat's DC power systems rated at 12 V or 24 V. Navpixel Series Marine Display is equipped with 9-36V DC wide range power input and is capable for such kind of application.

The DC power system should be either:

- Negative grounded, with the negative battery terminal connected to the boat's ground,
- Floating, with neither battery terminal connected to the boat's ground.

Grounding the display

It is important that an effective radio frequency (RF) ground is connected to the display. You must ground the display by connecting the drain wire (shield) of the power input cable to the nearest ground point of the boat's RF ground system.

Display location and mounting options

Your display can be mounted using the flush mounting kit supplied. Navpixel recommends that you power the unit and select a suitable mounting location prior to installing the display.

When planning the display location, the following points should be considered to ensure safe, comfortable and reliable operation:

- **Convenience**- the mounting location should be easily accessible to allow operation of the controls and should enable easy viewing of the display.

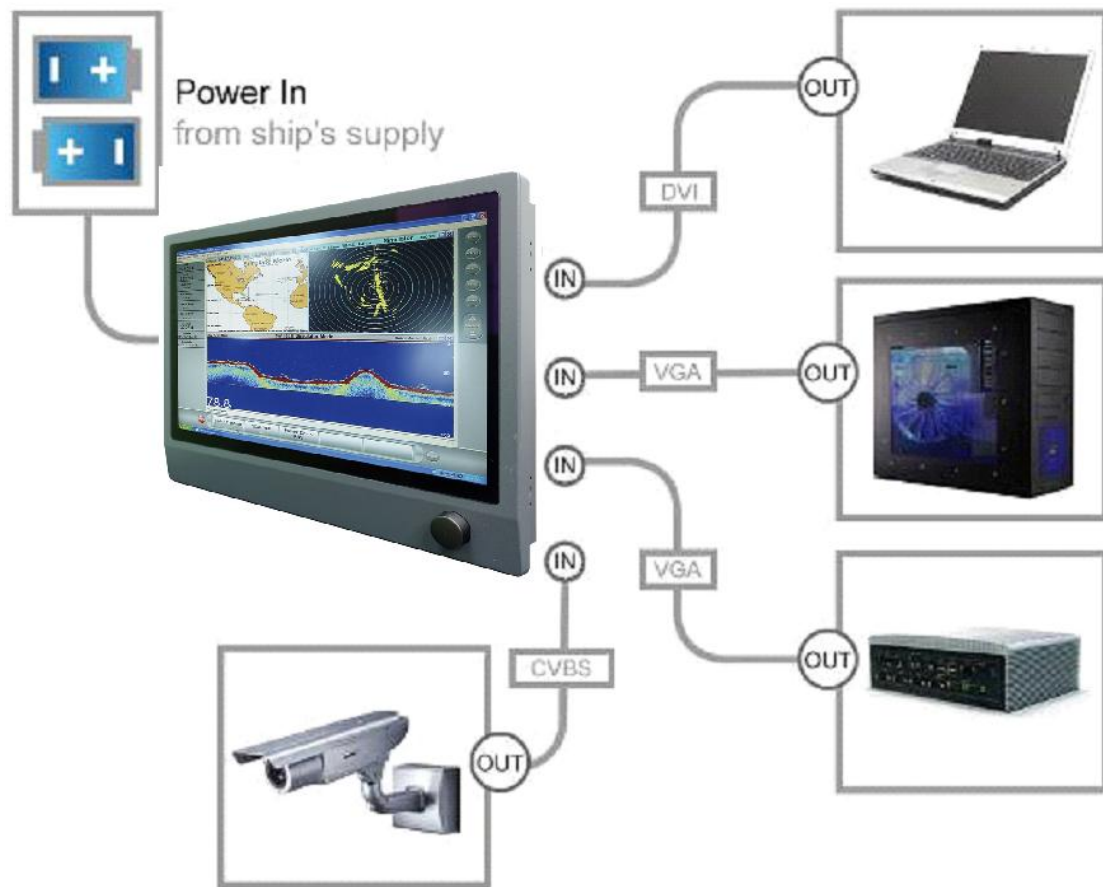
Power connections

The power connection to the display should be made at either the output of the battery isolator switch, or at a DC power distribution panel. Navpixel recommends that power is fed directly to the display via its own dedicated cable system and **MUST** be protected by a thermal circuit breaker or fuse, fitted close to the power connection. If you do not have a thermal circuit breaker or fuse in your power circuit, you **MUST** fit an in-line breaker or fuse to the positive (red) lead of the power cable.



- **Installation angle**- the display should be mounted at an angle. Mounting it in a flat plane is not recommended due to increased heat absorption.
- **Viewing angle** - this LCD has been chosen to give the very best performance, including viewing angle. However, the contrast and colors seen on all LCD displays vary slightly with viewing angle.
- **Environment** - to prevent overheating, do not restrict airflow at the rear of the display unit; If the space behind the display is air conditioned or cooled by a fan, it will help in keeping the unit's temperature down when mounted in direct sunlight.
FAILURE TO ADEQUATELY VENTILATE THE UNIT COULD INVALIDATE YOUR WARRANTY.
The display should be protected from physical damage and excessive vibration. Although the display unit is waterproof from the front when installed correctly, it is good practice to mount it in a protected area away from prolonged and direct exposure to rain and salt spray. DO NOT place the display near to a heat source.

Typical Installation Diagram



Remarks: The real installation diagram above is only for reference and will differ for different kind of customer's applications

4.0 OSD OPERATIONS

Button Control

Clockwise Rotation: Move selection up or increase value.

Counter-clockwise Rotation: Move selection down or decrease value.

Button Press: Press and hold for 3 seconds: Power off.

Double-click: Open OSD MENU.

Single press: Confirm.

OSD MENU

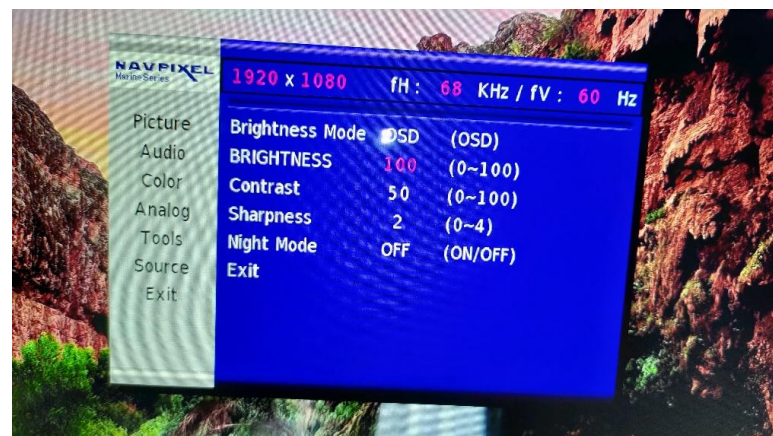
The leftmost column is the Main Menu:

Picture



Brightness Mode: Select backlight mode via OSD. Light Sensor and VR functions must be enabled separately.

Brightness: Adjust brightness. Range: 0-100.



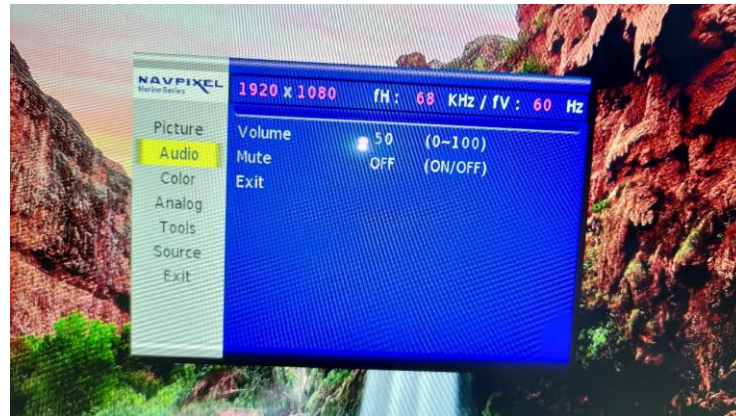
Contrast: Adjust contrast. Range: 0-100.

Sharpness: Adjust sharpness. Range: 0-4.

Night Mode: Lowers brightness to prevent excessive glare. Adjusting the brightness manually will deactivate Night Mode.

Exit: Return to the Main Menu.

Audio



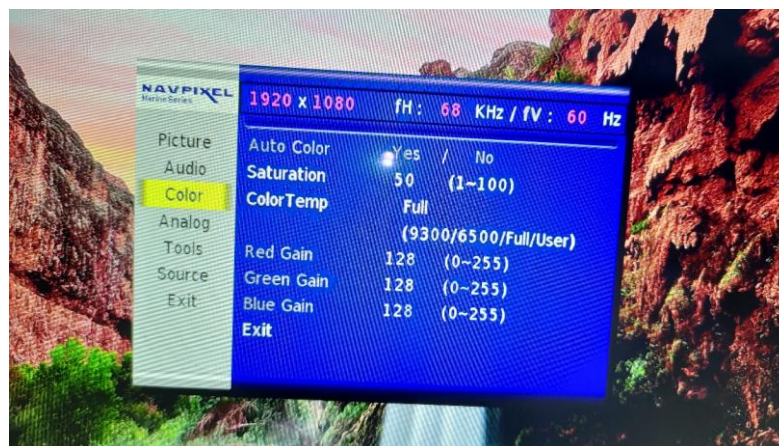
Volume: Adjust volume. Range: 0-100.

Mute: Turn mute On/Off.

Exit: Return to the Main Menu.

Contrast: Adjust contrast. Range: 0-100.

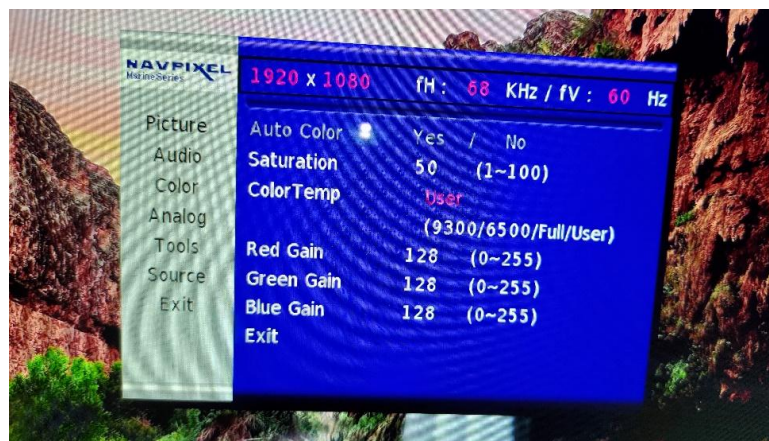
Color



Auto Color: Automatically calibrate color (for VGA input only).

Saturation: Adjust color saturation. Range: 0-100.

Color Temp: Select color temperature. Options: 9300 / 6500 / Full / User.



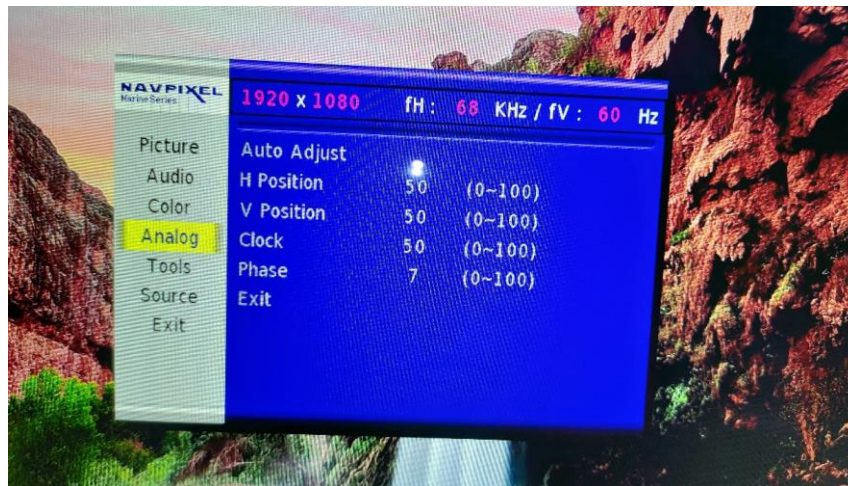
Red Gain: Adjust red gain when Color Temp is set to User. Range: 0-255.

Green Gain: Adjust green gain when Color Temp is set to User. Range: 0-255.

Blue Gain: Adjust blue gain when Color Temp is set to User. Range: 0-255.

Exit: Return to the Main Menu.

Analog (For VGA Input)



Auto Adjust: Automatically adjust to full screen.

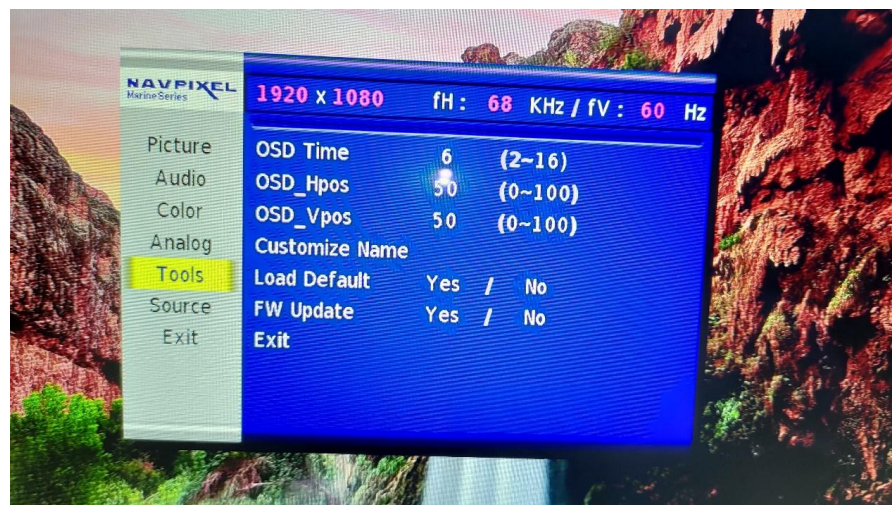
H Position: Horizontal starting position of the image.

V Position: Vertical starting position of the image.

Clock: Adjust image clock/pixel clock.

Phase: Adjust image phase.

Tools

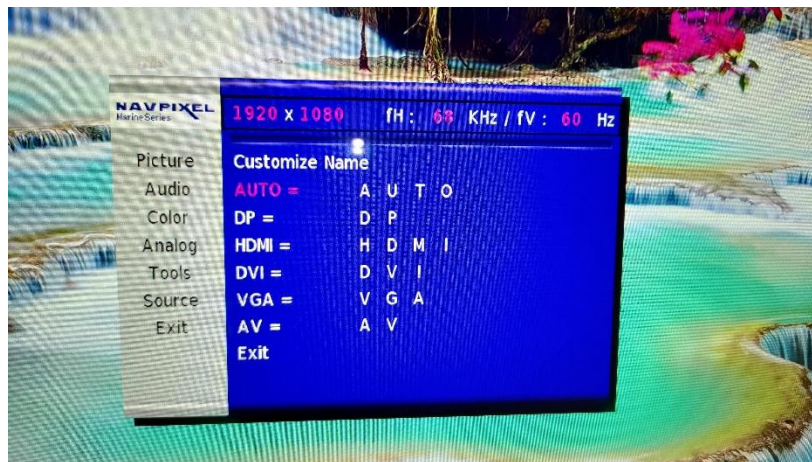


OSD Time: Set how many seconds the OSD stays visible before automatically closing. Range: 2-16 seconds.

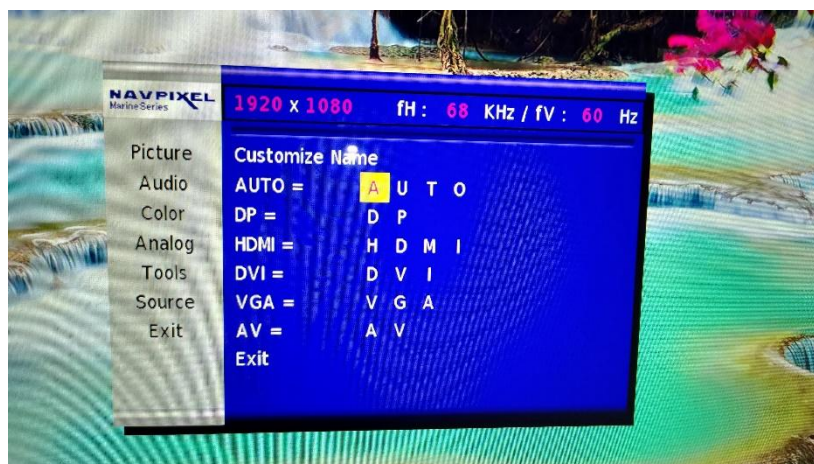
OSD_Hpos: Horizontal position of the OSD. Range: 0-100.

OSD_Vpos: Vertical position of the OSD. Range: 0-100.

Customize Name: Allows users to manually rename input sources.



(Customize Name page)



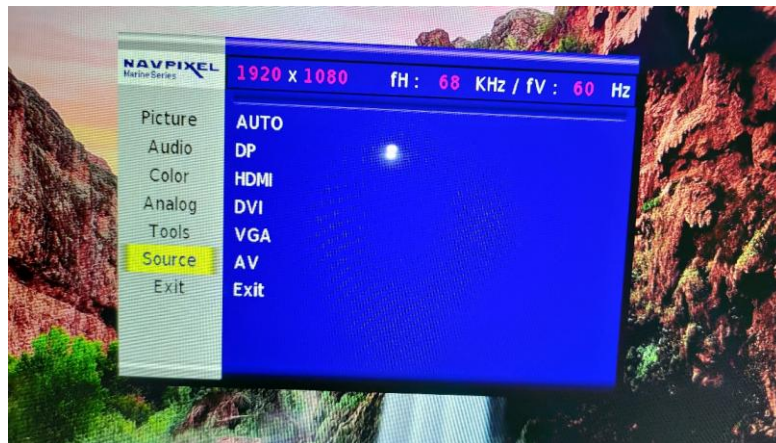
(Customize Name Adjust)

Load Default: Restore factory default settings.

FW Update: Reserved for firmware updates.

Exit: Return to the Main Menu.

Source



AUTO: Automatically search for input signals.

DP: Switch input source to DP.

HDMI: Switch input source to HDMI.

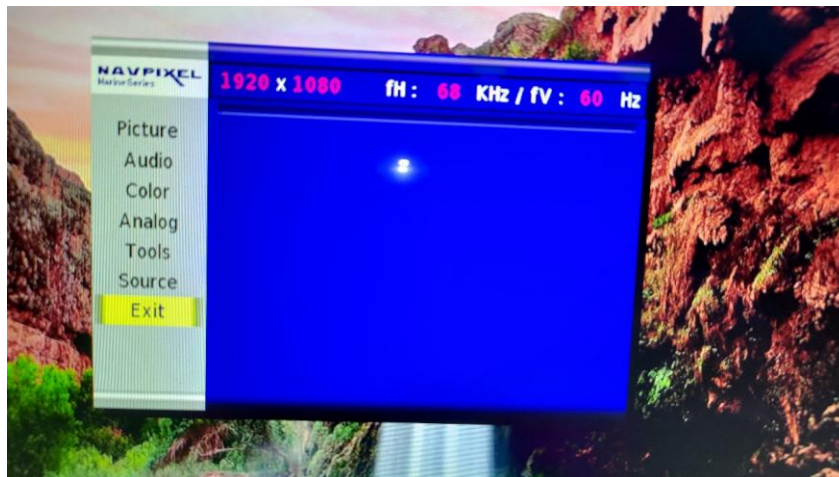
DVI: Switch input source to DVI.

VGA: Switch input source to VGA.

AV: Switch input source to AV.

Exit: Return to the Main Menu.

Exit



Close OSD Menu.

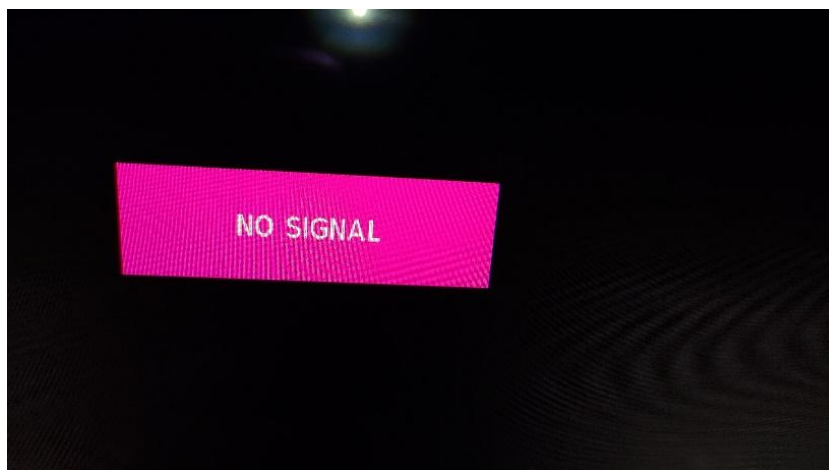
<Others>

The Information screen will be displayed upon powering on or switching input sources.



(Information)

"NO SIGNAL" will be displayed when no input signal is detected.



(No Signal)

5.0 TECHNICAL SPECIFICATION

Specification- NPD1569-ITA-P01

LCD Display

<i>Backlight</i>	15.6" LED Backlight
<i>Active Display Area</i>	344.2x193.6 mm
<i>Brightness</i>	1800 cd/m ²
<i>Resolution</i>	1920x1080
<i>Contrast Ratio</i>	1200:1
<i>Pixel Pitch (mm)</i>	0.17925(H)x0.17925(V)
<i>Viewing Angle</i>	178°(H), 178°(V)
<i>Display Color</i>	16.7M
<i>Response Time</i>	25ms
<i>Inputs</i>	VGAx1, DVI-Dx1, HDMIx1, DPx1, Composite x1, RS232x1, USBx1

Mechanical

<i>IP Rating</i>	Facial waterproof to IP65 standards when console mounted.
<i>Construction</i>	Rugged Aluminum Alloy Chassis
<i>Mounting</i>	Panel (Flush) mount, VESA mount
<i>Dimension</i>	393.9(w)x285(H)x61.2(D)

Power

<i>Voltage</i>	DC Input Voltage: DC 9~36V
<i>Power Consumption</i>	32W

Environmental

<i>Operating Temperature</i>	-30°C~80°C
<i>Non-Operating Temperature</i>	-30°C~85°C

Certification

Designed to meet FCC Class A

* The brightness is measured under the 25°C ambient temperature before touch attached. Due to Panel material's deviation, different panel supplier will set different specific variance range to optical characteristics. The factors of time used, Lamp current, ambient temperature will influence the optical measurements.

Specification- NPD2706-ATA-P01

LCD Display

<i>Backlight</i>	27" LED Backlight
<i>Active Display Area</i>	597.6 x 336.1 mm
<i>Brightness</i>	1200 cd/m ²
<i>Resolution</i>	1920x1080
<i>Contrast Ratio</i>	4100:1
<i>Pixel Pitch (mm)</i>	0.311(H) x 0.311 (V)
<i>Viewing Angle</i>	178°(H), 178°(V)
<i>Display Color</i>	16.7M
<i>Response Time</i>	12ms
<i>Inputs</i>	VGAX1, DVI-Dx1, HDMIx1, DPx1, Composite x1, RS232x1, USBx1

Mechanical

<i>IP Rating</i>	Facial waterproof to IP65 standards when console mounted.
<i>Construction</i>	Rugged Aluminum Alloy Chassis
<i>Mounting</i>	Panel (Flush) mount, VESA mount
<i>Dimension</i>	660(W)x445(H)x67(D)

Power

<i>Voltage</i>	DC Input Voltage: DC 9~36V
<i>Power Consumption</i>	69W

Environmental

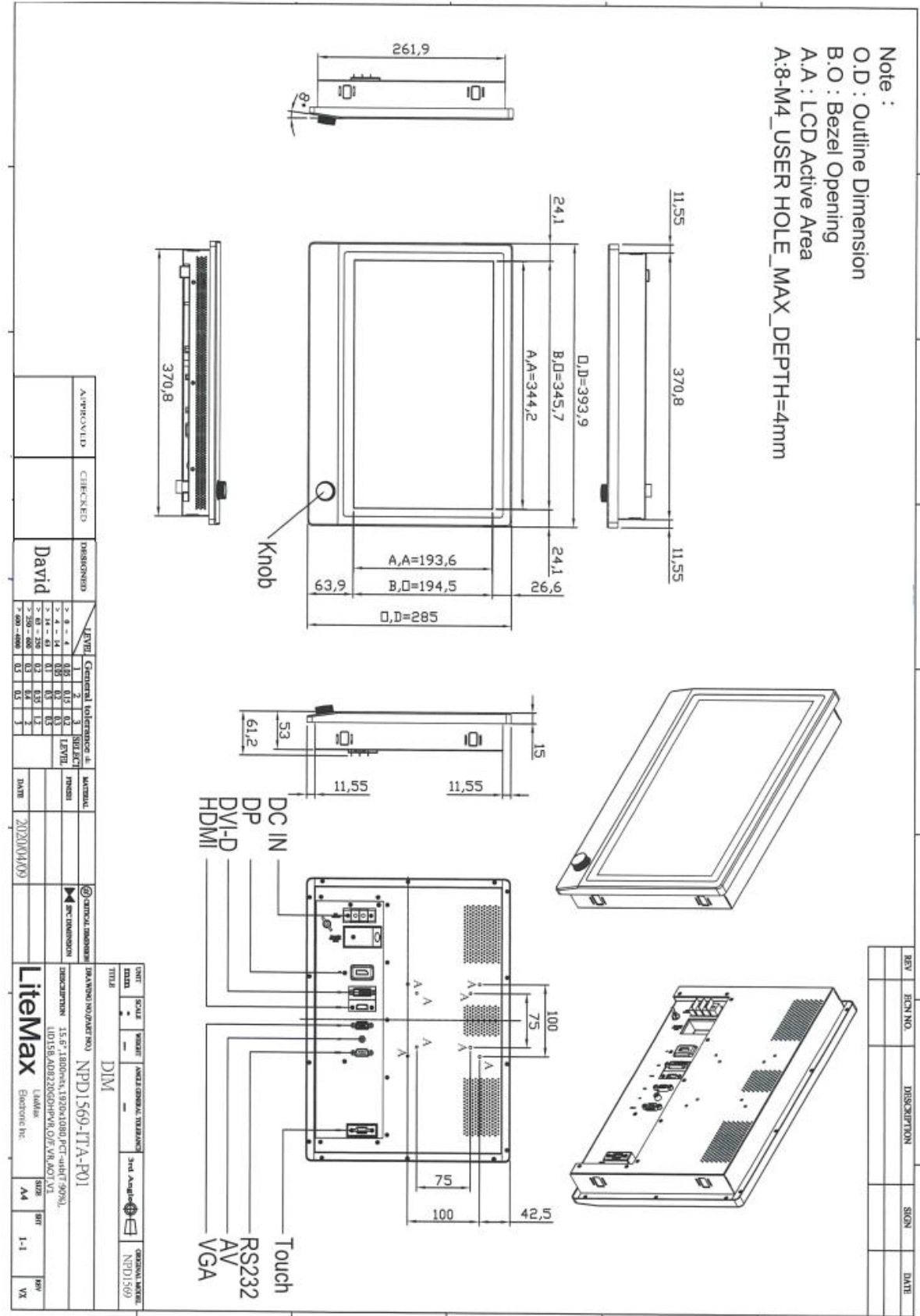
<i>Operating Temperature</i>	-10°C~50°C
<i>Non-Operating Temperature</i>	-20°C~70°C

Certification

Designed to meet FCC Class A

* The brightness is measured under the 25°C ambient temperature before touch attached. Due to Panel material's deviation, different panel supplier will set different specific variance range to optical characteristics. The factors of time used, Lamp current, ambient temperature will influence the optical measurements.

ME Drawing- NPD1569-ITA-P01



[illegible]

6.0 MAINTENANCE AND TROUBLESHOOTING

Precautions

To maximize the life and safe use of your unit, always be sure to follow the warnings, precautions and maintenance recommendations in this user's guide.

In a Watercraft or Vehicle:

- The monitor should be visible to the driver only if it is used for navigation, or system control. Care should be taken to ensure distraction does not occur.
- Review all applicable federal, state and local laws and regulations to make sure the monitor is used properly and safely.
- Avoid using the monitor for extended times while the charging system is not running, or the monitor could drain the watercraft's battery.

Maintenance



High Voltage

The display unit contains high voltages.

01. To reduce the risk of electric shock, do not remove the cover or back.

There are no user-serviceable parts inside.

02. Make sure you turn off and unplug the display before installing devices.

Cleaning the display



Cleaning

DO NOT use acid, ammonia based or abrasive products.

1. Use a soft cloth moistened with mild detergent, isopropyl alcohol, or window cleaners to clean the display housing.
2. Ensure the display is disconnected from the power supply. Wipe the display with a clean, damp cloth.
3. If necessary use iso-propyl alcohol (IPA) or a mild detergent to remove grease marks.
4. Never use abrasive cleaners, waxes or solvents to clean the unit.

Disconnecting the power supply

To disconnect the display from the boat's power supply either;

- Isolate the power cable from the main supply, or,
- Remove the power connector from the rear of the monitor.

The power button on the front of the monitor changes the operating mode; it does not provide complete protection in an emergency

Troubleshooting

All Navpixel products are, prior to packing and shipping, subjected to comprehensive test 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 your local dealer, national distributor or Navpixel Technical Services Department for further advice.

Common problems and their solutions

Problem	Solution
The display is very dim or dark	Adjust the display as described in "Image adjustment on " Section 5 OSD Menu.
The display shows the message 'No Input'	Check that the video source i.e. display, camera, DVD etc. is powered and that the cables are correctly connected.
You have pressed the power button, but the display does not function.	1. Make sure that the power cable is well connected and that all connections are tight and free from corrosion. 2. Check the system fuse.