

*Supra[®]
Vision[™] Control
2026*

Owner's Manual



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This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

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AutoWake™ : U.S. Patent Nos. 8,798,825; 9,499,242; 9,689,395; 9,828,075; 9,873,491; 10,093,398; 10,414,470; 10,640,182; 10,717,502; 10,759,507; 10,858,080; 10,926,848, 10,676,166, 11,130,551, 11,358,680; 11,438,751 and other patents pending.

Flow 3: U.S. Patent Nos. 10,040,522; 10,112,688; 10,202,177; 10,239,591; 10,370,071; 10,479,461.

Amplitude Display: U.S. Patent No. 9,950,771; 10,577,054.

Draft Sensor: U.S. Patent No. 9,873,491; 10,414,470; 10,926,848

Supra Thruster Control Knob: U.S. Patent No. 11,014,638.

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Product Information

The Supra® Vision™ Control 2026 displays are designed for instrumentation and control of electronically controlled engines communicating via SAE J1939 and NMEA 2000.

These displays enable boat operators to view engine, ballast and transmission parameters and service codes, GPS tracking, AutoWake®/Surf controls, Bluetooth media and cruise control functions.

12" HV1210	15" HV1500	5" S50
		

Care and Maintenance

General maintenance is not required; however, a soft cloth can be used for cleaning the units. Window cleaner or alcohol can also be used to clean the glass portion of the display. Do not use harsh or abrasive cleaners on the units.

HV1500 Features

Home Screen



Screen Area	Description
Time	Displays the local time according to the style chosen in Settings (12 or 24 Hr).
Map Selector	Touch this button to enable the map to display on that side of the screen.
Stern Video	Touching this button will display the Stern video feed. Will appear automatically when Drop Step is moving or the boat is in reverse gear.
Gear	Displays F (Forward), R (Reverse) or N (Neutral) according to the gear currently being used.
Engine Fault	If this illuminates, check the engine to ensure it is working properly.
Battery Voltage	Presents the voltage of the battery. If the voltage falls below normal, the battery icon will turn red.
Screen Expander	Touching this area will shift the center dial to the left, giving additional room on the right side of the screen. Touch once more to return.
Compass	Displays the current direction in which the boat is traveling.

Continued

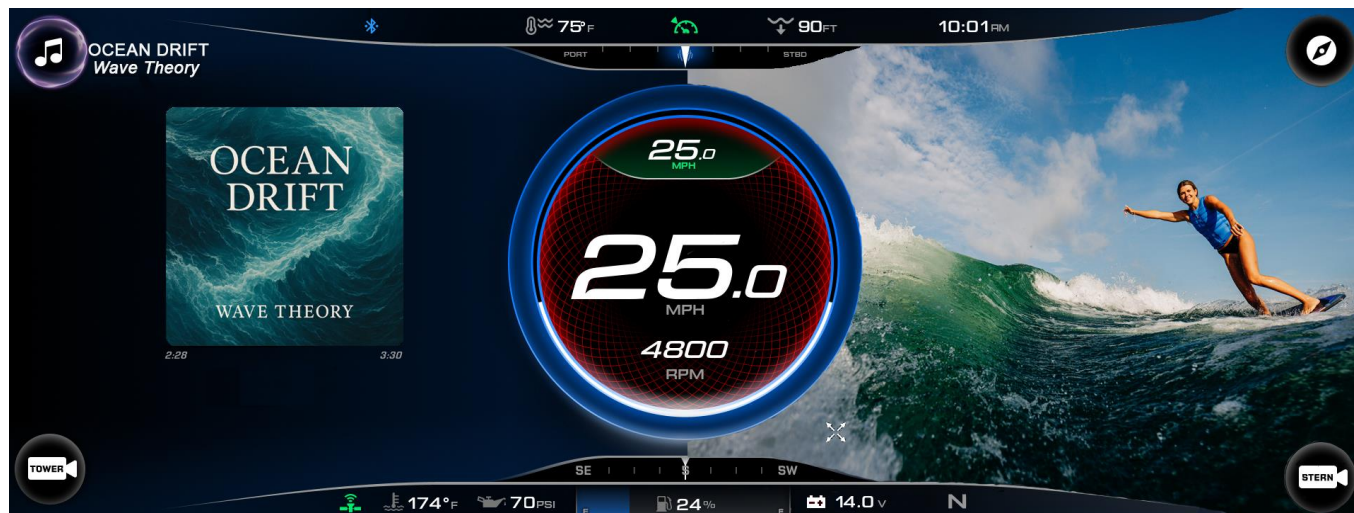
Screen Area	Description
Fuel Level	The amount of fuel in the fuel tank.
Oil Pressure	Displays the oil pressure of the engine in PSI.
Engine Temperature	Displays the temperature of the engine's coolant in degrees Fahrenheit or Celsius depending on the selection chosen in Settings.
GPS Signal	Illuminates green when the GPS signal is good. The lack of a GPS symbol will notify of a low- or non-existent GPS signal.
Tower Video	Touch this button to display the Tower video feed. Will appear automatically when Drop Step is moving or the boat is in reverse gear.
Current Music Selection and Album Art	If connected through Bluetooth, the current music (artist and song) being played and its corresponding album art will be displayed.
Bluetooth Connection	If connected through Bluetooth, this symbol will appear.
Media Notifications	Tap the Bluetooth symbol and the number of missed phone calls and texts for the device currently connected to the display will display.

Continued

Screen Area	Description
Water Temperature	Displays the current temperature of the body of water that the boat is being operated on in Fahrenheit or Celsius depending on the Units selection chosen in Settings.
Steering Position	Will shift to the Port or Starboard side in relation to the electronic steering.
Cruise Control	Indicates whether the Cruise Control is on or off. See ZeroOff GPS Speed Control for additional information.
Current Speed and Cruise Speed	How fast the boat is traveling and the number of Revolutions Per Minute of the engine, along with the currently established Set Speed.
Water Depth	Displays the current detected depth of the water.
Drop Step	The color of this graphic will display the status of the Drop Step. • Green: Drop Step fully retracted • Red: Drop Step fully deployed • Yellow: Drop Step not fully retracted or deployed • Orange: Drop Step moving but not fully retracted or deployed Note: If the Drop Step becomes incapacitated and is unable to fully retract or deploy, it may need to be recalibrated. Consult your local boat dealer to remedy this situation.

Media

Media devices may be connected to the system and their content will be displayed. The media device must be connected to the system via the side screen (HV1210). Please see the section within HV1210 titled [Bluetooth](#) for instructions on connecting these devices to a Bluetooth source. When media devices are connected the album art/media content displays on the center screen (HV1500).



Maps

Similar to Media, Maps will be displayed on the center screen (HV1500), with the Maps controls residing on the side screen (HV1210). Please see the section titled [Navigation](#) for instructions on using this utility.

The one Maps control that resides on the center screen (HV1500) is the expandable display. To expand the map touch the 'expander/arrows out' button:





To bring the screen back to what is shown in the top picture, touch the 'expander/arrows in' symbol in the upper right hand corner.

Video

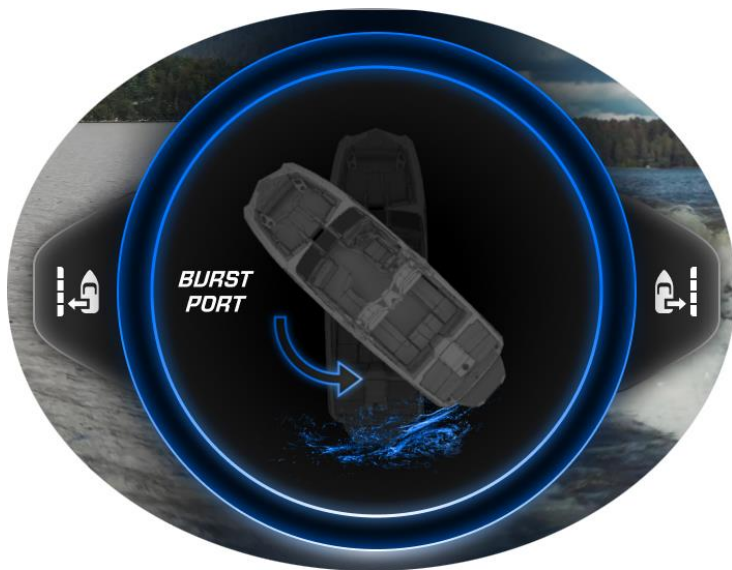
The video controls that reside on the center screen (HV1500) allow you to choose between a view from the Tower and/or the Stern.



Both the Tower and Stern camera video feeds will be displayed automatically when the shifter is moved to Reverse and remain on for 10 seconds when the shifter is returned to the Neutral or Forward positions. The Tower and Stern video feeds will also appear when the Drop Step is moving. The Video feed can be displayed on both sides of the screen to enable viewing of both the Tower and Stern video feeds at the same time.

Thrusters (if equipped)

Within the established conditions (engine on, voltage >10V, speed <5mph), if equipped and enabled the center screen (HV1500) will appear with a Thruster graphic as shown below. Refer to the Supra manufacturer's manual for the proper Thruster procedures.



There are five states to the system:
Off, Dock Hold Port, Dock Hold Starboard,
Port Burst and Starboard Burst. Port and Starboard
Burst are triggered by a knob on the boat's throttle
and will always be high intensity.

Low, Medium and High refer to the Dock Hold
intensity. The arrows indicate the direction the boat
will be moving.

Side Screen (HV1210) Features



While center screen (HV1500) is the Vision Control's flash, the side screen (HV1210) is the function.

Always at your fingertips, the top of the display provides Bluetooth access, previous/next song and volume controls.

The bottom of the display has 5 tabs. Each tab contains access to the settings to enhance your boating experience.

The following sections describe each of the tabs and the controls found in each page.

Supra Swell™ Surf System



The Supra Swell™ Surf System is a standout example of how precision engineering meets customizable performance on the water. It's designed to give riders of all skill levels the ability to shape and control their surf wave with remarkable ease.

The first page of the Surf System puts wave customization right at your fingertips.

At the top, you'll find Bluetooth and Audio controls—tap into your playlist and connectivity settings with ease. See [Media Controls](#) for more information.

AutoWake™

AutoWake™ offers intelligent wake adjustment to fine-tune your ride. AutoWake™ is a patented wake-optimizing system that automatically adjusts ballast to achieve ideal pitch, roll, and wave amplitude for surfing and wakeboarding. Using an inclinometer, it continuously fine-tunes the boat's balance for optimal riding conditions.

System States Explained:



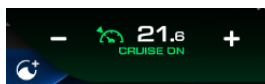
1. **Inactive:** AutoWake is off, speed is outside limits (below 7mph or above 26mph), or actual speed is below 3mph. No automatic ballast adjustment occurs in this state.
2. **Countdown:** When all required conditions are met (correct speeds and activation), a 10-second countdown begins before becoming active. Any change in condition resets the countdown.



3. **Active:** AutoWake dynamically adjusts ballast (filling before draining) to reach set pitch and roll. If physical limits are reached, it may prompt the user to manually shift onboard weight.
4. **Achieved:** The boat holds desired pitch and roll within 0.25° . Display turns green to confirm. If it drifts beyond 0.75° , it reverts to Active mode to readjust.
5. **Static Active:** Engaged under 3mph, AutoWake works in static mode to hit setpoints. Pop-ups inform the driver if any targets can't be reached.
6. **Static Achieved:** At low speeds, when all static goals (pitch, roll, amplitude) are met, AutoWake locks into this achieved state.

Zero Off® GPS Speed Control

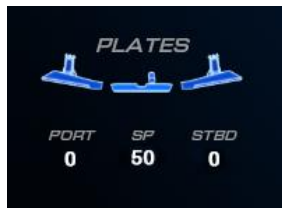
Zero Off unlocks a consistent experience for wake sport athletes and enthusiasts alike.



Pressing the Cruise Off button engages Zero Off, enables speed adjustment interface elements, and also serves to deactivate the system when toggled again.

Adjust the Cruise Speed via the – and + buttons.

Smart Plates



The **Supra Smart Plate** is a key component of Supra Boats' advanced wake-shaping technology, designed to give riders total control over their wave and wake experience.

The Smart Plate itself adjusts the running attitude of the boat, essentially fine-tuning how the hull sits in the water. This lets you shape the wake's size, steepness and length to match your riding style, whether you're wakeboarding, wake surfing, or skiing.

Here's how it works in action:

- **Lowering the Smart Plate** helps flatten the boat's attitude, which can smooth out rough water or create a longer, mellower wave.
- **Raising the plate** allows the stern to sit deeper, generating a steeper, more aggressive wake—perfect for big airs or deep carves.

It's all about customization and performance, and when paired with AutoWake's real-time ballast adjustments and the Swell Surf System's surf-side switching, you get a seriously dialed-in ride every time.



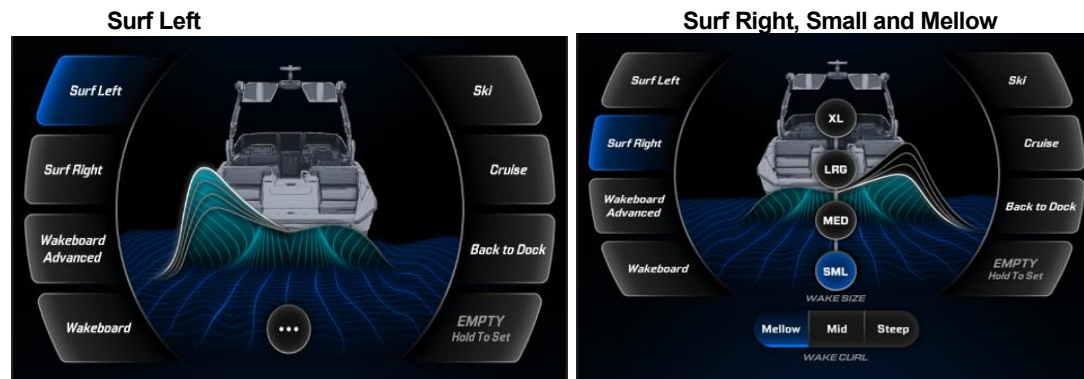
Switch the surf wave from one side to the other without moving ballast or passengers — a huge convenience for multi-rider sessions.

Basic Wave Creation and Profiles

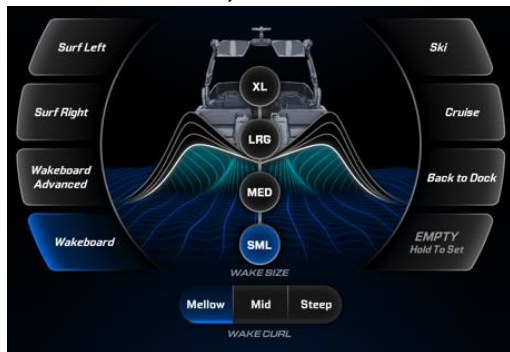
Get dialed in fast with our PreSet Rider Profiles—designed to launch you straight into action. Whether you're carving up the wake or slicing through slalom, choose from Surf Left, Surf Right, Wakeboard, Wakeboard Advanced, or Ski to match your style.

Each selection automatically loads optimized settings to shape your ideal wave, and the on-screen graphic updates instantly so you can see exactly what kind of ride you're in for. Want to fine-tune even more? Tap the ellipsis for advanced controls and take full command of your wave.

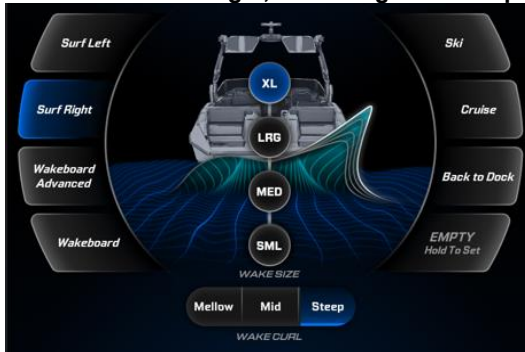
Check out these screen samples to see how each profile sets the stage for performance.



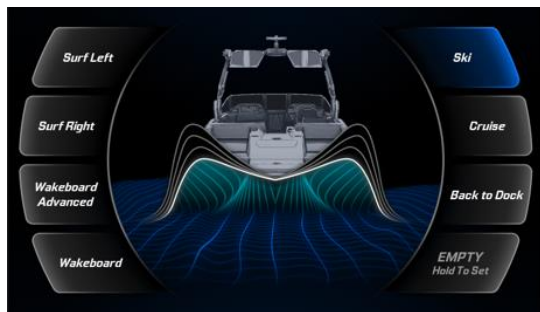
Wakeboard, Small and Mellow



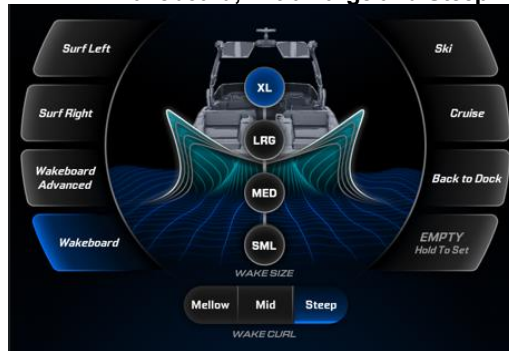
Surf Right, Extra Large and Steep



Ski

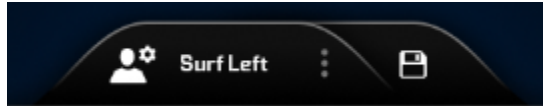


Wakeboard, Extra Large and Steep

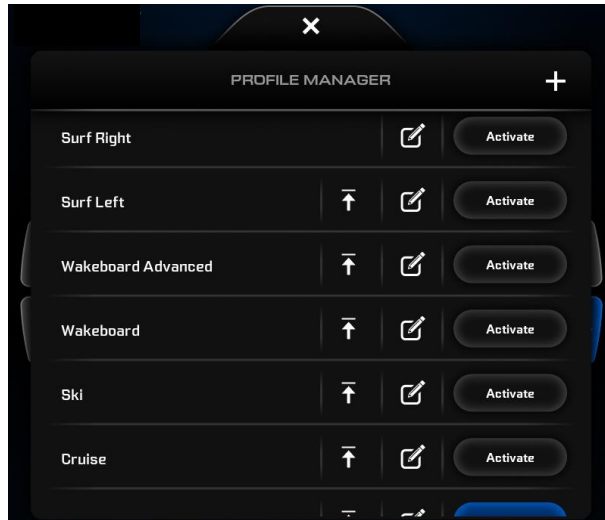


At the bottom of the screen, the selected profile name will appear:

Touch the Save Icon to save any new settings to the chosen profile.



Touch the three dots  and the Profile Manager screen will appear:



Existing profiles are displayed here.

To rearrange the order of the profiles, touch  beside the profile to be moved until the profile is in the desired location.

To edit a particular profile, touch .

To make a profile active, touch .

To shut off an active profile, touch .

Add a new profile by touching .

Touch the  to close this screen.

Advanced AutoWake and Ballast Settings

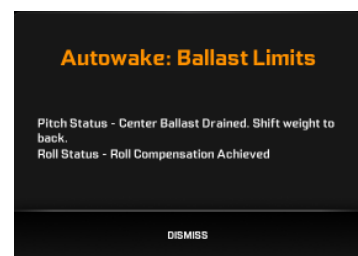
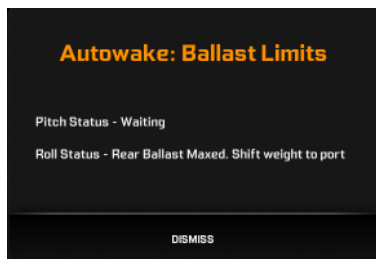


The second page of the Supra Swell Surf System is accessed by touching this tab at the top of the screen:
The following page will appear when AutoWake is active:



This page allows manual adjustment of the Pitch, Roll and Wake Amplitude settings. Adjust via the + and – buttons and watch as the interactive boat model and Wake Number adjust along with the new settings.

If at some point the weight either by ballast or Pitch and/or Roll status has reached a maximum point, an error may appear. Adjust weight accordingly:



When AutoWake is off, this page presents the Ballast settings and the ability to adjust them.



To adjust ballast levels:

- Use the **+** and **–** buttons to fill or drain each ballast individually.
- Press **Stop** when the desired level appears on the numeric or graphic display for that ballast.
- To fill or drain all ballasts simultaneously, tap **Fill All** or **Drain All**.
- Select **Stop All** to halt all ballasts at once.
- Ballast settings can be saved to individual profiles by selecting a specific profile at the bottom of the page and touching the Save icon .

Media Controls



Media files can be sourced through the following choices:

- AM Radio
- FM Radio
- Weather Band
- Bluetooth



From the lower left hand corner touch the SRC button to choose the desired media source.

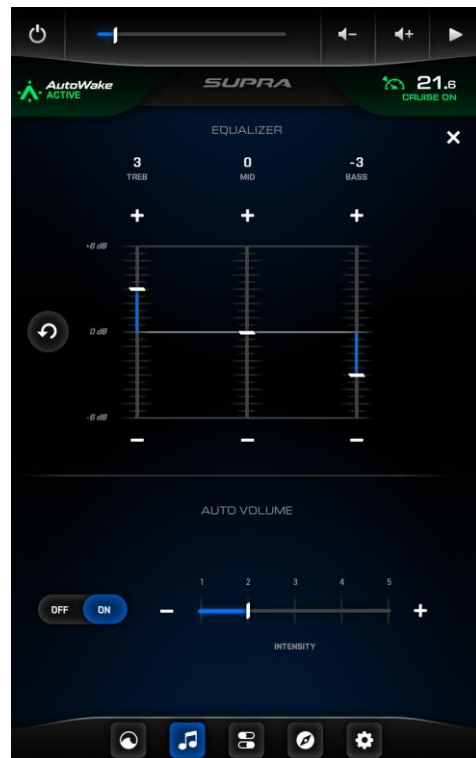
Now playing: AM or FM Radio



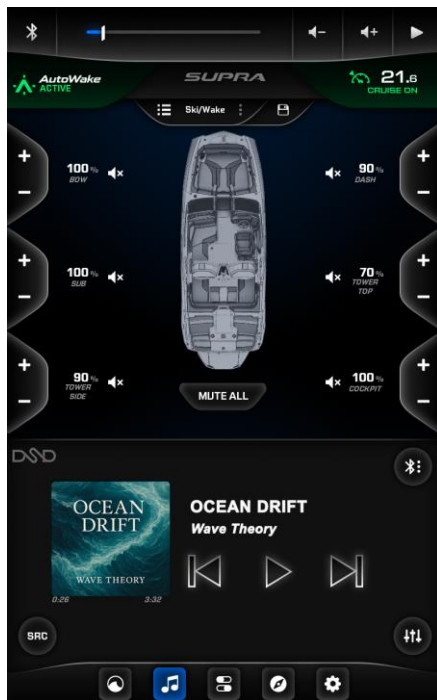
Touch the arrow buttons to navigate to or fine-tune a desired station. Save your 14 favorite stations (7 each for AM and FM) by holding an empty station button for approximately 3 seconds.

Touch  to display the Audio Settings page, shown on the right. Adjust the Equalizer settings by touching the + and – buttons.

For Auto Volume, touch to turn it On and increase or decrease the volume level that will automatically overcome wind and engine noise.



Audio Zones



Displayed here are the various Audio Zones on the boat.

Adjust the master volume with the slider bar or the – and + buttons. Adjust the volume in each of the zones shown by touching the – or + buttons.

Mute a zone by touching  beside the zone name. Touch Mute All for no sound from any zone.

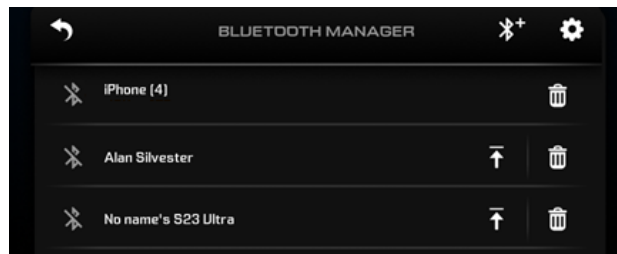
Zone settings can be saved to a chosen profile by selecting the profile name and touching the Save button.



Now playing: Bluetooth

To connect a Bluetooth device, follow these steps:

1. Touch the SRC button and select Bluetooth. The Bluetooth Manager screen will appear, illustrating the devices that have previously been connected to the display.
2. Select a device from the list or touch the  button to add a new device.
3. Ensure your device has Bluetooth turned on and is discoverable.
4. Once the display finds your device, select the device's name from the list (example above) that appears and the pairing process will begin. A pairing message will appear on both the display and device. Follow the prompts on both.
5. If successful, the word "Connected" will be next to the device name on the display. On the personal device, navigate to the music source of choice and the device's music content will begin to play on the screen.



To delete a device, touch . To move a device up in the list, touch .

Now playing: NOAA Weather

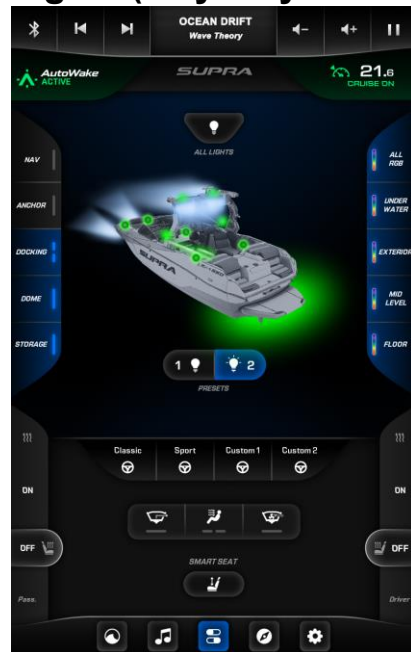
There are seven pre-programmed NOAA (National Oceanic and Atmospheric Administration) weather channels available on the HV1210.

To review current weather conditions, review channels 1 through 7 for various weather reports.



Comfort Settings

Lights (may vary according to boat model)



To control individual lighting zones, press the corresponding light button to toggle its state (on/off). To simultaneously activate or deactivate all onboard lighting, select the **All Lights** function for unified control.

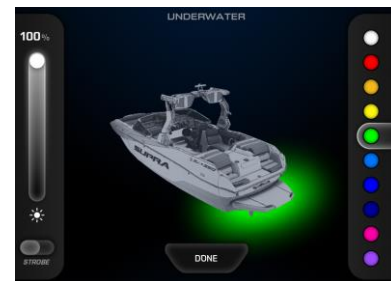
Press the Docking light once for low, twice for high: 

There are two preset configurations of lights. Try each one!



Tapping the All RGB button will turn on all the lights designated as RGB with the color previously assigned. Pressing and holding the All RGB button will bring up the Edit screen to select one color for all of the RGB lights.

For the individual Underwater, Exterior, Mid Level or Floor lights, touch that light and choose your Brightness, Strobe effect (on/off) and desired color then touch Done to save the changes.



Switches (may vary according to boat model)

Seat heaters (and coolers, if equipped) for the passenger and driver are on each side of the display (Off/Low/High).

First Row: Two custom (Custom1 and Custom2) and two preset (Classic and Sport) steering profiles have been designed for different preferences regarding return to center and amount of resistance.

Second Row Switches if equipped (L to R): Bilge pump, Wash Down, Heater, Blower

Third Row: Drop Step, Smart Seat (adjusts the driver's seat according to the Pitch and Roll values) and Bimini.

Notes: The Bimini is disabled above speeds of 15mph. To retract the Drop Step, reduce speed to below 5 mph.



Autoleveling

Autoleveling is a system that utilizes an inclinometer sensor to calculate the roll of a boat and correct the roll to be as level as possible while staying within the set parameters.

For Autoleveling to occur, ALL the following conditions must be met:

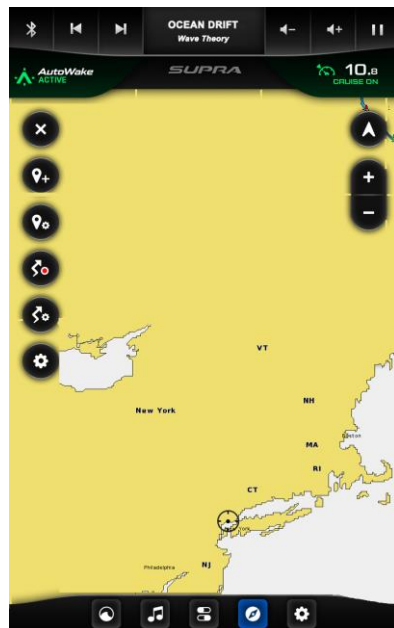
- The active profile must be Cruise or Back to Dock.
- AutoWake must be On.
- Speed must be greater than 85% of the Set Speed.
- Set Speed must be greater than 7 mph and less than 30 mph.
- The Inclinometer must be Active.
- Roll is either above 1.5° or below -1.5°

Once the above parameters have been met, Autoleveling will retract the plate on the side of the roll fully to 0% and launch the plate opposite of the roll immediately to 40% and begin incrementing in steps of 5% until either the roll has been leveled, or the plate has extended to the maximum setpoint of 65%.

Example: If the boat is leaning to the port side the port plate will retract to 0% and the starboard plate will extend to 40%. If the boat is still not level after the initial extension the boat will then increase by 5% until roll has reached level or 65%, whichever comes first. If the boat overcorrects the roll, the plate that extended will begin to retract in 5% increments until roll is corrected or until the plate is back at 0%. If the plate retracts back to 0%, the plate opposite to the one previously retracted will then begin to extend like it would in normal operating conditions.

NOTE: Autoleveling is disabled when turning.

Navigation



The Maps utility can be accessed by touching the Maps icon at the bottom of the screen.

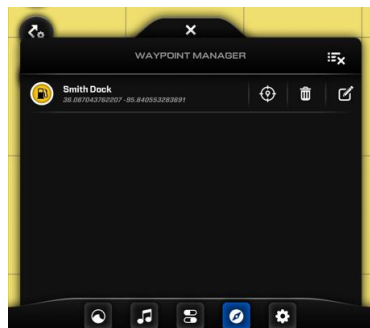


This displays the keyboard to name a new waypoint location on the map.

When saved, the Waypoint Manager



screen will display:



Saved Waypoints will be listed here.



will display the Waypoint on the map.



will delete the Waypoint.



will display the keyboard to rename the Waypoint.



This records the boats movements. When done, touch REC again and the keyboard displays to name the

track. When saved, the Track Manager



screen will display. Like the Waypoint Manager, Tracks can be displayed on the map, Deleted and Edited.



Touching these buttons alternates between North Up and Course Up and will orient the map accordingly.

Touch a part of the screen and drag it to pan to a different part of the map.

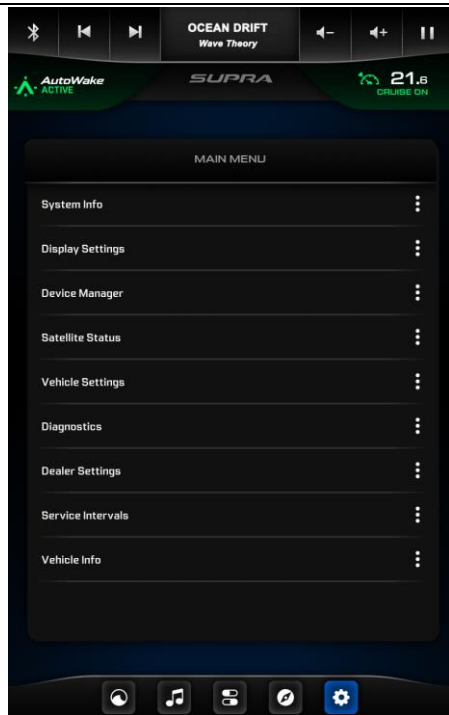
Pinch the screen between two fingers to zoom out or place two fingers together on the screen and spread them apart to zoom in.

See Display Settings in the Main System Settings section for additional map functionality.



Touch and the Maps Settings page will be displayed. This list has on/off switches for showing grids, text, waypoints, tracks, navigation aids, waypoint names, position format selection, depth contour (choose between Off, 6ft, 16ft, 33ft, 66ft or All), and safety contour (choose between Off, 6ft, 16ft, 33ft, 66ft or All).

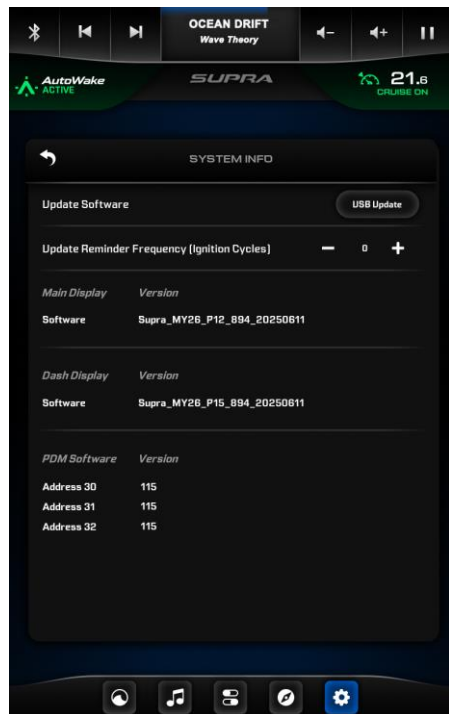
Main Menu



Touch the Settings button  to review the following utilities:

- [System Info](#)
- [Display Settings](#)
- [Device Manager \(Bluetooth, Glove Box Lockout\)](#)
- [Satellite Status](#)
- [Vehicle Settings](#)
- [Diagnostics](#)
- Dealer (Restricted to Dealer access only)
- [Service Intervals](#)
- [Vehicle Info](#)

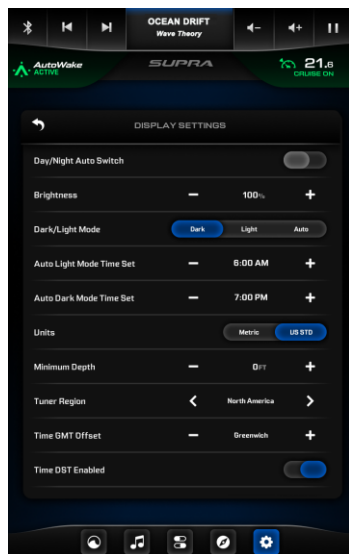
System Info



This screen displays the current version and part numbers for the Main Display, Dash Display and PDM Software.

To update the software via a physical USB flash drive, remove the maps card from the USB drive in the shifter panel storage area. Place the USB flash drive with the new software file into the USB drive and then touch **USB UPDATE**, then follow the instructions that appear on the screen for loading the new software.

Display Settings



Day/Night Auto Switch: turn on to make the day and night settings automatically change.

Brightness: use the – or + buttons to adjust (0-100%).

Dark/Light Mode: choose between Dark, Light or Auto to change the color presentation of the screen.

Auto Light Mode Time Set: Select the time that the Light Mode will take over.

Auto Dark Mode Time Set: Select the time that the Dark Mode will take over.

Units: choose US Standard or Metric.

Minimum Depth: Select the minimum possible depth for the boat.

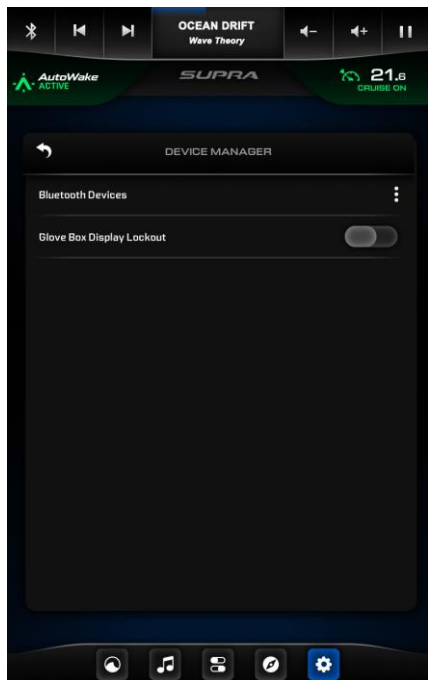
Tuner Region: Select the appropriate region in the world for the specific tuner needed for the display.

Time GMT Offset: use the + or – buttons to cycle through the choices until the appropriate GMT Offset time appears.

Time DST Enabled: select (blue) if Daylight Saving Time is enabled, deselect (gray) if it is not enabled.

Time Display Format: select 12 Hr (i.e., 1:00pm) or 24 Hr (i.e., 13:00).



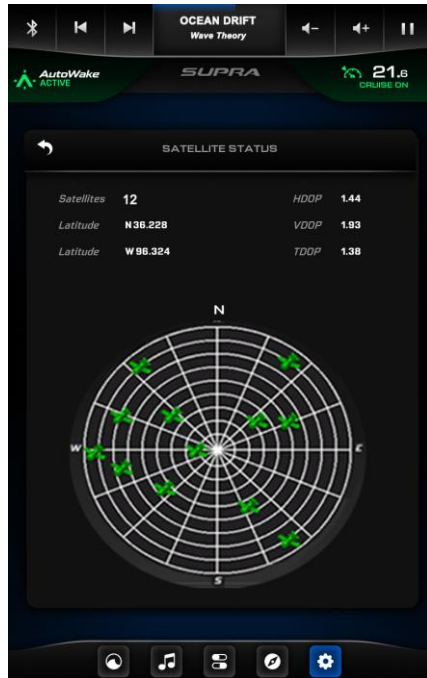


Device Manager

Bluetooth Devices will display the Bluetooth Manager screen shown [here](#) that presents the devices currently and previously connected to the display.

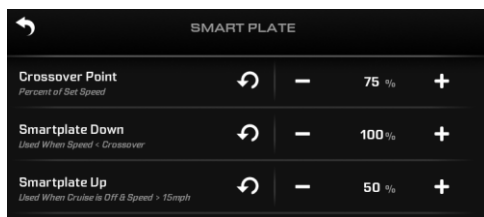
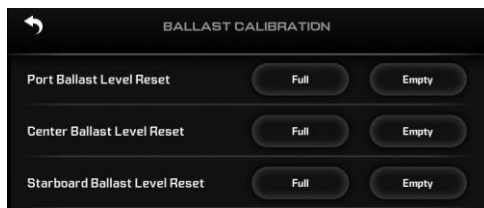
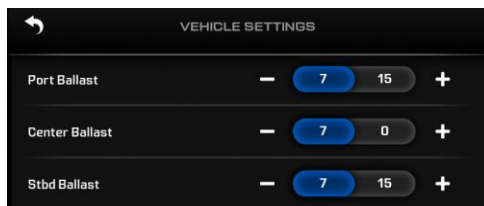
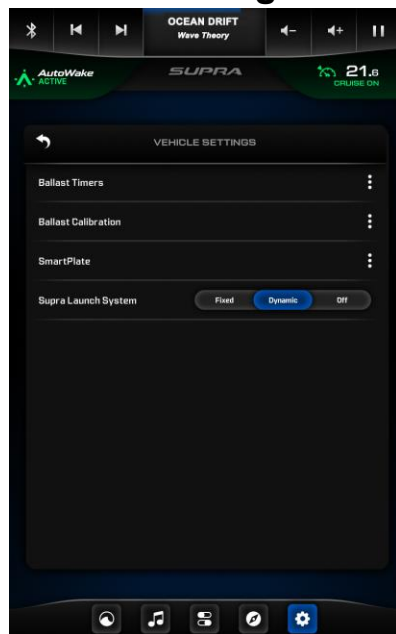
Glove Box Display Lockout When disabled, limited settings may be changed from the S50 unit. When enabled, the S50 unit will not allow changes to be made

Satellite Status



This screen shows all the detectable satellites transmitting signals in the boat's area. This will assist in troubleshooting GPS signals.

Vehicle Settings



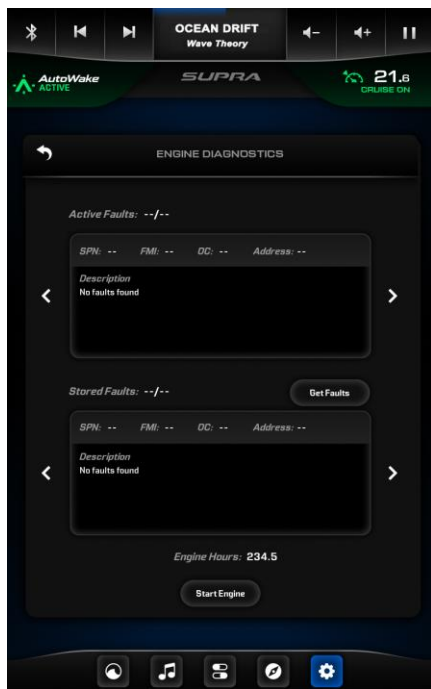
Ballast Timers allow the setting of the time it takes to fill or drain each ballast.

Ballast Calibration allows each ballast (Port, Center and Starboard) to reset both the full and empty levels and be calibrated to those levels.

Smart Plate allows the setting of the Crossover Point (% of Set Speed), the Smart Plate Down percentage (Used when Speed < Crossover) and Smart Plate Up percentage (Used when Cruise is Off and Speed > 15mph).

Supra Launch System allows the selection of Fixed (locked at a preset angle during takeoff), Dynamic (based on speed, ballast load and hull attitude) or Off.

Diagnostics

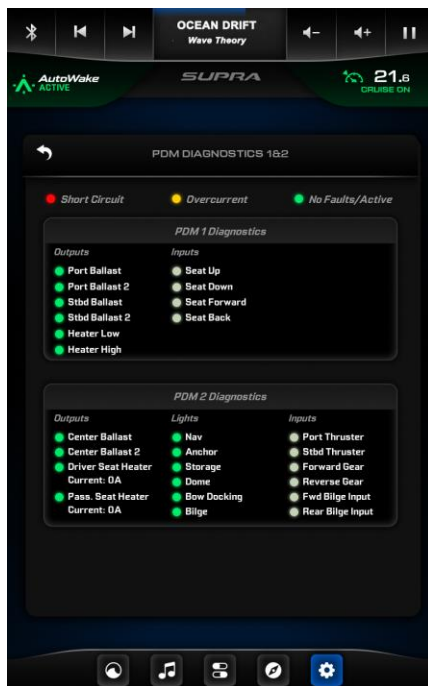


Engine Diagnostics

This screen will display the active and stored faults for the engine. Touch Get Faults to retrieve any stored faults.

This screen also displays the accumulated Engine Hours.

The Start Engine button will start the engine when it is touched. The button will be dimmed when the engine is running and will not shut the engine off if pressed.



PDM 1 & 2 Diagnostics

This screen provides diagnostics for the Power Distribution Module.



A red light means a short circuit is present.



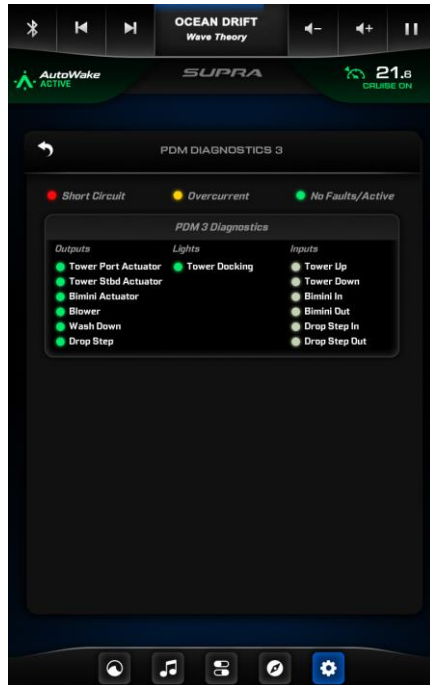
A yellow light means there is an overcurrent.



A green light means there are no faults and the circuits are active.

This screen represents the electrical input and output control of the following components:

Port Ballast/Port Ballast 2
 Starboard Ballast/Starboard Ballast 2
 Heater Low/High
 Seat Up/Down/Forward/Back
 Center Ballast/Center Ballast 2
 Driver and Passenger Seat Heater
 Lights (Nav, Anchor, Storage, Dome, Bow Docking and Bilge)
 Port and Starboard Thruster
 Forward and Reverse Gears
 Forward and Rear Bilge Inputs



PDM 3 Diagnostics

This screen provides additional diagnostics for the Power Display Module.



A red light means a short circuit is present.



A yellow light means there is an overcurrent.

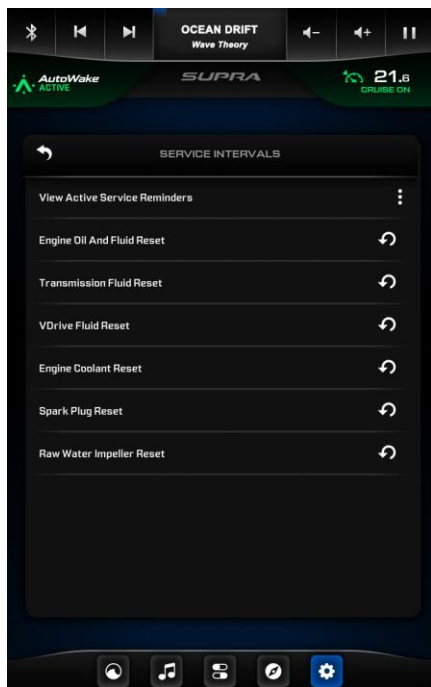


A green light means there are no faults and the circuits are active.

This screen represents the following components:

Tower Port Actuator
 Tower Starboard Actuator
 Bimini Actuator
 Blower
 Wash Down
 Drop Step
 Tower Docking
 Tower Up/Down
 Bimini In/Out
 Drop Step In/Out

Service Intervals



This screen allows the resetting of the service intervals. The ability to utilize the Engine Hours function is required to reset the service intervals.

View Active Service Reminders will show upcoming or overdue service items like oil changes, impeller replacements or ballast system checks and provides active alerts from onboard sensors such as low battery voltage, engine temperature anomalies or ballast pump faults.

When the service has been performed (i.e., engine oil and filter change), touch that selection and answer Yes to “Reset this interval?”

Intervals being tracked:

- Engine Oil and Fluid Reset
- Transmission Fluid Reset
- VDrive Fluid Reset
- Engine Coolant Reset
- Spark Plug Reset
- Raw Water Impeller Reset

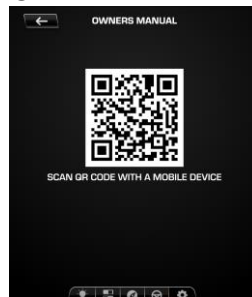
Vehicle Information

Scan these QR codes with your mobile phone for additional information:

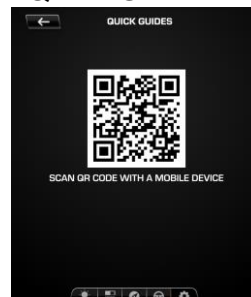
Demo Video



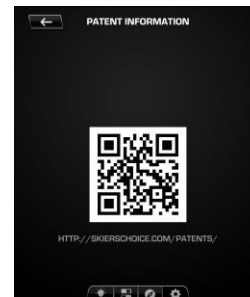
Owner's Manuals

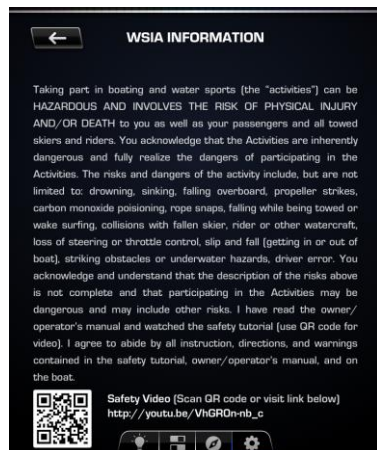


Quick Guides



Patent Information





WSIA Information

View safety information for boating activities here.

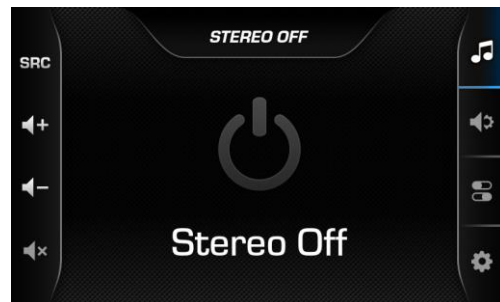
Glove Box Screen (S50) Features

The Glove Box Screen (S50) gives the boat's passengers the ability to control some audio functions and certain features from the port side of the boat.

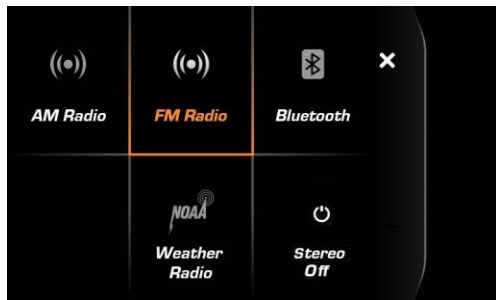
Media Controls

The S50 serves as an additional display/controller for the Audio, Lights and Switches and System Info utilities.

Like the Audio function within the HV1210, the S50 allows the various sources to appear. Touch the SRC button to begin.



SRC (Source)



Touch this button to choose the source (AM, FM, Bluetooth or Weather) from which the music and weather sounds originate.

Touch the X to close this screen.

AM/FM Radio



AM and FM perform similar functions and will tune into radio stations.

 and  will reverse or advance to the next station.

 and  will fine-tune the radio signal.

Bluetooth

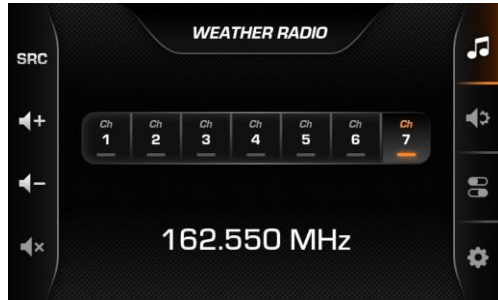


The Bluetooth screen will display the currently playing music source from the device that is connected to the HV1210.

 and  will reverse to the previous song or advance to the next song.

 /  will play or pause the current song.

Weather Radio



Seven pre-saved Weather channels are available to retrieve local weather conditions.

Touch a different channel to listen to varying reports.

Touch  to Mute, then touch  to unMute.

Volume

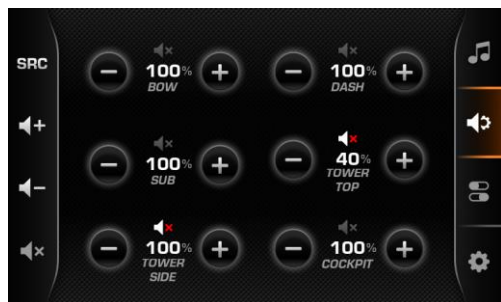


Touch  to increase the Master volume to your desired level.

Touch  to decrease the Master volume to your desired level.

Touch  and  to Mute/Unmute the Master Volume.

Zone Volume



To control the volume within individual zones, adjust by touching the – and + buttons for that zone. To Mute that zone, touch  and  to unMute.

Lights and Switches



Touch a light or switch to turn it (or All) on or off.

The Passenger seat has heating and cooling abilities and each with Off/Low/High settings. Touch repeatedly to adjust.

The Heater has Off/Low/High settings. Touch repeatedly to adjust.

There are 9 lights on the boat, of which 4 can be multi-color. To make each of the 4 have a different color, touch the specific light and select a color.

To turn on all the RGB lights at once with the color previously individually assigned, touch All RGB. To make all lights the same color, touch the color wheel beside All RGB. The following screen will appear:

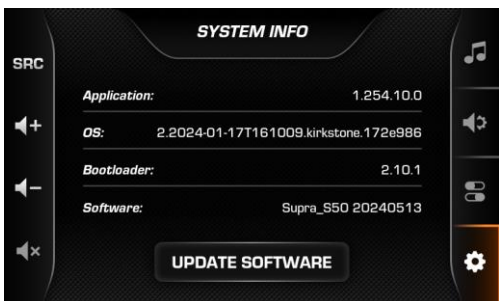


The All RGB button is already chosen. Choose a color and adjust the brightness by sliding the Brightness bar.

For a Strobe light effect, slide the switch on to the right, or left to turn off.

Touch Done when complete.

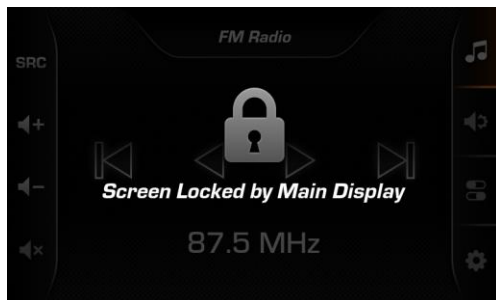
System Info



This screen will display the Application, OS, Bootloader and Software information for the display.

Touch the Update Software button to periodically check for newer software versions. The system compares the current firmware version of the S50 unit with the latest available. Newer versions will be downloaded directly to the S50 unit. Users can choose to install immediately or schedule it for later.

Glove Box Lockout of S50



When Glove Box Lockout is enabled on the HV1210, this screen will appear on the S50.

When the Glove Box Lockout is disabled, this screen will disappear and the normal functions will be available again.

General Troubleshooting Guide

Display appears not to work or doesn't come ON.

1. Display could be in *sleep* mode. Touch a key on the keypad or touch the screen to activate the display.
2. Check for loose connections at battery and display unit.
3. Check for reversed polarity on the power connections.
4. Verify battery has a minimum voltage of 12 Volts.
5. If a message appears on the 12-inch display of "Ignition is Off", turn off the battery switch on the tower to shut down the system and begin the rebooting process.

Display resets or turns OFF when starting engine.

1. Check that the display wires are connected properly.
2. Verify battery is charged properly (fully charged is 12.6 to 12.8 volts with the engine off, charging is 13.7 to 14.7 volts while the engine is running).
3. Check battery for efficient starter current by using either an inductive amp clamp, a multimeter with high current capability or a starter current draw test kit. Typical current drawn for a starter is 50-150 amps during cranking for small marine engines, and up to 200 to 300+ amps especially in cold conditions or under load for larger diesel engines. The Inrush current may briefly exceed 1000 amps, though this lasts only milliseconds.

Display has no backlight.

Contact your Supra service center.

- NOTES -

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