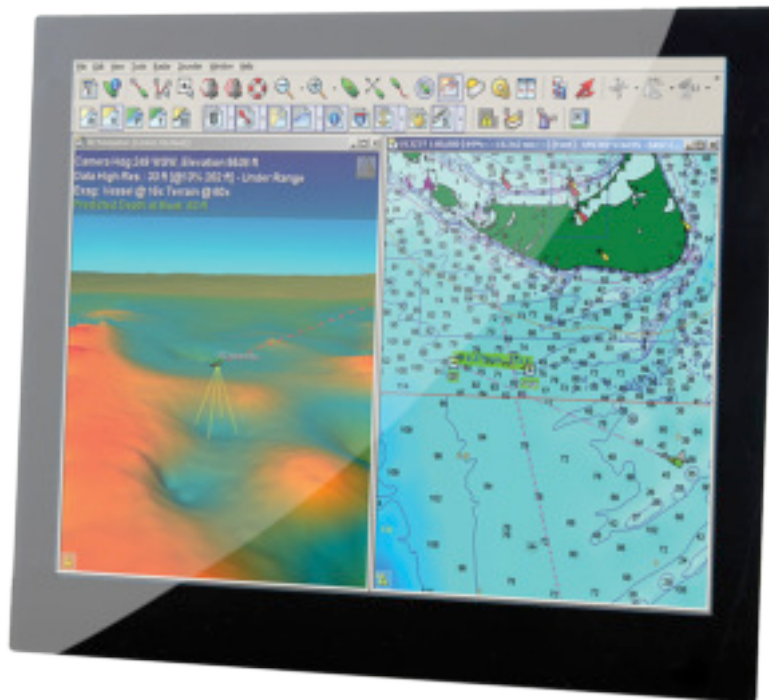




V-SRT Series User Manual





Please read this manual in its entirety before installing and/or operating any V-SRT display.

SAFETY WARNINGS



WARNING

Product installation

This equipment must be installed and operated in accordance with the instructions provided. Failure to do so could result in poor product performance, personal injury, and/or damage to your boat.



WARNING

Lightning strikes

To prevent damage caused by lightning or abnormal current peaks, disconnect the display from the power source during intense storms, or when it is not being used for long periods of time.



WARNING

Electrical safety

Make sure you have switched off the power supply before you start installing this product.



WARNING

Navigation aid

When this product is used within a navigation system, it is only an aid to navigation. It's accuracy can be affected by many factors, including equipment failure or defects, environmental conditions and improper use or handling. It is the user's responsibility to exercise common prudence and navigational judgements. This product should not be relied upon as a substitute for such prudence and judgement. Always maintain a permanent watch so that you can respond to situations as they develop.



WARNING

High voltage

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 operator should never remove the display unit cover or attempt to service the equipment.

CAUTIONS



CAUTION

Cleaning

DO NOT use acid, ammonia based or abrasive products.



CAUTION

Thermal circuit breaker

If you do not have a thermal circuit breaker or fuse in your power circuit, e.g. fitted to the DC distribution panel, you MUST fit an in-line breaker or fuse to the positive (red) lead of the power cable.



CAUTION

Power requirements

This display is not intended for use on "positive" ground boats. The power input cable earth screen connections must be connected directly to the boats ground.



CAUTION

Cable runs

DO NOT pull the cable through bulkheads using a cord attached to the connector. This may damage the connections

On Screen Display Operation

With the On-Screen-Display (OSD) you can quickly modify the settings and control individual features of the VSRT Displays. The OSD list menus that allow you to activate or change special features on or off. All configuration changes are done using the OSD-keypad.

Control Button Functions



Power Button*: Quick press powers on, Press and Hold powers off.



Menu Button: Press - For Main Menu.

Secondary Function: when in Main Menu - acts as Enter KEY to select sub-menus, and select highlighted functions



Up/Down Buttons: Dimming control up & down.



Secondary Function: when in Main Menu - allows scrolling through menu functions











Check Button: Press and release toggles through inputs.

Secondary Function: backs out of the menu.

* **NOTE:** DVI 1 is the default input on all VSRT units. This means when the unit is powered off by circuit breaker, or hard power is turned off to the unit, when power is reapplied the unit will default to DVI 1.

When unit is turned off by power button (soft power off), and turned on again by power button the unit will default to last state used.

-  Step 1: Press Power on.
-  Step 2: Press the menu button to pull up the main menu.
-  Step 3: Use the up down arrows to navigate through functions.
-  Step 4: Press the Menu Button to activate sub-menu settings.
-  Step 5: Use the up/down buttons to get to the desired function.
-  Step 6: press the menu button to activate that function
-  Step 7: Use the up/down to make adjustment of the selected function.
-  Press the Check button to back out of each step to exit completely and close the menu or menu will automatically time out.

Main Menu

Input Select

Main Picture Channel	DVI1	Set main input to selected input		
	VGA			
	DVI2			
	Display Port			
	Comp1			
	Comp2			
	Comp3			
	Comp4			
	Scan Input		On	Enable scanning of Main and PiP inputs
Off		Disable scanning of inputs		
PiP Mode	Off	Disable PiP		
	Small	Shown PiP in small window		
	Large	Show PiP in large window		
	Side by Side	Show PiP Side by Side		
PiP Channel	DVI1	Set PiP channel to selected input		
	VGA			
	DVI2			
	Display Port			
	Comp1			
	Comp2			
	Comp3			
	Comp4			
PiP Position	Bottom / Right	Set PiP to lower-right corner		
	Top / Right	Set PiP to upper-right corner		
	Bottom / Left	Set PiP to lower-left corner		
	Top / Left	Set PiP to upper-left corner		
Swap Main & PiP	Swap main an PiP channel			

Main Menu			
Image Adjustments	Sharpness	0 – 24	12 = Disabled 11 - 0 = smoothing filter 13 – 24 = sharpness filter (only working on analogue inputs)
	Gamma	Off	Disable Gamma correction
		1.8	Modify output Gamma by selected correction table
		2.0	
		2.2	
		2.4	
2.6			
Image Adjustments Advanced	Dynamic NR Mode	Off	Disable dynamic noise reduction
		Adaptive	Set noise filter strength dynamically depending on measured noise data
		Low	Set static noise reduction filter
		Medium	
		High	
		Max	
	MPEG NR Mode	On	Enable/Disable MPEG noise reduction to compensate MPEG/JPEG artefacts
		Off	
	DCDi	On	Enable/Disable “Directional Correlation DeInterlacing” that eliminates jagged edges doing low-angle diagonal interpolation
		Off	
	Motion Processing	Off	Disable motion processing for interlaced inputs
		Adaptive	Combine normal de-interlacing with motion detection
		Normal	Odd and even filed will be outputted together
	Film Mode	Off	Disable film mode detection
		Video 2:2	Enable film mode detection using selected method
		Video 3:2	
		Video 3:2+2:2	
	Decoder Settings	Y-Bias	Luminance bias for video decoder
Y-Gain		Luminance gain of video decoder	
C-Gain		Color gain of video decoder	

Main Menu			
Image Adjustments	Auto Adjust	Setup and settle input image automatically On success, mode data will be save for this mode	
	Clock	Range dep. on input	Adjust horizontal total
	Phase	0 - 63	Adjust H-Phase
	Hor. Position	Range dep. on input	Shift image depending on H-Porches
	Ver. Position	Range dep. on input	Shift image depending on V-Porches

Main Menu			
Color Adjustment	Scheme	Off	Scheme is disabled
		Vivid	Vivid color scheme
		Cinema	Cinema color scheme
		Gaming	Gaming color scheme
	Backlight	0 - 100	Adjust intensity of backlight
	Brightness	0 - 100	Adjust digital brightness
	Contrast	0 - 100	Adjust digital contrast
	Color Temp.	User	Disable color temp. and activate user RGB adjustments
		4200K	Set color temperature to desired value in Kelvin
		5000K	
		6500K	
		7200K	
	9300K		
	RGB	Red	Adjust user color Range 0 - 100
Green			
Blue			
Saturation	0 - 100	Adjust Saturation (only possible on Video / SVideo)	
Hue	0 - 100	Adjust Hue (only possible on Video / SVideo)	
Auto Color Adjust		Calibrate internal ADC's	

Main Menu			
Scaling Adjustments	Main Scaling Mode	Full Screen	Zoom/shrink input to fully fit into display
		Letter Box	Select different Letter Box and Pillar Box scaling modes
		Pillar Box	
		Letter Box Expand	
		Pillar Box Expand	1:1 scaling
	Native		
	Zoom	Hor.	Horizontal zoom in %
		Ver.	Vertical zoom in %
	Zoom Pos.	Hor.	Select horizontal and vertical position of zoom window in %
		Ver.	

Main Menu			
Audio Settings	Volume	0 - 100	Master volume
	Balance	-10 to +10	Balance between left and right audio channel
	Bass	-10 to +10	Increase / decrease bass
	Treble	-10 to +10	Increase / decrease treble
	Auto Volume	On	Enable / Disable auto volume
		Off	This keeps volume on master volume level

Main Menu

OSD Settings

OSD Settings	OSD Timeout	0 - 60	OSD Timeout in seconds, 0 = Disable timeout
	OSD Hor. Pos.	0 - 100	Horizontal OSD position in %
	OSD Ver. Pos.	0 - 100	Vertical OSD position in %
	OSD Blend	0 - 10	OSD transparency 0 = No transparency 10 = maximum level of transparency
	OSD Orientation	0°	Rotation of OSD
		90°	
		180°	
		270°	
OSD Language	English	OSD Language	
	German		
	French		
	Italian		
	Spanish		

Main Menu

System Settings	Info	Main: DisplayPort 1920x1200@60Hz Firmware Version: V1.18 Jul 16 2015 Panel type: LM240WU9
	Mode Info	Main: DisplayPort 1920x1200@60Hz Mode Nr 5 STD H/V Total 2080-1234 H/V Start 112-32 Hor freq 74 kHz Sync pol H+ V-
	Restore user defaults	Restore further saved user defaults
	Save user defaults	Save use defaults
	Reset factory default	Reset factory defaults This will load firmware defaults but not erases the previous saved user defaults

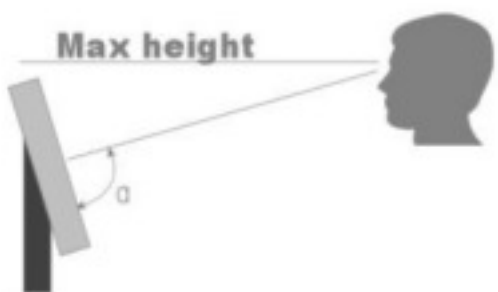
Installation

Warning note: *Before Installing make sure all power is turned off. Check the power source is compatible with the power input of your monitor.

Choosing the correct location

The VSRT Series models are Panel mount only displays

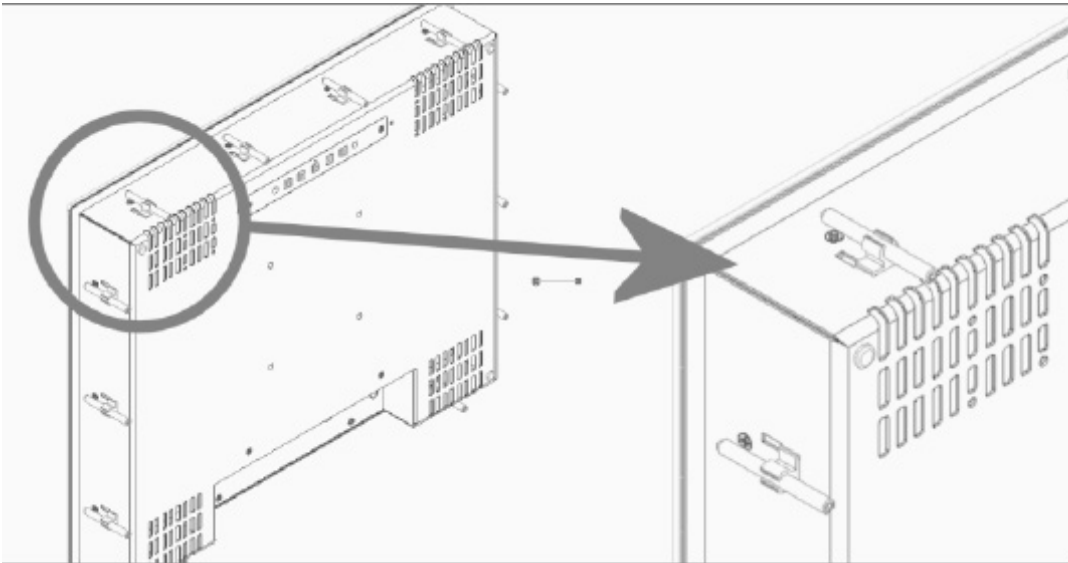
There should always be sufficient airflow at the back of the monitor to avoid recirculated heated air that will cause damage to your displays and electronics. Make sure there is minimal direct sunlight on the monitor as this could reduce the life of the unit.



Viewing angle is an theoretical value measured with standard colors and contrast. In real life the monitor should be installed with angle: $120 < \alpha < 90$. This means that viewing from bottom side should be avoided. For viewing convenience install the monitor below eye-level (max height).

Panel Mount Installation

The monitor is supplied with mounting brackets for top, bottom, and side mounting positions. All brackets should be installed as shown in figure below to ensure safe and rigid mounting.

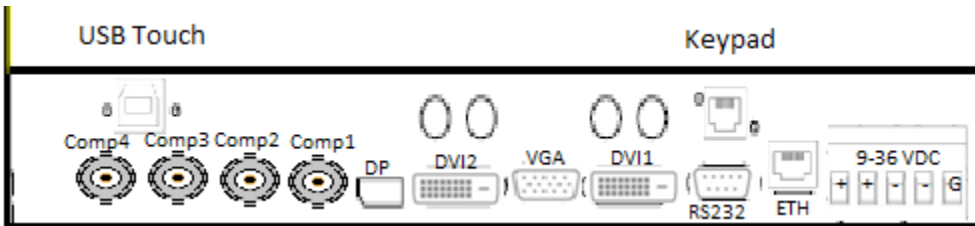


Steps:

Locate the proper position for the monitor and take the following into account:

1. Leave space around the monitor to ensure sufficient airflow for cooling to meet the temperature specifications mentioned in this manual.
2. Mount the monitor in an angled position ($\geq 35^\circ$ from horizontal) to ensure airflow through the monitor.
3. Make sure that there is enough airflow (cooling) in console. Install a cooling device (fan) if necessary.
4. Make a cutout in the console using the corresponding dimensional drawing to the match the specific model and size unit.
5. Adhere Gasket to display.
6. Carefully Install monitor into cut-out. *Do not force.
7. Attach mounting clips in rear of display and tighten. Do not over-tighten as this will cause image distortion and/or white spots.

Monitor Inputs



Warranty

Seatronx products are warranted against defects in materials and workmanship for a period of two (2) years from the date of shipment to the buyer. The two (2) year limited warranty provides coverage on parts for two (2) years and labor for one (1) year provided that the unit is used according to applicable instructions and is operated under normal conditions.

Warranty coverage is provided at Seatronx repair facility and is limited to the repair or replacement of the defective unit at the option of Seatronx.

The warranty is void under the following conditions:

1. Units returned with broken seals or seals removed.
2. Alterations, modifications or repairs that were not approved by Seatronx.
3. Product that has been abused, misused or has been in an accident.

All other warranties, expressed or implied, are excluded, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

