

LDM163-182

All-in-One Direct View LED Display User Guide

IMPORTANT: Please read this User Guide to obtain important information on installing and using your product in a safe manner, as well as registering your product for future service. Warranty information contained in this User Guide will describe your limited coverage from ViewSonic® Corporation, which is also found on our web site at http://www.viewsonic.com in English, or in specific languages using the Regional selection box of our website.

Model No. VS19934 P/N: LDM163-182

Thank you for choosing ViewSonic®

As a world-leading provider of visual solutions, ViewSonic® is dedicated to exceeding the world's expectations for technological evolution, innovation, and simplicity. At ViewSonic®, we believe that our products have the potential to make a positive impact in the world, and we are confident that the ViewSonic® product you have chosen will serve you well.

Once again, thank you for choosing ViewSonic®!

Safety Precautions

Please read the following **Safety Precautions** before you start using the device.

- Keep this user guide in a safe place for later reference.
- Read all warnings and follow all instructions.
- Ensure there is no direct airflow from air conditioning blowing on the display.
- Do not use the device near water. To reduce the risk of fire or electric shock, do not expose the device to moisture.
- Avoid exposing the device to direct sunlight or other sources of sustained heat.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that may increase the temperature of the device to dangerous levels.
- When moving the device, be careful not to drop or bump the device on anything.
- Do not place the device on an uneven or unstable surface. The device may fall over resulting in an injury or a malfunction.
- Do not place any heavy objects on the device or connection cables.
- If smoke, an abnormal noise, or a strange odor is present, immediately turn the device off and call your dealer or ViewSonic[®]. It is dangerous to continue using the device.
- Do not attempt to circumvent the safety provisions of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the plug does not fit into your outlet, obtain an adapter and do not attempt to force the plug into the outlet.
- When connecting to a power outlet, DO NOT remove the grounding prong. Please ensure grounding prongs are NEVER REMOVED.
- Protect the power cord from being treaded upon or pinched, particularly at the plug, and at the point where it emerges from the equipment. Ensure that the power outlet is located near the equipment so that it is easily accessible.
- Only use attachments/accessories specified by the manufacturer.
- When a cart is used, use with caution when moving the cart/equipment combination to avoid injury from tipping over.



• Disconnect the power plug from the AC outlet if the device is not being used for a long period of time.

- Place the device in a well-ventilated area.
- Do not cover the surface of the display with any material.
- Do not block the air circulation around the display.
- Keep flammable materials away from the display.
- Refer all servicing to qualified service personnel. Service will be required when the unit has been damaged in any way, such as:
 - » if the power supply cord or plug is damaged;
 - » if liquid is spilled onto or objects fall in the unit;
 - » if the unit is exposed to moisture;
 - » if the unit does not operate normally or has been dropped.
- Do not assemble the display by yourself.
- This panel is an advanced product that contains millions of pixels. You may occasionally see pixel spots when viewing the screen. Since these deactivated pixels are not a defect, the performance and reliability of the product is not affected. For more information, please see page 87.

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Introduction

Package Contents

ltem	Description	Quantity	Note
Installation Guide		1	
	Cabinet Section	6	Six sections labeled: A~F
LED Display	LED Module	148	The quantity of spare LED modules varies by country.
Screen Bezel		5 x Left 5 x Right	
	System Control Box	2	
	System Control Box Cover	2	
System Control Box	Connector Plate	1	
System Control Box	System Control Box Maintenance Tool (LD-MK-004)	1	
Mall Installation	Wall Mount Brackets	4	4 x 1799 mm 2 x 1199 mm
Wall Installation	Wall Mount Connector Plate	2	
Accessories	Screws	26 × M8 × 80 mm 28 × M8 nuts 74 × M8 × 20 mm 12 × PM6 × 10 mm 20 × M3 × 10 mm 6 × M3 × 6 mm 5 × M2.5 × 4 mm 24 x PM3 x 10 mm	
	Hand Tools	2 x Cross-head screwdrivers 2 x Rachet wrenches	
	Anti-Static Gloves	2 pairs	

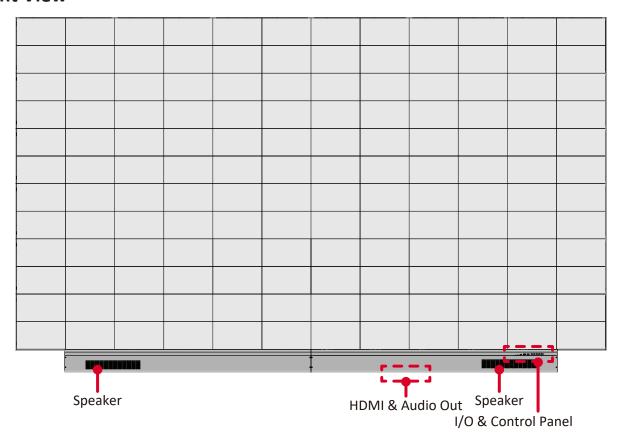
Item	Description	Quantity	Note
Remote Control		1	
Ethernet Cable (3.5 m)		1	
IR Extension Cable (3 m)		1	
Suction Tool (LD-MK-006)		1	
USB Thumb Drive		1	

NOTE:

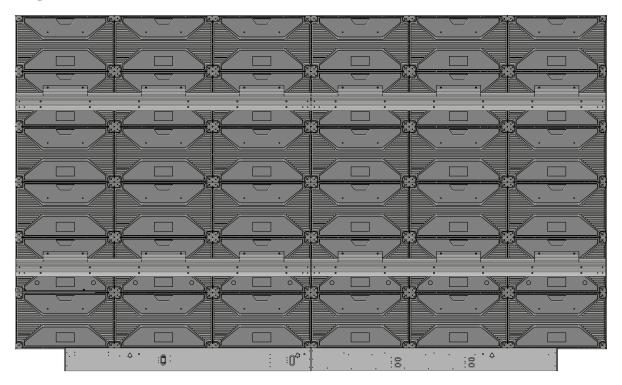
- This product is packed in a wooden crate.
- Due to the size and weight, it is recommended that two or more people handle it.
- The base stand (trolley) is an optional accessory and sold separately.

Product Overview

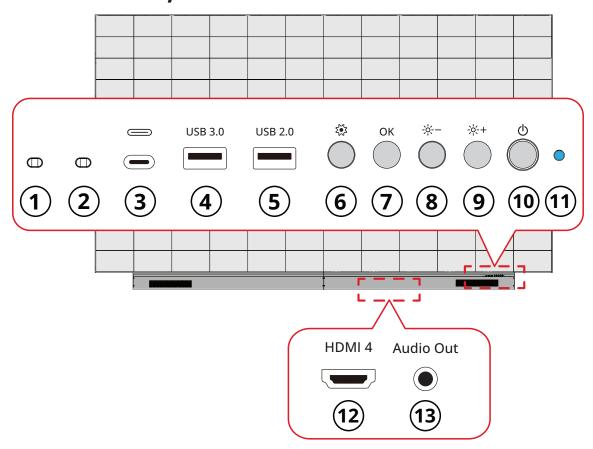
Front View



Rear View



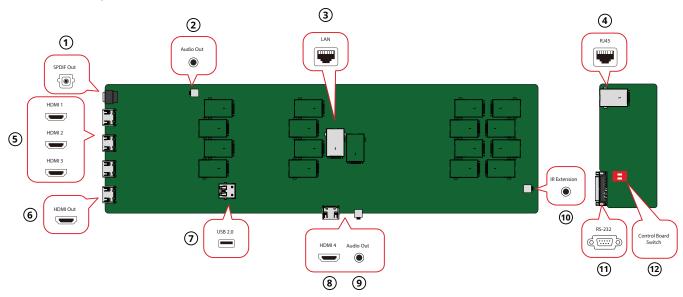
Control Panel and I/O



	Item	Description
1	Light Sensor	Ambient light sensor.
2	IR Receiver	Receiver for remote control signal.
3	USB Type C	USB 2.0 support (5V/1.0A).
4	USB 3.0	USB Reader (5V/0.9A).
5	USB 2.0	USB Reader (5V/0.5A).
6	Menu	Open the display settings or On-Screen Display (OSD) Menu.
7	Brightness/OK	Brightness adjustment button.Confirm selection when the OSD Menu is open.
8	Brightness Decrease	Decrease the brightness level.
9	Brightness Increase	Increase the brightness level.
10	Power	Power on, standby and wake button.
11	Indicator Light	Power status indicator light.
12	HDMI 4	High definition input: PIP/PBP, connect to PC with HDMI output, set-top box, or other video device.
13	Audio Out	Audio output to an external audio device.

I/O Ports

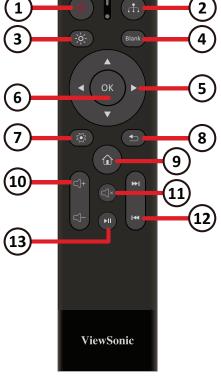
NOTE: The below I/O ports are accessed by removing the right side of the System Control Box Cover.



	Item	Description	
1	SPDIF Out	Multi-channel optical audio signal.	
2	Audio Out	Audio output to an external audio device.	
3	LAN	Standard RJ45 (10M/100M/1000M) Internet connection interface.	
4	RJ45	Standard RJ45 control connection interface.	
5	HDMI 1/2/3	High definition input: PIP/PBP, connect to PC with HDMI output, set-top box, or other video device.	
6	HDMI Out	Extend the display's content out to another display device.	
7	USB 2.0	USB Type A port for power (5V/2A).	
8	HDMI 4	High definition input: PIP/PBP, connect to PC with HDMI output, set-top box, or other video device.	
0	HDIVII 4	NOTE: This port can also be accessed without removing the System Control Box Cover.	
		Audio output to an external audio device.	
9	Audio Out	NOTE: This port can also be accessed without removing the System Control Box Cover.	
10	IR Extension	Connection point for an extended IR receiver.	
11	RS-232	Serial control port.	
12	Control Board	Control switch for the control board.	
12	Switch	NOTE: Make sure to switch to the left for RS-232 control.	

Remote Control

	Button	Description	
1	Power	Turn the display on or off.	
2	Source	Select the input source.	
3	Brightness	Adjust the screen's brightness level.	
4	Blank	Change the current screen to a black screen.	
5	Directional	Navigate menus and make adjustments.	
6	ОК	Confirm the selection.	(
7	Menu	Open the display settings or On-Screen Display (OSD) Menu.	(1
8	Return	Return to the previous screen or exit a menu.	(1
9	Home	Go to the Home screen.	
10	Volume Control	Adjust the volume level.	
11	Mute	Turn off the display's sound.	
12	Forwards/ Backwards	Move to next or previous content.	
13	Play/Pause	Play or pause content.	



Bluetooth Remote Control Pairing

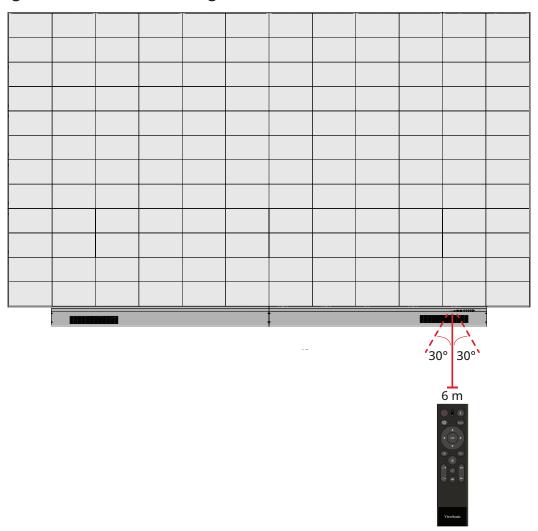
To pair the remote control:

- 1. Make sure Bluetooth is enabled, go to: Settings > Network > Bluetooth > Enable.
- 2. Press and hold the Menu (♠) and Return (♠) buttons for approximately three seconds until the indicator on the remote control flashes blue.
- **3.** If the pairing is successful, a pop-up message will appear on the screen.

NOTE: If the pairing is unsuccessful after one minute, please try again by repeating Step 1 above.

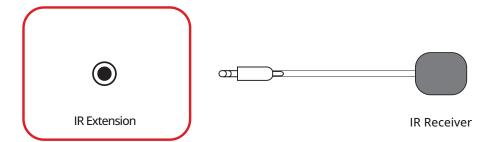
Remote Control Receiver Range

The operating range of the remote control is shown here. It has an effective range of 6 meters (20 feet), 30° degrees left and right. Please make sure there is nothing obstructing the remote control's signal to the receiver.



IR Extension

If an additional IR Receiver is needed, an IR extension cable can be connected to the **IR Extension** port of the display.



NOTE: The **IR Extension** port is accessed by removing the System Control Box Cover.

Inserting Remote Control Batteries

The remote control is powered by two 1.5V "AAA" batteries.

To insert batteries into the remote control:

- 1. Remove the cover on the rear of the remote control.
- 2. Insert two "AAA" batteries, ensuring the positive (+) symbol on the battery matches the positive (+) symbol on the battery post.
- **3.** Replace the cover by aligning it with the slot on the remote control and snapping the latch shut.

WARNING: There is a risk of explosion if batteries are installed with incorrect polarity.

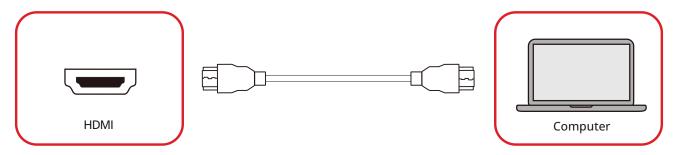
NOTE:

- It is recommended that you do not mix battery types.
- Avoid exposure to heat or steam.
- Do not allow water or other liquids to splash on the remote control. If the remote control becomes wet, wipe it dry immediately.
- Always dispose of old batteries in an environmentally friendly way. Contact your local government for more information on how to dispose of batteries safely.

Making Connections

Connecting to Video

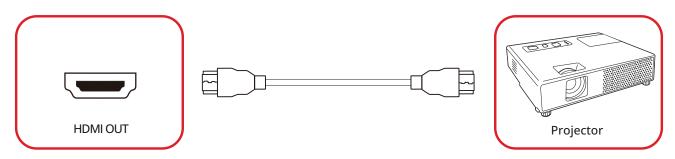
HDMI



Connect an HDMI cable from your external device to the **HDMI 1/HDMI 2/HDMI 3/HDMI 4** port on the display.

NOTE: The **HDMI 1/HDMI 2/HDMI 3** port is accessed by removing the System Control Box Cover.

HDMI Out

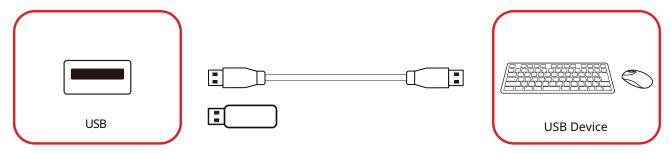


To output video via an external display device, connect an HDMI cable to the **HDMI IN** port of your external display device, and the other end to the **HDMI OUT** port of the display.

NOTE: The **HDMI OUT** port is accessed by removing the System Control Box Cover.

USB Connection

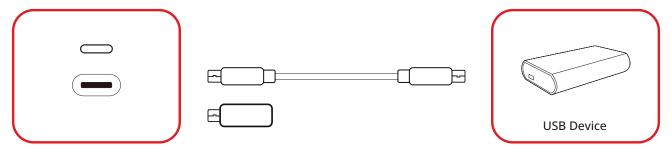
USB Type A



Plug the USB device or storage drive into a USB Type A (**USB 3.0** or **USB 2.0**) port on the display's control panel.

NOTE: An additional USB Type A port can be accessed by removing the System Control Box Cover; however, it is for power transfer only (5V/0.5A).

USB Type C



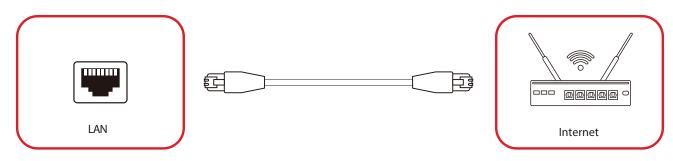
Plug the USB device or storage drive into the USB Type C (

) port on the display's control panel.

NOTE: The USB Type C port is for data transfer only.

Network Connection

LAN

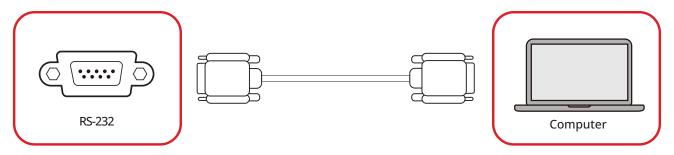


To connect to a network, connect an Ethernet cable to your network, then connect the other end to the **LAN** port of the display.

NOTE: The **LAN** port is accessed by removing the System Control Box Cover.

Control Connection

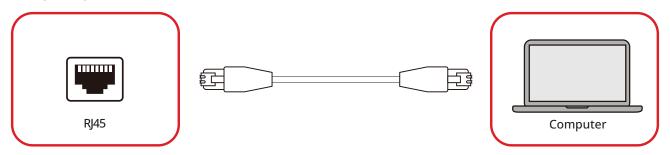
RS-232 (DB 9-pin)



When you use a RS-232 serial cable to connect the display to an external computer or control system, certain functions can be controlled remotely such as: power on and off, volume adjustment, input select, brightness, and more.

NOTE: The RS-232 port is accessed by removing the System Control Box Cover.

RJ45 (LAN)



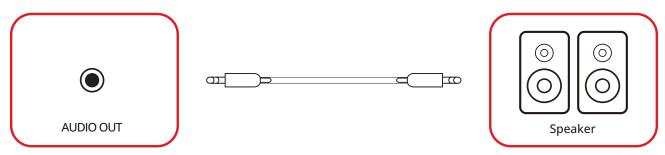
When you use an Ethernet cable to connect the display to an external computer or control system, certain functions can be controlled remotely such as: power on and off, volume adjustment, input select, brightness, and more.

NOTE: The RJ45 port is accessed by removing the System Control Box Cover.

Audio Connection

Audio Out

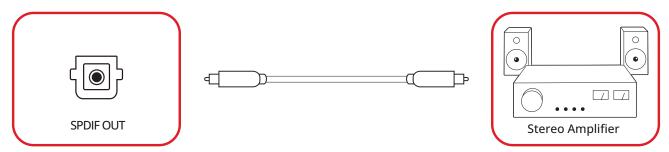
To play audio from the display through an external speaker, connect one end of an audio cable to the external speaker, and the other end to the display's **Audio Out** port.



NOTE: The display is equipped with two **Audio Out** ports, one can be accessed externally, while the other is accessed by removing the System Control Box Cover.

SPDIF

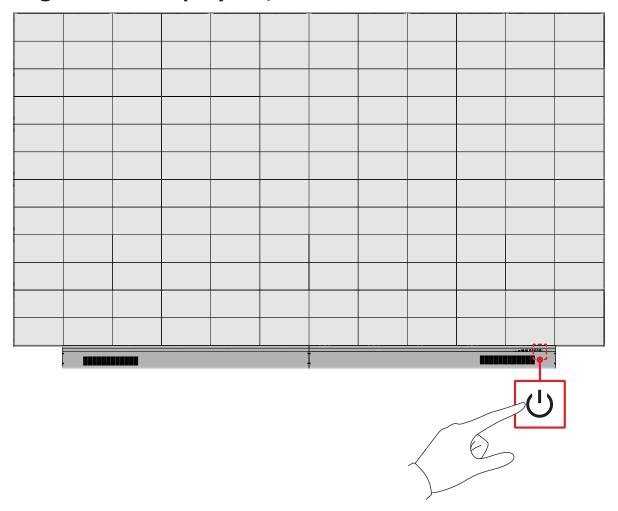
To play audio from the display through an external speaker, connect one end of an optical cable to the external speaker, and the other end to the display's **SPDIF Out** port.



NOTE: The **SPDIF Out** port is accessed by removing the System Control Box Cover.

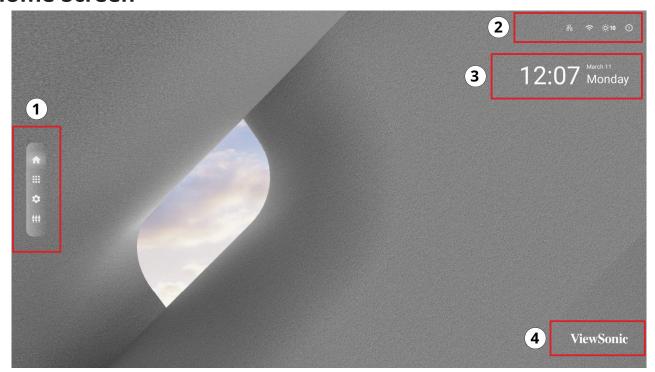
Using Your Display

Turning the LED Display On/Off



- **1.** Make sure the power cord is connected and plugged into a power outlet.
- 2. Press the \circlearrowleft Power button to turn on the display.
- 3. To turn the display off, press the \circlearrowleft Power button again.

Home Screen



Number	Item	Description
1	Main Menu	Access the Home Screen, App Center, Settings, and Input Source.
2	Quick Access	Quick access to WAN/LAN, Wi-Fi, Brightness, and Power. NOTE: Only supported by keyboard and mouse.
3	Date & Time	Adjust and show or hide the Date & Time by going to: Settings > Device > Launcher Settings
4	ViewSonic Logo	Show or hide the logo by going to: Settings > Display > Launcher Settings

Navigating the Home Screen

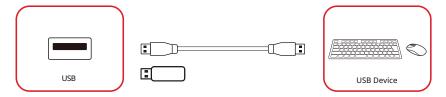
Remote Control

The remote control can be used to easily navigate the Home Screen. When using the remote control, ensure it is kept within the IR receiver range as shown below:

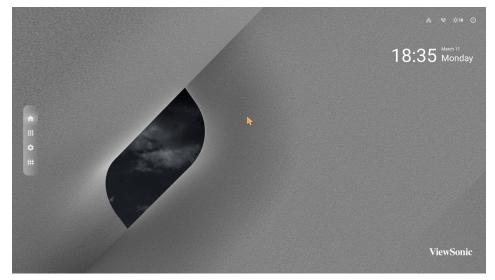


Keyboard and Mouse

When connected to the USB Type A port of the display, a keyboard and mouse can also be used to navigate the Home Screen.



An orange mouse pointer will appear on the display when used.



- The left mouse button will confirm actions.
- The right mouse button will go back to the previous layer.

App Center

Installed applications will be in the App Center.



Icon	Name	Description
0	Settings	Adjust and view the display's settings.
9	Chromium	Web browser.
	Folders	File explorer.
a	vSweeper	Resource management tool.
	OfficeSuite	Create documents, spreadsheets, and presentations.
	myViewBoard Display	Wirelessly mirror your desktop.
6	myViewBoard Manager	Remote device management.
(V e))	vCast	Receive casted content from other devices.

NOTE: Pre-installed applications are subject to change without notice.

Input Source

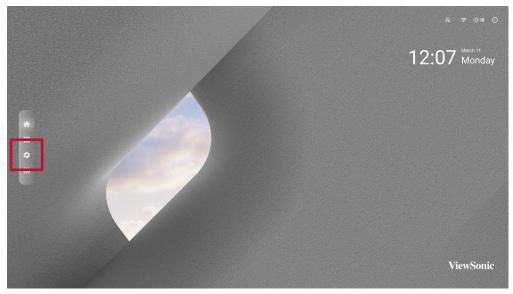


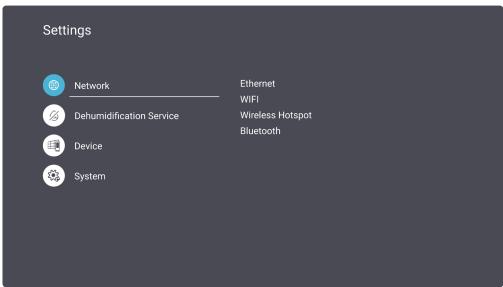
The display supports eight input sources: **Home**, **HDMI 1**, **HDMI 2**, **HDMI 3**, **HDMI 4**, and **Custom**.

NOTE: The **Custom** input source is used to quickly access custom applications. To select the custom application, go to: **Settings** > **Device** > **Signage Display** > **Custom App**.

Settings

Adjust and view the display's settings.





Menu	Description
Network	View and adjust Ethernet, Wi-Fi, Wireless Hotspot, and Bluetooth settings.
Dehumidification Service	View and adjust dehumidification settings and start the dehumidification process.
Device	View and adjust Signage Display, System Tools, Display, Apps, Audio, Physical Keyboard, Input method, and Launcher settings.
System	View and adjust Date & Time and About settings.

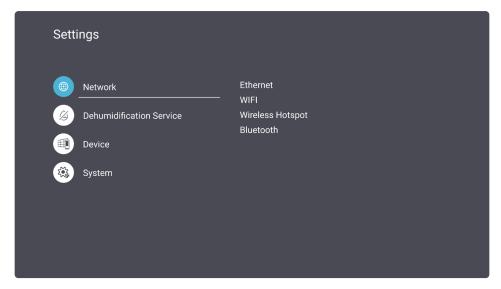
Settings Menu Tree

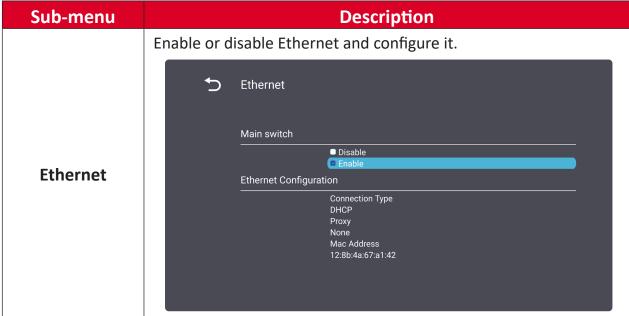
Main Menu	Sub-menu	Menu Option	
		Main Coultale	Disable
	Ethernet	Main Switch	Enable
		Ethernet Configuration	Connection Type
			Mac Address
		Disable	
	Wi-Fi	Enable	
Notare		Add Wi-Fi	
Network	Wireless Hotspot	Main Switch	Disable
			Enable
		Hotspot Configuration	Network Name
			Security Type
	Bluetooth	Bluetooth	Disable
			Enable
		Available Device	
	Dehumidification Dehumidification Low	Shutdown	
		Low	
Dehumidification	Settings	Level	Middle
Service			High
	Begin Dehumidification Now		

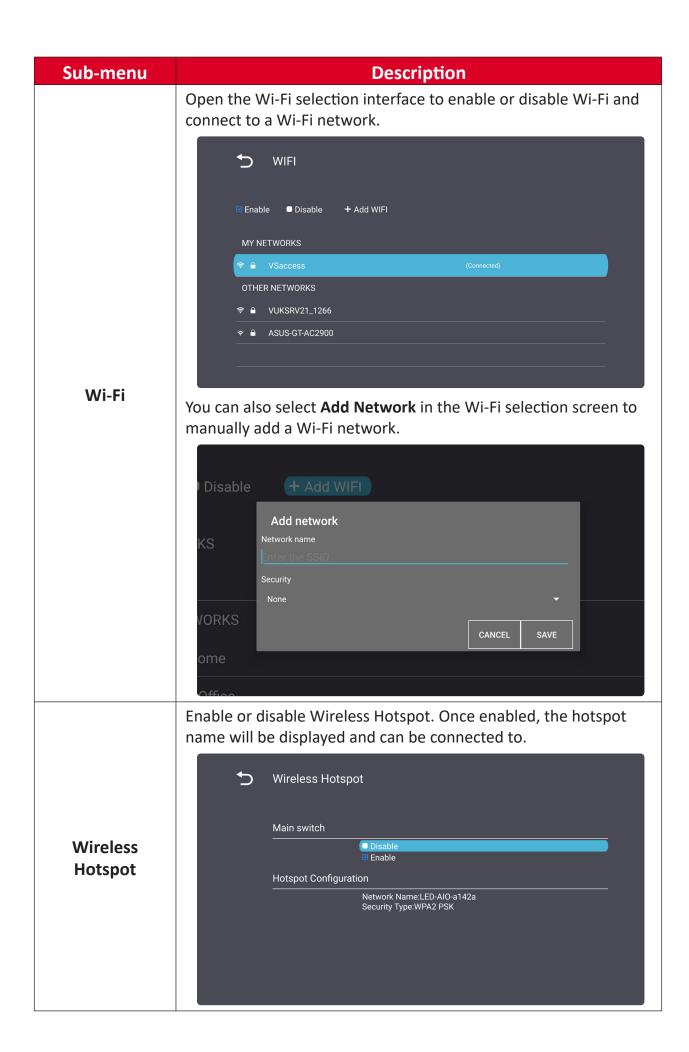
Main Menu	Sub-menu	Menu	Menu Option	
			Signage Display Name	
		General Settings	Boot Logo	
		Source Settings	Custom App	
		Credential Settings	Trusted Credentials	
			User Credentials	
	Signage Display		Install from Storage	
	Signage Display		Clear Credentials	
		Security	External Storage	
			Unknown Sources	
			Privacy and Copyright Protection	
			App Authority	
		Clear Storage	All	
			Internal Storage	
			USB Storage	
	System Tools	Reset	Factory Reset	
Device		Import & Export	Export Signage Display Settings	
			Import Signage Display Settings	
		Clone	Clone Media Files	
	Display	Font Size		
	Display	Screen Saver		
		Running		
	Apps	All		
		Download		
	Physical Keyboard			
	Launcher Settings	ViewSonic Logo	On	
La		viewoonic Logo	Off	
		Date & Time	On	
			Off	
		Theme		
	Input Method			

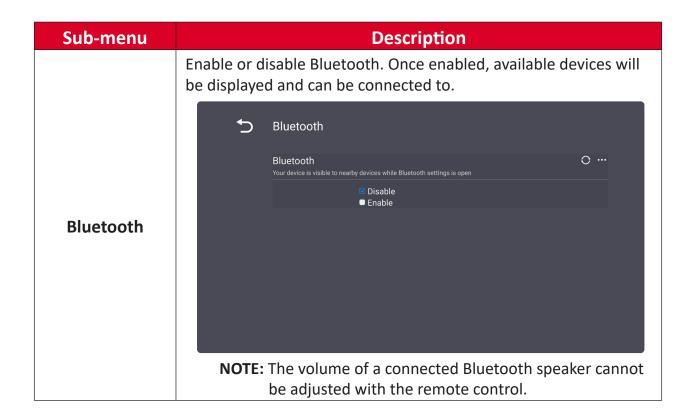
Main Menu	Sub-menu	Menu
System	Date & Time	Select Time Zone
		NTP Server
	About	Local System Updates
		Online System
		Updates
		Asset Tagging
		Legal Information
		Android Version
		Kernel Version
		Build Number
		Operation Hours

Network

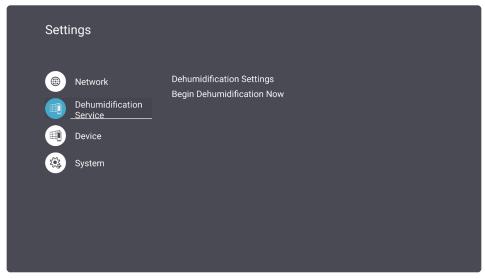


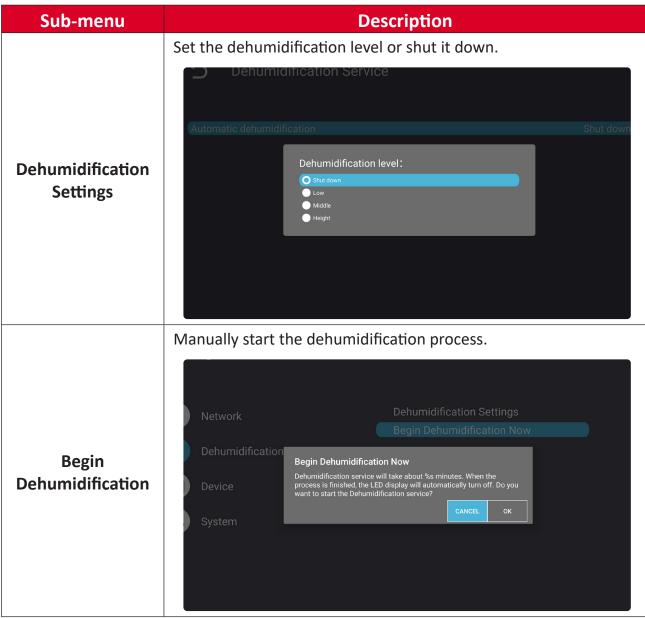




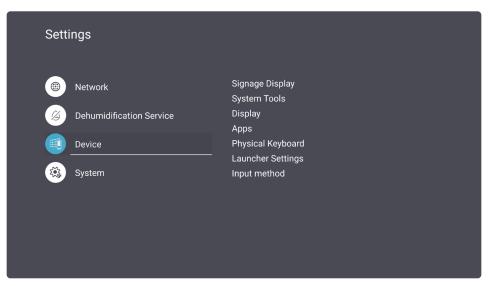


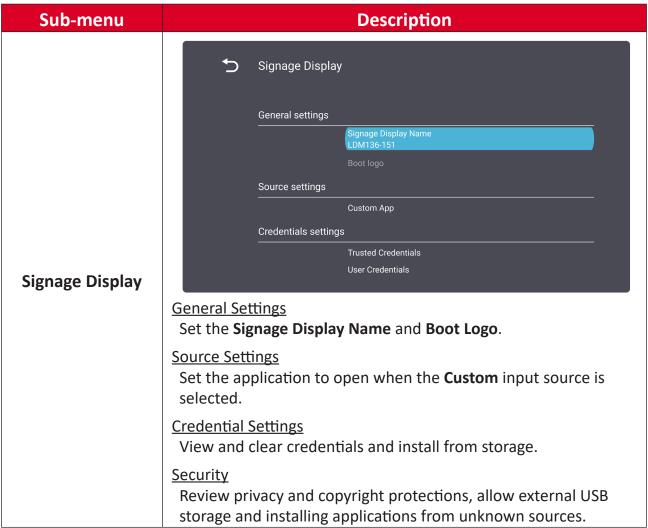
Dehumidification Service

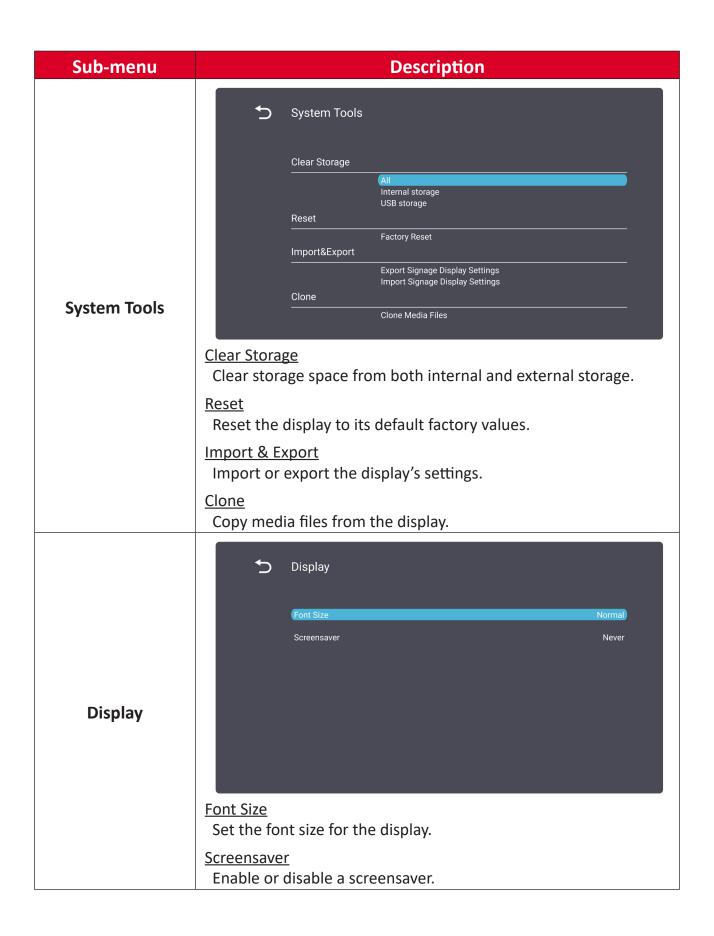


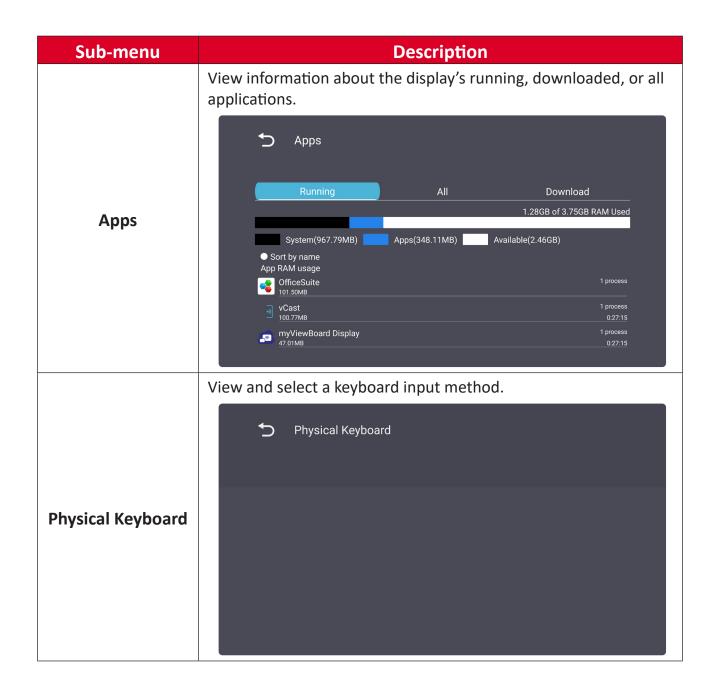


Device



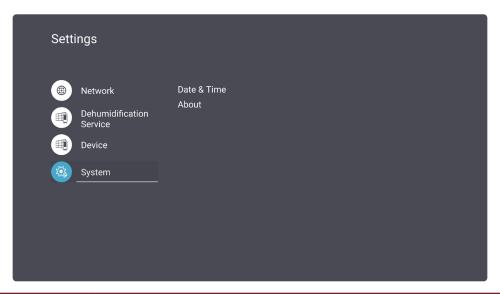


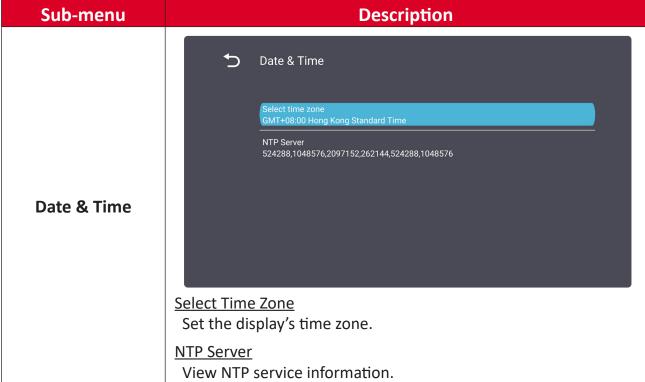


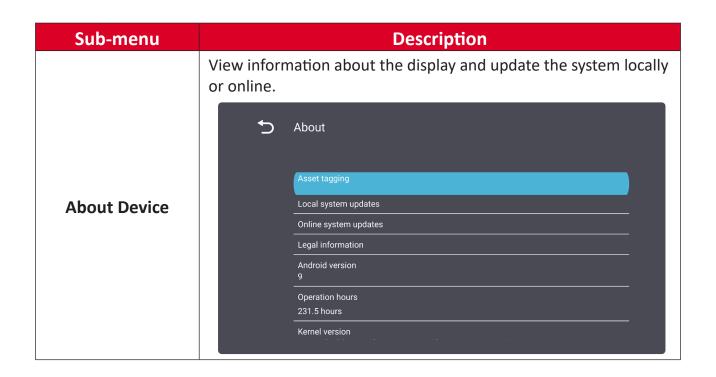


Sub-menu	Description
Launcher Settings	ViewSonic Logo Date & Time Theme
	ViewSonic Logo Display or hide the ViewSonic logo on the Home Screen. Date & Time Display or hide the Date & Time on the Home Screen. Theme
Input Method	Set the theme for the Home Screen. View and select an input method.

System



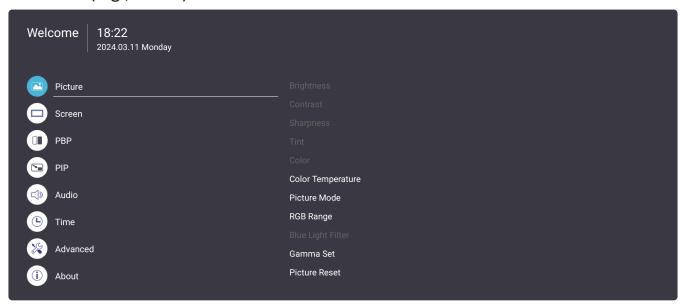




On-Screen Display (OSD) Menu

Use the On-Screen Display (OSD) Menu to adjust settings.

NOTE: The OSD Menu is only available when there is an active input source (e.g., HDMI).



To open and operate the OSD Menu:

- 1. Press the **MENU** (🔅) button on the remote control.
- **2.** Press $\nabla/\triangle/\triangleleft/\triangleright$ on the remote control to select menu items or adjust values.
- **3.** Press **OK** to confirm your selection.
- **4.** Press the **RETURN** (**≤**) button to go back to the previous menu level.
- **5.** Press the **MENU** (③) button to exit the OSD Menu.

On-Screen Display (OSD) Menu Tree

Main Menu	Sub-menu	Menu Option
	Brightness	(-/+, 0~100)
	Contrast	(-/+, 0~100)
	Sharpness	(-/+, 0~15)
	Tint	(-/+, 0~100)
	Color	(-/+, 0~100)
		Warm
	Color Toron orotura	Normal
	Color Temperature	Cool
		User
		Normal
Distance	Distance Manda	Dynamic
Picture	Picture Mode	Soft
		User
		Full Range
	RGB Range	Limited Range
		Auto
	Blue Light Filter	(-/+, 0~100)
		Native
	Gamma Set	2.2
		2.4
	Distance Desert	Cancel
	Picture Reset	Reset
	Zoom Mode	Full
		Real
Company		Dynamic
Screen		21:9
	Screen Reset	Cancel
		Reset

Main Menu	Sub-menu	Menu Option
		Full Screen
		Dual Screen
	PBP Mode	Three-part Screen
222		Center Screen
PBP		Quad Screen
	PBP Source	
	PBP Audio	
	PBP Reset	
		Top Left
		Top Right
	PIP Mode	Bottom Left
DID		Bottom Right
PIP	PicMain	
	PicSub	
	PIP Audio	
	PIP Reset	
	Treble	(-/+, 0~24)
	Bass	(-/+, 0~24)
	Volume	(-/+, 0~100)
	Maximum Volume	(-/+, 0~100)
	Minimum Volume	(-/+, 0~99)
Audio	Muto	Off
Audio	Mute	On
		Speaker
	Volume Control	SPDIF
		Headset
	Audio Reset	Cancel
		Reset

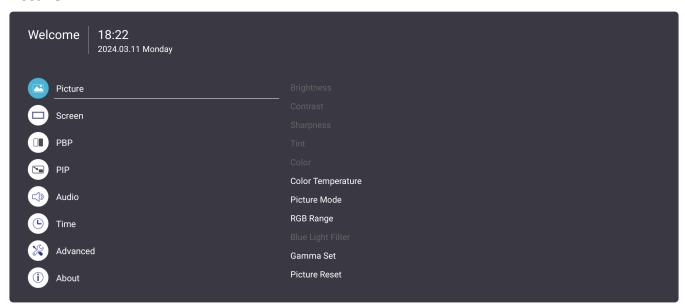
Main Menu	Sub-menu	Menu Option	
	Off Time	Off	
		(10 mins~240 mins)	
		Use Network-Provided Time	
	Data and Time	Set Date Format	
	Date and Time	Choose Time Zone	
		Use 24-hour Format	
		Schedule List	
		Enable	
	Schedule	Start Time	
Time		End Time	
rime		Input	
		Day of the Week	
		Every Week	
	Slideshow Interval	(1s/3s/5s/10s/15s/20s/25s/30s)	
	OSD Turn Off	Off	
	OSD Turn Off	(5~120 seconds)	
	Information OSD	Off	
		(1~60 seconds)	
	Time Boset	Cancel	
	Time Reset	Reset	

Main Menu	Sub-menu	Menu Option	
		Panel Saving	Off
			On
		Power Save	Sleep
	Saving		Hibernate
		Light Consing	Off
		Light Sensing	On
		Boot On Source	Last Source
		Boot On Source	Input
	Boot		ViewSonic
	ВООС	Boot On Logo	Blue
		BOOL OII LOGO	Black
			Custom
Advanced		Auto Signal Detection No Signal Standby	Off
	Signal		On
			(Off/0 min/5 min/15 min/30 min)
	Port	HDMI with One Wire	Off
			On
		HDMI Version	1.4
			2.0
			Auto
		USB Cloning	Import
		USB Clottling	Export
		USB Auto Play	Off
			On

Main Menu	Sub-menu	Menu Option	
			Power Off
		Switch On State	Last Status
			Forced On
			English
			French
			Spanish
			German
		Language	Russian
Advanced	Other	Language	Dutch
			Traditional Chinese
			Simplified Chinese
			Turkish
			Arabic
		Factory Reset	Cancel
			Reset
		Advanced Reset	Cancel
			Reset
	Heat Status	xx° C / xx° F	
	Monitor Information	Model Name	
About		Serial No.	
		Operation Hours	
		SW Version	

Menu Options

Picture

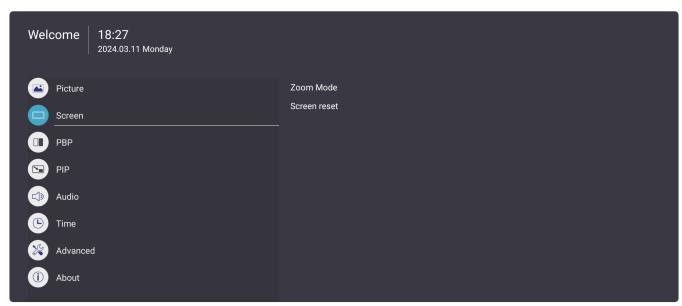


- 1. Press the MENU (③) button on the remote control to display the OSD Menu.
- **2.** Then press **OK** or use $\nabla/\triangle/\blacktriangleleft/\triangleright$ on the remote control to select the **Picture** menu.
- 3. Press ▼/▲ to select the menu option. Then press OK to display its sub-menu, or press ◀/▶ to adjust/select the setting.

Sub-menu	Description	
Brightness	Adjust the background black levels of the screen image.	
Contrast	Adjust the degree of difference between the lightest and darkest parts of the picture and changes the amount of black and white in the image.	
Sharpness	Adjust the on-screen image's clarity.	
Tint	Adjust the color balance of the screen image. The higher the value, the more greenish the image becomes. The lower the value, the more reddish the image becomes.	
Color	Adjust the amount of color in the on-screen image.	
Color Temperature	Set how color appears on screen using the Kelvin scale.	
Picture Mode	Select the mode that best fits the display's environment.	
RGB Range	Select from Full Range (black and white levels are full [0~255]), Limited Range (Black and white levels are limited [16~235]), or Auto.	
Blue Light Filter	Block high-energy blue light for a more comfortable viewing experience.	

Sub-menu	Description
Gamma Set	Manually adjust the brightness level of the monitor's grayscale levels.
Picture Reset	Reset the Picture settings to their default values.

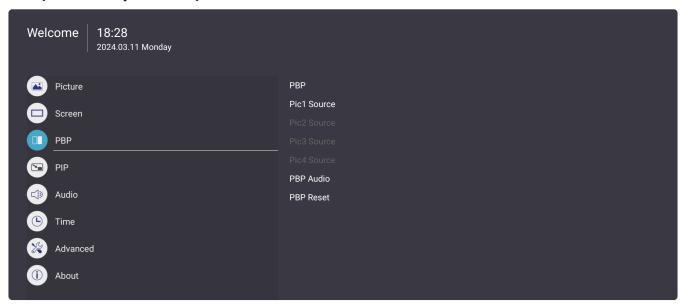
Screen



- 1. Press the MENU (*) button on the remote control to display the OSD Menu.
- **2.** Then press **OK** or use \sqrt{A}/\sqrt{A} on the remote control to select the **Screen** menu.
- 3. Press ▼/▲ to select the menu option. Then press OK to display its sub-menu, or press ◀/▶ to adjust/select the setting.

Sub-menu	Description
Zoom Mode	Set the on-screen image's width and height.
Screen Reset	Reset the Screen settings to their default values.

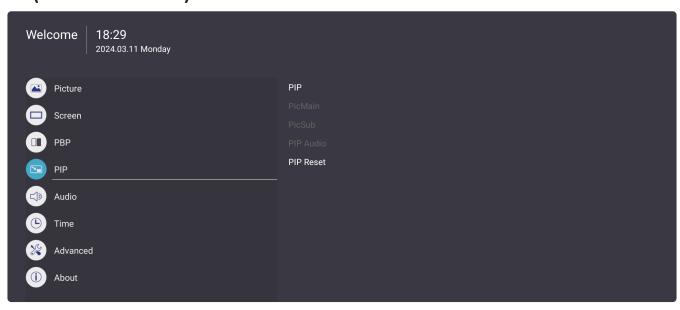
PBP (Picture-by-Picture)



- **1.** Press the **MENU** (🔅) button on the remote control to display the OSD Menu.
- **2.** Then press **OK** or use $\nabla/\Delta/\sqrt{}$ on the remote control to select the **PBP** menu.
- 3. Press ▼/▲ to select the menu option. Then press OK to display its sub-menu, or press ◀/▶ to adjust/select the setting.

Sub-menu	Description	
PBP Mode	Select the type of PBP screen: Full, Dual, Three-part, Center, or Quad.	
PBP Source	Set the video source for the PBP.	
PBP Audio	Set the audio source for the PBP.	
PBP Reset	Reset the PBP settings to their default values.	

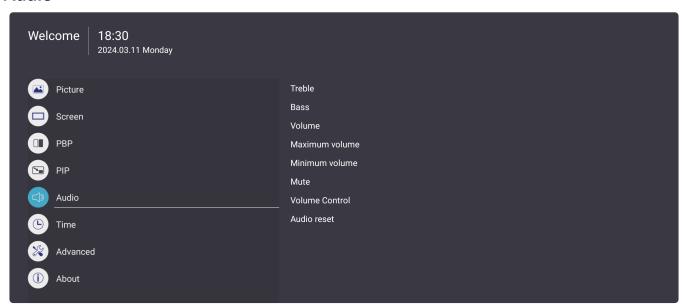
PIP (Picture-in-Picture)



- **1.** Press the **MENU** (🔅) button on the remote control to display the OSD Menu.
- **2.** Then press **OK** or use $\nabla/\triangle/\blacktriangleleft/\triangleright$ on the remote control to select the **PIP** menu.
- 3. Press ▼/▲ to select the menu option. Then press OK to display its sub-menu, or press ◀/▶ to adjust/select the setting.

Sub-menu	Description
PIP Mode	Select the location of the PIP screen: Top Left, Top Right, Bottom Left, Bottom Right.
PicMain	Set the video input source of the main screen.
PicSub	Set the video input source of the sub-screen.
PIP Audio	Set the audio source for the PIP.
PIP Reset	Reset the PIP settings to their default values.

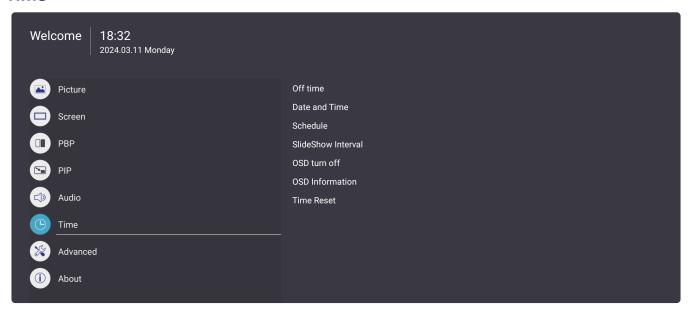
Audio



- 1. Press the MENU (③) button on the remote control to display the OSD Menu.
- 2. Then press OK or use ▼/▲/◀/▶ on the remote control to select the Audio menu.
- 3. Press ▼/▲ to select the menu option. Then press OK to display its sub-menu, or press ◀/▶ to adjust/select the setting.

Sub-menu	Description	
Treble	Adjust the display's treble level (higher-pitched sounds).	
Bass	Adjust the display's bass level (lower-pitched sounds).	
Volume	Adjust the display's sound level.	
Maximum Volume	Set a maximum sound level.	
Minimum Volume	Set a minimum sound level.	
Mute	Turn off the display's sound.	
Volume Control	Select the audio source: the display's Speaker, SPDIF port, or Audio Out port.	
Audio Reset	Reset the Audio settings to their default values.	

Time



- 1. Press the MENU (*) button on the remote control to display the OSD Menu.
- **2.** Then press **OK** or use $\nabla/\triangle/\blacktriangleleft/\triangleright$ on the remote control to select the **Time** menu.
- 3. Press ▼/▲ to select the menu option. Then press OK to display its sub-menu, or press ◀/▶ to adjust/select the setting.

Sub-menu	Description
Off Time	Set a time for the display to turn off.
Date and Time	Set the date and time of the display.
Schedule	Set a schedule to turn the display on and off.
Slideshow Interval	Set the time interval to change between images for a photo slide show.
OSD Turn Off	Set the length of time the OSD Menu remains on screen.
OSD Information	Set the length of time the volume, brightness, and input source menu remain on screen.
Time Reset	Reset the Time settings to their default values.

Advanced

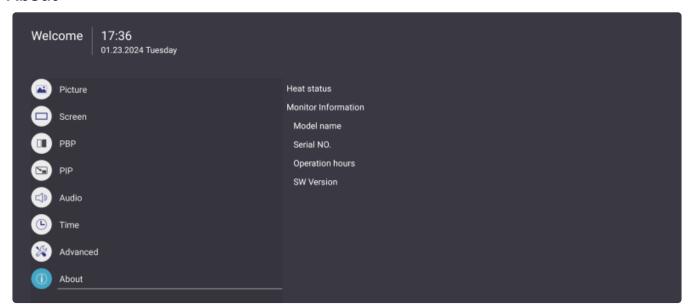


- 1. Press the MENU (③) button on the remote control to display the OSD Menu.
- **2.** Then press **OK** or use $\nabla/\triangle/\blacktriangleleft/\triangleright$ on the remote control to select the **Advanced** menu.
- 3. Press ▼/▲ to select the menu option. Then press OK to display its sub-menu, or press ◀/▶ to adjust/select the setting.

Sub-menu	Description
Saving	Panel Saving Reduces the risk of image burn-in when enabled. Power Save Reduce power consumption.
Boot	Boot On Source Select the input source to enter automatically after the display is turned on. Boot On Logo Show or hide a logo when the display is turned on.

Sub-menu	Description
Signal	Auto Signal Detection Allow the display to detect and display available input sources automatically.
	No Signal Standby Set the time period for the display to enter standby mode when there is no input signal.
Port	HDMI with One Wire Enable or disable CEC (Consumer Electronics Control).
	CEC synchronizes power on/off operation via HDMI connection. That is, if a device that also supports CEC is connected to the HDMI input of the display, when the display's power is turned off, the power of the connected device will also be turned off automatically. When the power of the connected device is turned on, the display's power will be turned on automatically.
	USB Cloning Save the OSD Menu configuration to a USB storage device.
	HDMI Version Select the HDMI version.
	USB Auto Play If enabled, the display will copy media files from a connected external USB storage device to the display's internal storage then play the media files automatically.
	NOTE: If power is lost during the file transfer, please remove the files from the internal storage and try again.
Other	Switch On State Select the display status for the next time the power cord is connected to a power outlet: Power Off, the display will remain off, Last Status, the display will return to the previous power status, or Forced On, the display will turn on.
	Language Set the language for the OSD Menu.
	Factory Reset Reset all OSD Menu settings to their default values.
	Advanced Reset Reset the Advanced settings to their default values.

About



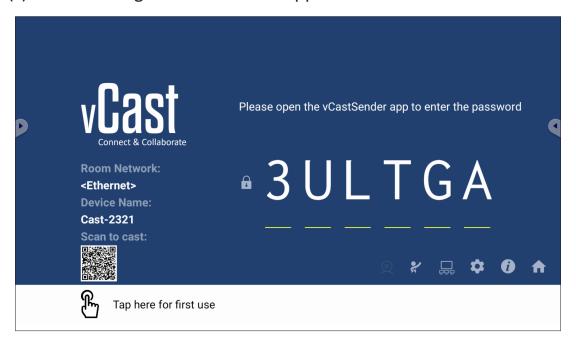
- 1. Press the MENU (③) button on the remote control to display the OSD Menu.
- **2.** Then press **OK** or use $\nabla/\triangle/\blacktriangleleft/\triangleright$ on the remote control to select the **About** menu.
- 3. Press ▼/▲ to select the menu option. Then press OK to display its sub-menu, or press ◀/▶ to adjust/select the setting.

Sub-menu	Description
Heat Status	View the maximum temperature of the display.
Monitor	View information about the display such as: Model Name, Serial
Information	Number, Operation Hours, and Software Version.

Pre-installed Applications

vCast

Working with ViewBoard® Cast software (vCast, vCast Pro, and vCastSender), the vCast application will allow the display to receive laptop screens (Windows/Mac/Chrome) and mobile (iOS/Android) users' screens, photos, videos, annotations, and camera(s) that are using the vCastSender application.



Network Information

- ViewBoard® Cast software, laptops, and mobile devices can connect to both the same subnet and cross subnet by entering the on-screen PIN code.
- Connected devices will show up under **Device List** on the same subnet connection.
- If the device does not show up under **Device List**, users will need to key-in the on-screen PIN code.

• Ports:

- » TCP 56789, 25123, 8121 & 8000 (Controlling message port & client device audio transfer)
- » TCP 8600 (BYOM)
- » TCP 53000 (Request share screen)
- » TCP 52020 (Reverse control)
- » TCP 52025 (Reverse control for ViewBoard Cast Button)
- » TCP 52030 (Status sync)
- » TCP 52040 (Moderator mode)
- » UDP 48689, 25123 (Device searching and broadcast & client device audio transfer)
- » UDP 5353 (Multicast search device protocol)

Port and DNS for Activation:

» Port: 443

» DNS: https://vcastactivate.viewsonic.com

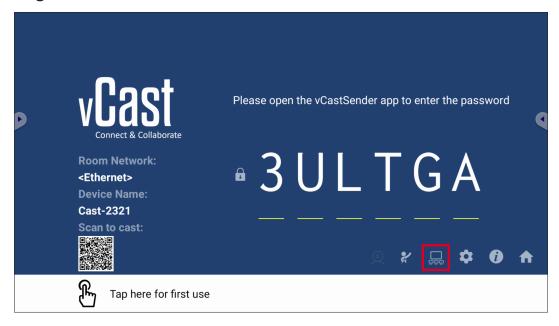
• OTA Service

» Server Port: TCP 443

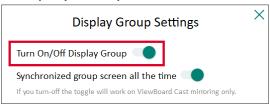
» Server FQDN Name: https://vcastupdate.viewsonic.com

Display Group Settings

To adjust the Display Group Settings, select the Display Group icon $(\Box \Box)$ located in the lower-right corner of the screen.

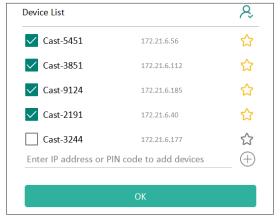


1. Toggle the "Turn On/Off Display Group" ON to enable the Display Group feature.



NOTE: Other preinstalled ViewBoard Cast devices in the same network will be listed.

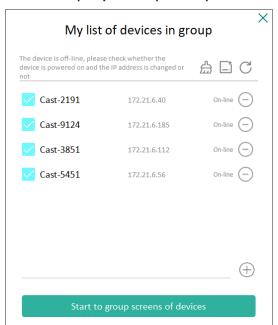
2. Select the devices you want to join the display group and select **OK** to save the settings.



NOTE:

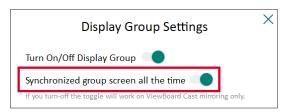
- If the devices you want to group are not listed, you can enter their respective IP address or connecting PIN code.
- The Display Group maximum device limit is six devices.

3. If you frequently connect to the same device, you can select the Star icon () next to the device to add it to your frequently connected devices list, "My List of Devices in Group", for easier Display Group setup and management.



Synchronized Group Screen All the Time

When the "Synchronized group screen all the time" function is toggled ON, it will display a synchronized group screen continuously. If it is toggled OFF, it will work on vCast mirroring only.



NOTE: Select the devices to group first, then toggle the "Synchronized group screen all the time" function ON to avoid interruption.

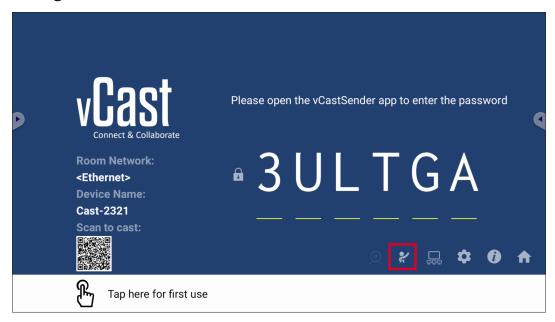
Share a Screen to the Display Group (One to Many Casting)

After confirming the above settings, you can share your screen to the main display, then the grouped client devices will be synced up to your screen.



Moderator Mode

Moderator Mode allows the moderator to take control of the devices connected to the display. To enter Moderator Mode, select the Moderator Mode icon (*) located in the lower-right corner of the screen.

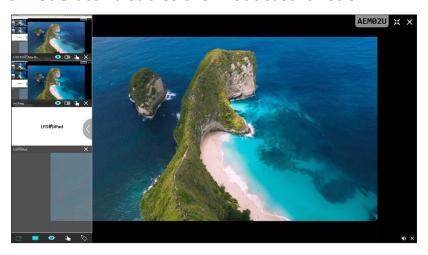


When enabled, the moderator can view a list of all connected screens in the left floating window and can preview each participant's screen and then select any of participant's screen and cast to the display's main screen for presentation. The moderator can also control each participant's screen, annotate on the display, and remove unwanted participants by selecting the close icon (X).



<u></u> Broadcast

When enabled, the display's screen will be broadcasted to all of the participant's connected screens simultaneously. The participants can only view the presentation contents until the moderator disables the Broadcast function.



Multiple Screen Sharing

By default, vCast is set to allow multiple screen sharing, but can also be set to single screen sharing. To do this, the moderator can select the Multiple Screen Sharing icon to switch to single screen sharing.

Preview Screen

By default, vCast is set to let the moderator preview the participant's screen contents prior to sharing to the display. Selecting the Preview Screen icon, the Moderator can switch to see the participant's name only.



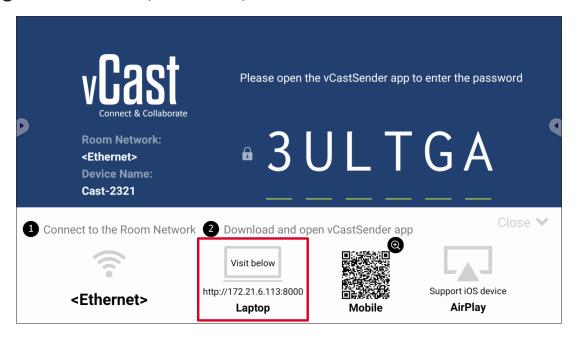
Touch

By default, participants can use touch for collaboration after connecting. The moderator can enable/disable the touch function of a participant by selecting the Touch icon in their window.

NOTE:

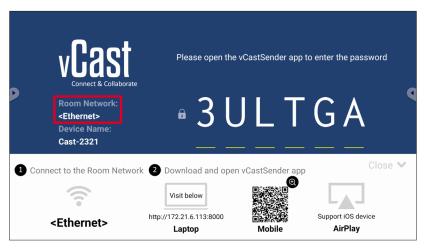
- Moderator Mode is supported on all vCastSender and AirPlay devices, but mobile devices are limited to a "preview" function. Additionally, mobile Android devices cannot cast sound out.
- When you cast your Windows/Mac/Chrome screen to the display, the selected full screen unit will not be broadcasted back to your device to avoid repetitive screen casting.
- The active presenter can touch each of the participant's screens to remotely control casting devices.
- The number of multi-screen presenters on-screen depends on your Windows CPU processor performance and router specifications.

Casting from Windows, MacBook, and Chrome Devices



1. Ensure the client device (e.g., laptop) is connected to the same network as the display.

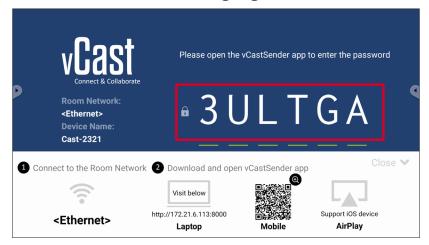
NOTE: The network name can be found under **Room Network**.



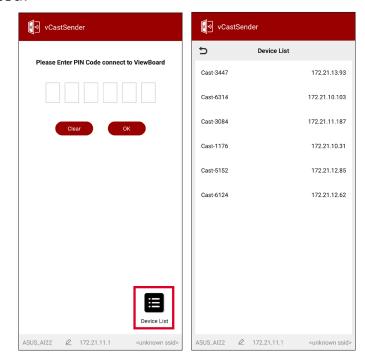
- **2.** On the client device, visit the address that is shown on the display to download and install the vCastSender application.
- **3.** After installing, launch the vCastSender application.

4. To connect to the display, input the PIN code and click OK.

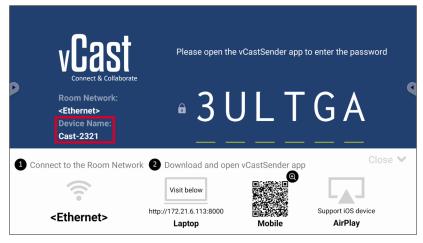
NOTE: The PIN code can be found as highlighted below:



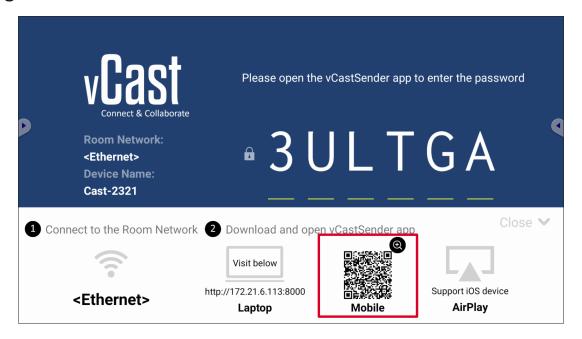
5. Additionally, you can connect to the display by clicking **Device List** then the **Device Name** listed.



NOTE: The **Device Name** can be found as highlighted below:

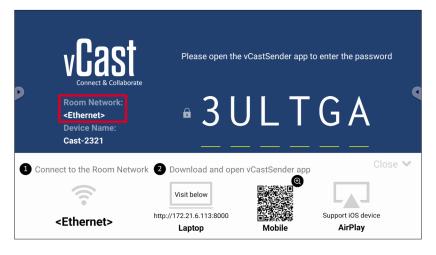


Casting from Android Devices



1. Ensure the client device (e.g., Android phone or tablet) is connected to the same network as the display.

NOTE: The network name can be found under **Room Network**.

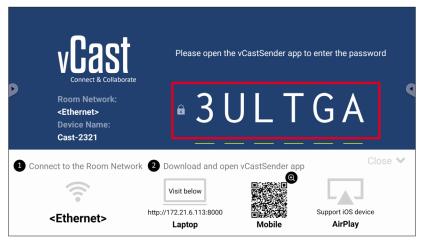


2. On the Android client device, scan the QR code shown on the display to directly download the vCastSender application, or download the application from the Google Play Store.

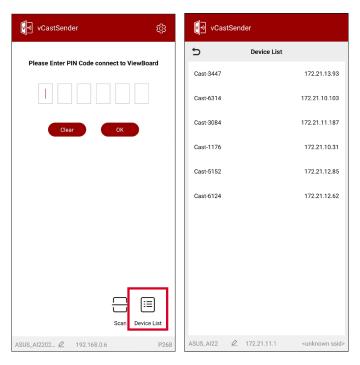


- **3.** After installing, launch the vCastSender application.
- 4. To connect to the display, input the PIN code and select OK.

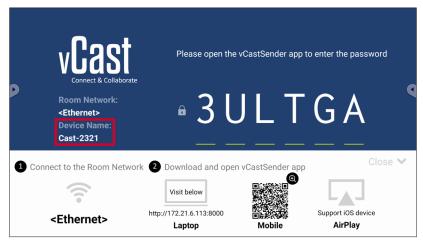
NOTE: The **PIN code** can be found as highlighted below:



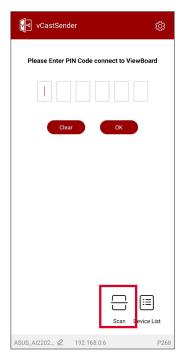
5. You can also connect to the display by selecting **Device List** then the **Device Name** listed.

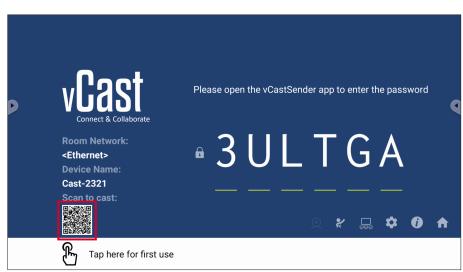


NOTE: The **Device Name** can be found as highlighted below:



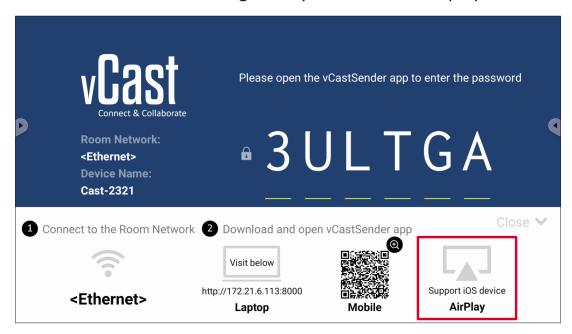
6. Additionally, you can connect to the display by selecting **Scan** then placing the on-screen QR code into the box to automatically connect.





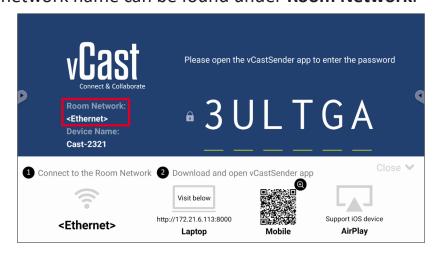
Casting from Apple iOS Devices

Apple AirPlay® is compatible with vCast for screen mirroring and content streaming under the same subnet environment only. An "AirPlay Password" will be generated on-screen for connection when using AirPlay to cast to the display.



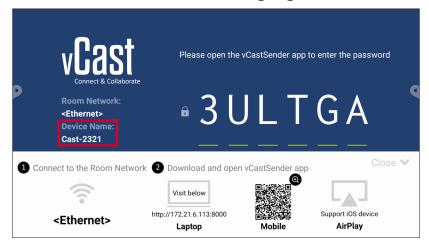
1. Ensure the client device (e.g., iPhone or iPad) is connected to the same network as the display.

NOTE: The network name can be found under **Room Network**.

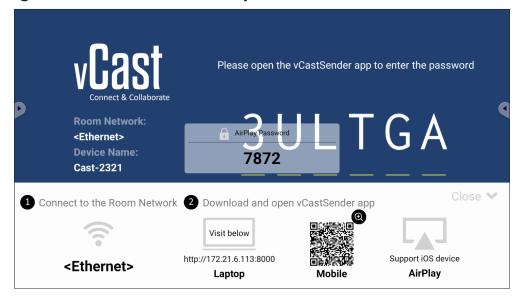


2. On the iOS client device, directly open AirPlay and select the **Device Name** of the display to connect.

NOTE: The Device Name can be found as highlighted below:

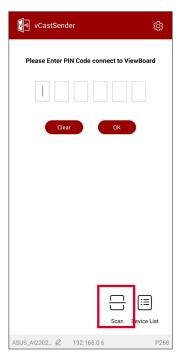


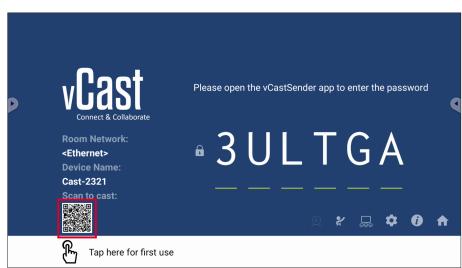
3. Input the generated on-screen AirPlay Password on the client device to connect.



NOTE: In a cross subnet environment, please download and connect with the vCastSender iOS application from the Apple App Store.

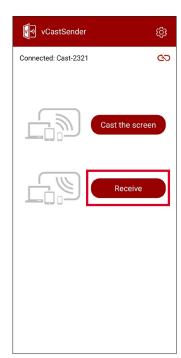
4. You can also connect to the display by selecting **Scan** then placing the on-screen QR code into the box to automatically connect.





Connecting to a ViewBoard from a Mobile Device

Once connected, select **Receive**. The display's screen will appear on the mobile device with an on-screen toolbar. Users can interact with the display with annotations, file sharing, etc.



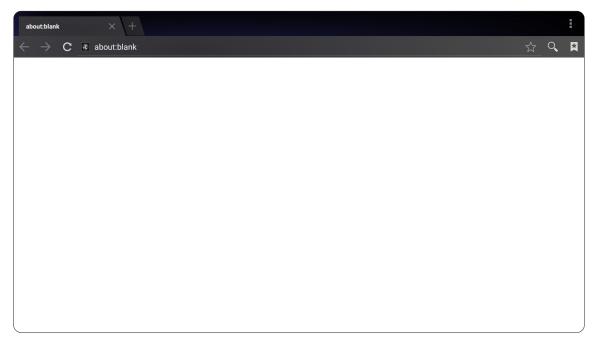


	Item	Description
>	Toggle	Hide or display the toolbar.
	Home	Return to the Home interface.
\leftarrow	Return	Return to the previous operation.
	Folder	View or open the mobile device's files.
	Share	Cast the mobile device's screen to the connected display.
	Touch Remotely control the connected display.	
\Diamond	Annotate Make annotations, and adjust the pen color.	
	Clear	Clear everything on screen.
Ô	Camera	Send camera images to the connected display.

Other Default Applications

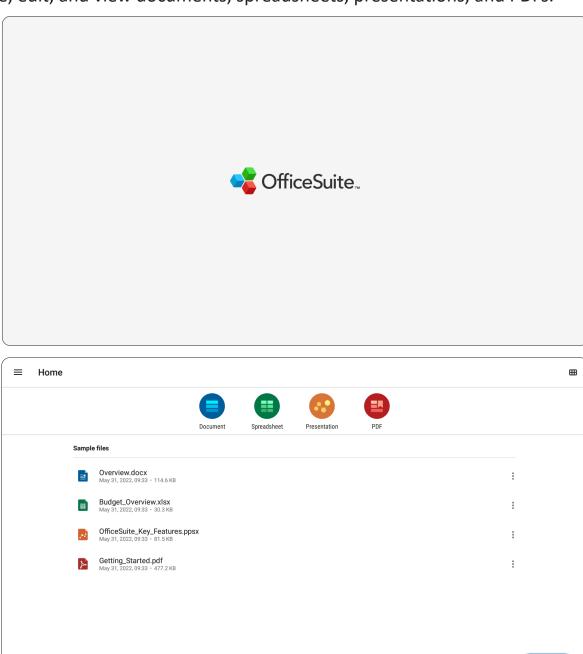
Browser

Web browser for surfing the Internet.



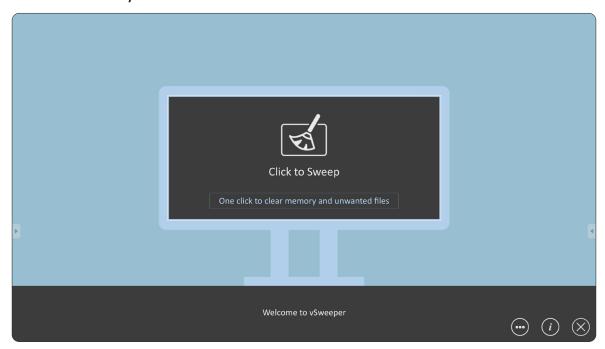
OfficeSuite

Create, edit, and view documents, spreadsheets, presentations, and PDFs.

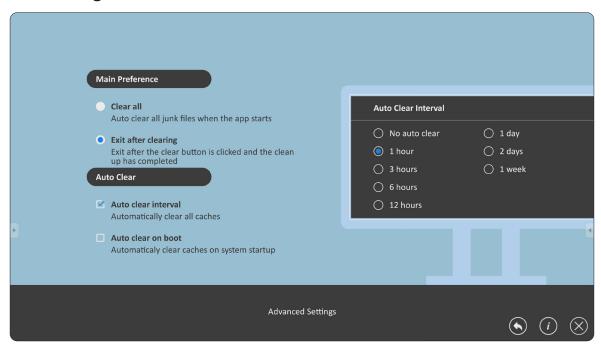


vSweeper

Remove unnecessary data and unwanted files.



Advanced Settings can also be customized to the user's needs.



Appendix

Specifications

Item	Category	Specifications		
Model		LDM163-181		
	Туре	Direct View LED Display		
	Size	163"		
	Active Size	3,600 mm x 2,025 mm		
	(H x V)	141.73" x 79.72"		
LED Compan	Pitch Size	1.87 mm		
LED Screen	Resolution	FHD, 1920 x 1080		
	Refresh Frequency	3840 Hz		
	Contrast Ratio	6500:1 (Typical)		
	Brightness	100-600 cd/m2 (100 levels of adjustment)		
	LED Lifespan	100,000 hours		
		4 x HDMI (v. 2.0; HDCP 2.2)		
		1 x USB Type A (2.0)		
		1 x USB Type A (3.0)		
		1 x LAN (RJ45)		
Input Signal		1 x IR in		
		1 x USB Type C (data only)		
		1 x RS-232 (for control)		
		1 x RJ45 (for LAN control)		
		1 x Wi-Fi Input (2.4 G/5 G Hz)		
		1 x HDMI Out		
Output Signal		Audio Out (1 x 3.5 mm internal; 1 x 3.5		
Output Signal		mm external)		
		1 x USB Type A (Shared) [5V/2A]		
Speaker Output		2 x 30W		
RS-232		RS-232 Serial Control		
		100-120V/30A ~ 50/60Hz		
Power	Voltage	220-240V/15A ~ 50Hz		
		(will vary by country)		
	Altitude	≤ 5,000 m		
		≤ 16,404 ft		
Operating Conditions	Relative Humidity	10%~80% non-condensing		
	Temporaturo	0° C to 40° C		
	Temperature	32° F to 104° F		

ltem	Category	Specifications		
	Altitudo	≤ 5,000 m		
	Altitude	≤ 16,404 ft		
Storage Conditions	Relative Humidity	10%~85% non-condensing		
	Tomporatura	-10° C to 60° C		
	Temperature	14° F to 140° F		
	Without Wall Mount	3,612 x 2,171 x 31 mm		
	Without Wall Mount	142.20" x 85.47" x 1.22"		
D	\\/i+b\\/all\\/aun+	3,612 x 2,171 x 53 mm		
Physical Dimensions	With Wall Mount	142.20" x 85.47" x 2.08"		
(W x H x D)	With Back Mount	3,612 x 2,171 x 91 mm		
(VV X II X D)		142.20" x 85.47" x 3.58"		
	VACALA Tradition	3,612 x 2,845.3 x 872.8 mm		
	With Trolley	142.20" x 112.02" x 34.33"		
	\\/:thet\\/all\\/aet	227 kg		
	Without Wall Mount	456.35 lbs		
	\\\';+ -\\\\ - -\\\\\\\\\\\\\\\\\\\\\\\\\\	251 kg		
\\/a:~ a+	With Wall Mount	509.26 lbs		
Weight	Mith Deal Manust	272 kg		
	With Back Mount	555.56 lbs		
		239 kg		
	With Trolley	526.90 lbs		
Davis	0.5	918W (Normal)		
Power	On	2624W (Max)		
Consumption	Off	< 0.5W		

NOTE: Product specifications are subject to change without notice.

Timing Chart HDMI (PC)

Resolution	Refresh Rate
640 x 480	60 Hz
800 x 600	60 Hz
1024 x 768	60 Hz
1280 x 768	60 Hz
1280 x 800	60 Hz
1280 x 960	60 Hz
1280 x 1024	60 Hz
1360 x 768	60 Hz
1366 x 768	60 Hz
1400 x 1050	60 Hz
1440 x 900	60 Hz
1600 x 1200	60 Hz
1680 x 1050	60 Hz
1920 x 1080	60 Hz

HDMI (Video)

Video	Resolution	Refresh Rate
480p	640 x 480	60 Hz
576p	720 x 576	50 Hz
800 x 600	800 x 600	60 Hz
1024 x 768	1024 x 768	60 Hz
720p	1280 x 720	50, 60 Hz
1080p	1920 x 1080	24, 25, 30, 50, 60 Hz
2560 x 1080	2560 x 1080	60 Hz
3440 x 1440	3440 x 1440	60 Hz
2160p	3840 x 2160	24, 25, 30, 50, 60 Hz

NOTE:

- The computer text quality is optimal in HD 1080 mode (1920 x 1080, 60 Hz).
- Your computer display screen might appear different depending on the manufacturer and your operating system.
- Consult your computer's instructional manual on how to connect to an external display.
- If a vertical and horizontal frequency-select mode exists, select 60 Hz (vertical) and 67.5 kHz (horizontal). In some cases, abnormal signals (such as stripes) might appear on the screen when the computer power is turned off (or if the computer is disconnected). If this is the case, press the [INPUT SOURCE] button to enter the video mode and supply an active signal.
- The display timings conform to VESA and CTA standards.
- For 4:3 content, the screen will display them in the center of the screen and maintain a 4:3 aspect ratio.
- The optimal vertical frequency for each mode is 60Hz.
- **HDMI 3** does not support YUV420.

Supported Media Formats

Туре	File Type	Codec	Ability		
	.jpeg	JFIF file format 1.02	Max Resolution: 8176 x 8176 Min Resolution: 48 x 48		
	.jpg	JFIF file format 1.02	Max Resolution: 8176 x 8176 Min Resolution: 48 x 48		
Photo	.bmp	ВМР	Max Resolution: 8176 x 8176 Min Resolution: 48 x 49		
	.gif	GIF	Max Resolution: 8176 x 8176 Min Resolution: 48 x 50		
	.png	PNG	Max Resolution: 8176 x 8176 Min Resolution: 48 x 51		
	.mp1/2/3	MPEG 1/2 Layer 1/2/3	Bit rate: 8 kbps~320 kbps, CBR and VBR Sampling rate: 8 kHz~48 kHz		
	.wma	WMA version 4, 4.1, 7, 8, 9, wmapro	Bit rate: 8 kbps~320 kbps Sampling rate: 8 kHz~48 kHz Non-support WMA Pro, lossless and MBR		
Audio	.wav	MS-ADPCM, IMA- ADPCM, PCM	Sampling rate: 8 kHz~48 kHz Support 4 bit MS-ADPCM, IMA-ADPCM		
	.flac	Compress Level 0~8	Sampling rate: 8 kHz~48 kHz		
	.aac\.m4a	ADIF ,ATDS Header AAC-LC and AAC-HE, AAC-ELD	Sampling rate: 8 kHz~48 kHz		
	.oog\.oga	Q1~ Q10	Sampling rate: 8 kHz~48 kHz		
		MPEG4	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: MS MPEG4 v1, v2, v3 Not supported: GMC		
Video	.3gp	/ideo .3gp	H.263	Supported Image Size: SQCIF (128 x 96), QCIF (176 x 144), CIF (352 x 288), 4CIF (704 x 576) Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: H.263+	
	H.264		Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF		

Туре	File Type	Codec	Ability	
	.asf	VC-1	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 45 Mbps	
	.dat	MPEG4	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: MS MPEG4 v1, v2, v3 Not supported: GMC	
		H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF	
Video			VC-1	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 45 Mbps
		MJPEG	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps	
		MPEG-1/2	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 80 Mbps Supported: Field Coding	
		H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF	

Туре	File Type	Codec	Ability	
	.mkv	MPEG4	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: MS MPEG4 v1, v2, v3 Not supported: GMC	
		H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF	
Video		H.264 MVC	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 50 Mbps Supported: Stereo High Profile only	
Video			H.265/HEVC	Supported Image Size: 64 x 64 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Main Profile & Main10 Profile Supported: Tile & SLIC
		VC-1	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate :30 fps Maximum Bit Rate: 45 Mbps	
		VP8	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps	
		VP9	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 60fps Maximum Bit Rate: 100 Mbps	

Туре	File Type	Codec	Ability		
				MPEG4	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: MS MPEG4 v1, v2, v3 Not supported: GMC
	.mov	H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF		
	.mp4	H.265/HEVC	Supported Image Size: 64 x 64 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Main Profile & Main10 Profile Supported: Tile & SLIC		
Video		H.263	Supported Image Size: SQCIF (128 x 96), QCIF (176 x 144), CIF (352 x 288), 4CIF (704 x 576) Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: H.263+		
		MPEG4	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: MS MPEG4 v1, v2, v3 Not supported: GMC		
	.mp5	H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF		
	.mp6	H.265/HEVC	Supported Image Size: 64 x 64 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Main Profile & Main10 Profile Supported: Tile & SLIC		

Туре	File Type	Codec	Ability	
	.mp7	H.263	Supported Image Size: SQCIF (128 x 96), QCIF(176 x 144), CIF (352 x 288), 4CIF (704 x 576) Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: H.263+	
	.mpg	MPEG-1/2	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 80 Mbps Supported: Field Coding	
		MPEG-1/2	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 80 Mbps Supported: Field Coding	
Video	.ts	H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF	
		.ts	H.264 MVC	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 50 Mbps Supported: Stereo High Profile only
		H.265/HEVC	Supported Image Size: 64 x 64 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Main Profile & Main10 Profile Supported: Tile & SLIC	
		VC-1	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 45 Mbps	
	.vob	MPEG-1/2	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 80 Mbps Supported: Field Coding	

Туре	File Type	Codec	Ability		
	ahaa	VP8	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps		
Video	.webm	VP9	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 60 fps Maximum Bit Rate: 100 Mbps		
	.wmv VC-1		Supported Image Size: 48 x 48 pixels to 192 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 45 Mbps		

LED Display Stuck Pixel Definition

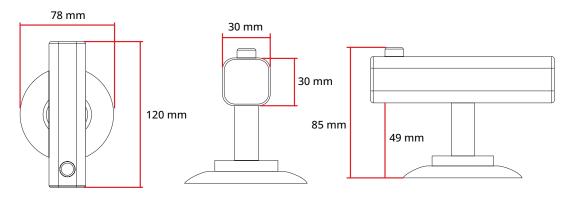
		·		

Item	Acceptance Criteria
Stuck Pixel (whole display)	≤ 60 stuck pixels
Stuck Pixel (as marked in green)	≤ 15 stuck pixels
Stuck Pixel (Single Module)	≤ 6 stuck pixels

Maintenance Tools

LED Module Removal Tool

Dimensions



Specifications

Item	Description			
Model	LD-MK-006			
Draduct Dimension	120 x 87 x 80 mm			
Product Dimension	4.72" x 3.43"x 3.15"			
Weight	0.2 kg			
	0.44 lb			

Troubleshooting

General

Problem or Issue	Possible Solutions
	 Check whether something is obstructing the display's remote control receiver.
Remote Control is not working	2. Check whether the battery polarities in the remote control are installed correctly.
	3. Check whether the batteries need to be replaced.
	1. Check whether Sleep mode is enabled.
	2. Check if there is a power outage in your area.
The unit turns off unexpectedly	3. Turn on the display, provide an active signal, and see if the problem is with the signal or external control system.
	4. Check whether the Ethernet cables inside the cabinets are connected properly.
The power indicator	1. Ensure the power cable is connected and not loose.
is off, and there is no response	2. Check that the power outlet is functioning properly and meets the required electrical requirement.
The display does not	1. Ensure the drive is either formatted for FAT32 or NTFS.
recognize the USB storage device	2. If the USB storage device needs external power, connect its power adapter to an electrical outlet.

Video Not Working Properly

Problem or Issue	Possible Solutions
	1. Check the Power status.
No picture/No sound	2. Check the signal cable.
Two picture, two souriu	3. Use the remote control to ensure the input source setting is the same as the connected device.
	1. Check the signal cable.
Picture is unclear or cuts in and out	2. Check if other electronics or different signal types are interrupting the signal.
caes in ana cae	3. An optional active video cable or optional video extender is required for a long distance source.
	 Adjust chroma and/or brightness settings in the menu.
Poor picture	2. Check the signal cable.
	3. Use the display's native resolution for the source.

Audio Not Working Properly

Problem or Issue	Possible Solutions
	1. Press the Mute/Unmute button.
	2. Adjust the volume.
No sound	3. Check the audio cable connection (if used).
THO SOUTH	4. If using a computer digital video with embedded audio, ensure the computer speakers are set to external speakers.
	1. Adjust the sound balance in the menu.
One speaker only	2. Check the left and right sound control panel settings of the computer or media player source.
One speaker only	3. Check the audio cable connection (if used).
	4. Ensure the content has two audio channels and not mono.

Maintenance

General Precautions

- The LED lights used in the modules are susceptible to ESD (Electrostatic discharge). To prevent damage to the LED lights, do not touch them with bare hands or with conductive materials when handling.
- Wear anti-static gloves and wrist strap when installing and servicing the display.
- It is recommended to regularly inspect all installed components.
- Do not bring objects close to the ventilation holes of the display. Burns or personal injuries may occur if any body parts are brought too close.
- Be sure to power off and disconnect all cables before moving the display. Moving the display with its cables attached may damage the cables and thus cause fire or electric shock.
- Power off and disconnect the power plug from the wall outlet as a safety precaution before performing any type of cleaning or maintenance.

Initial Operation

- If a new screen has been stowed for less than three months, it can be used at normal brightness during its first use.
- If a new screen has been stowed for more than three months, the brightness should be set at 30% for its first use and allowed to operate for two hours continuously. After two hours of use, power off for 30 minutes. The new screen is now ready for normal brightness usage.

Front Panel Cleaning Instructions

- Use cool, compressed air to remove dust when the power is off. If the dust cannot be removed, the LED module should be replaced.
- Do not scratch and do not put pressure on the panel surface with fingers or any abrasive object.
- Do not use volatile substances such as sprays, solvents, or thinners.

Cabinet Cleaning Instructions

- Do not allow water or detergent to come into contact with the surface of the display. If water or moisture gets inside the unit, a system malfunction or electrical shock may occur.
- Do not scratch and do not put pressure on the cabinet with any abrasive objects of any kind.
- Do not use volatile substances such as sprays, solvents, or thinners on the cabinet.
- Do not place anything made from rubber or PVC near the cabinet for any extended periods of time.

Regular Use

- It is recommended to turn on the display at least once a month for more than eight hours. During a wet and rainy season, it is recommended to turn on the display at least once a week.
- Avoid using full white, full red, full blue, or full green content for an extended period to avoid excessive power usage thus affecting the LED lifespan.

RS-232 Protocol

This document describes the hardware interface and software protocols of RS-232 interface communication between the ViewSonic LED Display and computers or other control units with RS-232 protocol.

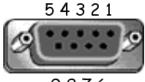
Description

RS-232 Hardware Specification

ViewSonic RS-232 serial port on the lower left side:

- 1. Connector type: DB 9-Pin Female.
- 2. Use of straight-through parallel cable for connection
- 3. Pin Assignment:

Female DB 9-Pin



9876

Pin #	Signal	Remark
1	NC	
2	RXD	Input to Display
3	TXD	Output from Display
4	NC	
5	GND	GND
6	NC	
7	NC	
8	NC	
9	NC	
frame	GND	

RS-232 Communication Setting

• Baud Rate Select: 115200bps (fixed)

Data bits: 8 bits (fixed)Parity: None (fixed)

• Stop Bits: 1 (fixed)

NOTE: Make sure the Control Board Switch is switched to the left for RS-232 control.

Command Table

Set Function	Command	Description	Command	HEX	Data Range
Power on	s!21	000: STBY	801s!000	38 30 31 73 21 30 30 30 0D	
/off(standby)	5!21	001: ON	801s!001	38 30 31 73 21 30 30 31 0D	
		00A:HOME	801s"00A	38 30 31 73 22 30 30 33 0D	
		004: HDMI1	801s"004	38 30 31 73 22 30 30 34 0D	
Input Select	s"22	014: HDMI2	801s"014	38 30 31 73 22 30 31 34 0D	
		024: HDMI3	801s"024	38 30 31 73 22 30 32 34 0D	
		034: HDMI4	801s"034	38 30 31 73 22 30 33 34 0D	
		000 ~ 100	801s\$XXX (XXX:000-100)	38 30 31 73 24 3X 3X 3X 0D	000-100
Brightness	s\$24	900: Bright down (-1)	801s\$900	38 30 31 73 24 39 30 30 0D	
		901: Bright up (+1)	801s\$901	38 30 31 73 24 39 30 31 0D	
	s434	000: Unlock	801s4000	38 30 31 73 34 30 30 30 0D	
Power lock		001: Lock	801s4001	38 30 31 73 34 30 30 31 0D	
		000 ~ 100	801s5XXX (XXX:000-100)	38 30 31 73 35 3X 3X 3X 0D	000-100
Volume	s535	900: Volume down(-1)	801s5900	38 30 31 73 35 39 30 30 0D	
		901:Volume up(+1)	801s5901	38 30 31 73 35 39 30 31 0D	
		000: OFF	801s6000	38 30 31 73 36 30 30 30 0D	
Mute	s636	001: ON (mute)	801s6001	38 30 31 73 36 30 30 31 0D	
		000: Unlock	801s8000	38 30 31 73 38 30 30 30 0D	
Button lock	s838	001: Lock	801s8001	38 30 31 73 38 30 30 31 0D	
Menu lock		000: Unlock	801s>000	38 30 31 73 3E 30 30 30 0D	
	s>3E	001: Lock	801s>001	38 30 31 73 3E 30 30 31 0D	

Set Function	Command	Description	Command	HEX	Data Range
		000: UP	801sA000	38 30 31 73 41 30 30 30 0D	
		001: DOWN	801sA001	38 30 31 73 41 30 30 31 0D	
		002: LEFT	801sA002	38 30 31 73 41 30 30 32 0D	
		003: RIGHT	801sA003	38 30 31 73 41 30 30 33 0D	
		004: ENTER	801sA004	38 30 31 73 41 30 30 34 0D	
		005: INPUT	801sA005	38 30 31 73 41 30 30 35 0D	
		006: MENU/ (EXIT)	801sA006	38 30 31 73 41 30 30 36 0D	
		007: EXIT	801sA007	38 30 31 73 41 30 30 37 0D	
		008:power on/ off	801sA008	38 30 31 73 41 30 30 38 0D	
Key Pad	sA41	009:input list	801sA009	38 30 31 73 41 30 30 39 0D	
		010:brightness	801sA010	38 30 31 73 41 30 31 30 0D	
		011:blank	801sA011	38 30 31 73 41 30 31 31 0D	
		012:home	801sA012	38 30 31 73 41 30 31 32 0D	
		013:volume+	801sA013	38 30 31 73 41 30 31 33 0D	
		014:volume-	801sA014	38 30 31 73 41 30 31 34 0D	
		015:next	801sA015	38 30 31 73 41 30 31 35 0D	
		016:previous	801sA016	38 30 31 73 41 30 31 36 0D	
		017:mute	801sA017	38 30 31 73 41 30 31 37 0D	
		018:play	801sA018	38 30 31 73 41 30 31 38 0D	
Remote Control	cB/12	000: Disable	801sB000	38 30 31 73 42 30 30 30 0D	
Remote Control	sB42	001: Enable	801sB001	38 30 31 73 42 30 30 31 0D	
Restore default	s~7E	000	801s~000	38 30 31 73 7E 30 30 30 0D	
Input Select: Cycle	s"22	00Z	801s"00Z	38 30 31 73 22 30 30 5A 0D	
Contrast	s#23	000 ~ 100	801s#XXX (XXX:000-100)	38 30 31 73 23 3X 3X 3X 0D	000-100

Set Function	Command	Description	Command	HEX	Data Range
Sharpness	s%25	000 ~ 100	801s%XXX (XXX:000-100)	38 30 31 73 25 3X 3X 3X 0D	000-100
Color	s&26	000 ~ 100	801s&XXX (XXX:000-100)	38 30 31 73 26 3X 3X 3X 0D	000-100
Tint	s'27	000 ~ 100	801s'XXX (XXX:000-100)	38 30 31 73 27 3X 3X 3X 0D	000-100
		000: Normal	801s)000	38 30 31 73 29 30 30 30 0D	
Color mode	6)20	001: Warm	801s)001	38 30 31 73 29 30 30 31 0D	
Color mode	s)29	002: Cold	801s)002	38 30 31 73 29 30 30 32 0D	
		003: Personal	801s)003	38 30 31 73 29 30 30 33 0D	
Freeze	s*2A	000: Off	801s*000	38 30 31 73 2A 30 30 30 0D	
On_Off		001: On	801s*001	38 30 31 73 2A 30 30 31 0D	
Bass	s.2E	000 ~ 024	801s.XXX (XXX:000-024)	38 30 31 73 2E 3X 3X 3X 0D	000-024
Treble	s/2F	000 ~ 024	801s/XXX (XXX:000-024)	38 30 31 73 2F 3X 3X 3X 0D	000-024
		000: FULL (full screen)	801s1000	38 30 31 73 31 30 30 30 0D	
Zoom mode	s131	Dynamic (16:9)	801s1001	38 30 31 73 31 30 30 31 0D	
		002: REAL (1:1)	801s1002	38 30 31 73 31 30 30 32 0D	
		003:21:9	801s1003	38 30 31 73 31 30 30 33 0D	

Set Function	Command	Description	Command	HEX	Data Range
		000: English	801s2000	38 30 31 73 32 30 30 30 0D	
		001: French	801s2001	38 30 31 73 32 30 30 31 0D	
		002: Spanish	801s2002	38 30 31 73 32 30 30 32 0D	
		003:German	801s2003	38 30 31 73 32 30 30 33 0D	
OSD language	s232	004: Russian	801s2004	38 30 31 73 32 30 30 34 0D	
O3D laliguage	5232	005:Dutch	801s2005	38 30 31 73 32 30 30 35 0D	
		006: T-Chinese	801s2006	38 30 31 73 32 30 30 36 0D	
		007: S-Chinese	801s2007	38 30 31 73 32 30 30 37 0D	
		008: Turkish	801s2008	38 30 31 73 32 30 30 38 0D	
		009: Arabic	801s2009	38 30 31 73 32 30 30 39 0D	
		000:OFF	801s9000	38 30 31 73 39 30 30 30 0D	
		001:PIP	801s9001	38 30 31 73 39 30 30 31 0D	
		002:PBP	801s9002	38 30 31 73 39 30 30 32 0D	
PBP-Mode	s939	003: Full Screen	801s9003	38 30 31 73 39 30 30 33 0D	
		004: Dual Screen	801s9004	38 30 31 73 39 30 30 34 0D	
		005: Three-part Screen	801s9005	38 30 31 73 39 30 30 35 0D	
		006:Quad Screen	801s9006	38 30 31 73 39 30 30 36 0D	

Set Function	Command	Description	Command	HEX	Data Range
		000: Up	801s;000	38 30 31 73 3B 30 30 30 0D	
		001: Down	801s;001	38 30 31 73 3B 30 30 31 0D	
		002: Left	801s;002	38 30 31 73 3B 30 30 32 0D	
PIP-Mode	s;3B	003: Right	801s;003	38 30 31 73 3B 30 30 33 0D	
r ir -ivioue	3,36	004: Top-Left	801s;004	38 30 31 73 3B 30 30 34 0D	
		005: Top-Right	801s;005	38 30 31 73 3B 30 30 35 0D	
		006: Bottom- Left	801s;006	38 30 31 73 3B 30 30 36 0D	
		007: Bottom- Right	801s;007	38 30 31 73 3B 30 30 37 0D	
		004: HDMI1	801s7004	38 30 31 73 37 30 30 34 0D	
		014: HDMI2	801s7014	38 30 31 73 37 30 31 34 0D	
PIP Input	s737	024: HDMI3	801s7024	38 30 31 73 37 30 32 34 0D	
		034: HDMI4	801s7034	38 30 31 73 37 30 33 34 0D	
		00A:HOME	801s700A	38 30 31 73 37 30 30 41 0D	
		000: Pic1	801s:000	38 30 31 73 3A 30 30 30 0D	
PBP/PIP-Sound	s:3A	001: Pic2	801s:001	38 30 31 73 3A 30 30 31 0D	
select		002: Pic3	801s:002	38 30 31 73 3A 30 30 32 0D	
		003: Pic4	801s:003	38 30 31 73 3A 30 30 33 0D	
Date: Year	sV56	Y17~Y99	801sVYXX (XX:17-99)	38 30 31 73 56 59 3X 3X 0D	17-99
Date: Month	sV56	M01~M12	801sVMXX (XX:01-12)	38 30 31 73 56 4D 3X 3X 0D	
Date: Day	sV56	D01~D31	801sVDXX (XX:01-31)	38 30 31 73 56 44 3X 3X 0D	
Time: Hour	sW57	H00~H23	801sWHXX (XX:00-23)	38 30 31 73 57 48 3X 3X 0D	
Time: Min	sW57	M00~M59	801sWMXX (XX:00-59)	38 30 31 73 57 4D 3X 3X 0D	
Time: Sec	sW57	S00~S59	801sWSXX (XX:00-59)	38 30 31 73 57 53 3X 3X 0D	
Get-Brightness	gb62		801gb000	38 30 31 67 62 30 30 30 0D	

Set Function	Command	Description	Command	HEX	Data Range
Get-Volume	gf66		801gf000	38 30 31 67 66 30 30 30 0D	
Get-Mute	gg67		801gg000	38 30 31 67 67 30 30 30 0D	
Get-Input select	gj6A		801gj000	38 30 31 67 6A 30 30 30 0D	
Get-Power status: ON/ STBY	gl6C		801gl000	38 30 31 67 6C 30 30 30 0D	
Get-Remote control	gn6E		801gn000	38 30 31 67 6E 30 30 30 0D	
Get-Power lock	go6F		801go000	38 30 31 67 6F 30 30 30 0D	
Get-Button lock	gp70		801gp000	38 30 31 67 70 30 30 30 0D	
Get-Menu lock	gq71		801gq000	38 30 31 67 71 30 30 30 0D	
Get-ACK	gz7A		801gz000	38 30 31 67 7A 30 30 30 0D	
Get-Thermal	g030		801g0000	38 30 31 67 30 30 30 30 0D	
Get-Operation hour	g131		801g1000	38 30 31 67 31 30 30 30 0D	
Get-Device name	g434		801g4000	38 30 31 67 34 30 30 30 0D	
Get-MAC address	g535		801g5000	38 30 31 67 35 30 30 30 0D	
Get-IP address	g636		801g6000	38 30 31 67 36 30 30 30 0D	
Get-Serial number	g737		801g7000	38 30 31 67 37 30 30 30 0D	
Get-FW version	g838		801g8000	38 30 31 67 38 30 30 30 0D	
Get-Contrast	ga61		801ga000	38 30 31 67 61 30 30 30 0D	
Get-Sharpness	gc63		801gc000	38 30 31 67 63 30 30 30 0D	
Get-Color	gd64		801gd000	38 30 31 67 64 30 30 30 0D	
Get-Tint	ge65		801ge000	38 30 31 67 65 30 30 30 0D	
Get Freeze	gi69		801gi000	38 30 31 67 69 30 30 30 0D	
Get-PBP mode	gt74		801gt000	38 30 31 67 74 30 30 30 0D	
Get-Date: Year	g232		801g2Y00	38 30 31 67 32 59 30 30 0D	
Get-Date: Month	g232		801g2M00	38 30 31 67 32 4D 30 30 0D	

Set Function	Command	Description	Command	HEX	Data Range
Get-Date: Day	g232		801g2D00	38 30 31 67 32 44 30 30 0D	
Get-Time: Hour	g333		801g3H00	38 30 31 67 33 48 30 30 0D	
Get-Time: Min	g333		801g3M00	38 30 31 67 33 4D 30 30 0D	
Get-Time: Sec	g333		801g3S00	38 30 31 67 33 53 30 30 0D	

Get Operation Time Example

Assumed the accumulated operation time is 00,123,456 hrs.

Send: 38 30 31 67 31 30 30 30 0D (Get Operation time)

00 00 00 0D

Regulatory and Service Information

Compliance Information

This section addresses all connected requirements and statements regarding regulations. Confirmed corresponding applications shall refer to nameplate labels and relevant markings on the unit.

FCC Compliance Statement

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The antenna(s) used for this transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

The device was tested and complies to measurement standards and procedures specified in FCC CFR Tile 47 Part 15 Subpart C.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

IC Warning Statement

This device complies with Industry Canada license- exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, méme si le brouillage est susceptible d'en compromettre le fonctionnement.

Country Code Statement

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis/Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

IC Radiation Exposure Statement

This equipment complied with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. The device for the band 5150-5825 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlê. Cet équipement doit être installé et utilize avec un minimum de 20cm de distance entre la source de rayonnement et votre corps. les dispositifs fonctionnant dans la bande 5150-5825 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

CE Conformity for European Countries



The device complies with the EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU, and Radio Equipment Directive 2014/53/EU.

The following information is only for EU-member states:

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2012/19/EU (WEEE). The mark indicates the requirement NOT to dispose of the equipment as unsorted municipal waste, but use the return and collection systems according to local law.



Declaration of RoHS2 Compliance

This product has been designed and manufactured in compliance with Directive 2011/65/EU of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS2 Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium (Cr6+)	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%
Bis (2-ethylhexyl) phthalate (DEHP)	0.1%	< 0.1%
Butyl benzyl phthalate (BBP)	0.1%	< 0.1%
Dibutyl phthalate (DBP)	0.1%	< 0.1%
Diisobutyl phthalate (DIBP)	0.1%	< 0.1%

Certain components of products as stated above are exempted under the Annex III of the RoHS2 Directives as noted below. Examples of exempted components are:

- Copper alloy containing up to 4% lead by weight.
- Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
- Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.
- Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher.

European Union Regulatory Conformance

The equipment complies with the RF Exposure Requirement 2014/53/EU, Council Recommendation of 16 April 2014 on the limitation of exposure of the general public to electromagnetic fields (0-300 GHz). This equipment meets the following conformance standards: EN301489-1, EN301489-17, EN62368-1, EN300328.

We, hereby, declare that this Wi-Fi radio is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Indian Restriction of Hazardous Substances

Restriction on Hazardous Substances statement (India). This product complies with the "India E-waste Rule 2011" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

Product Disposal at End of Product Life

ViewSonic® respects the environment and is committed to working and living green. Thank you for being part of Smarter, Greener Computing. Please visit the ViewSonic® website to learn more.

USA & Canada:

https://www.viewsonic.com/us/go-green-with-viewsonic

Europe:

https://www.viewsonic.com/eu/environmental-social-governance/recycle

Taiwan:

https://recycle.moenv.gov.tw/

For EU users, please contact us for any safety/accident issue experienced with this product:

ViewSonic Europe Limited





EPREL@viewsoniceurope.com

https://www.viewsonic.com/eu/

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In the interest of continuing product improvement, ViewSonic® Corporation reserves the right to change product specifications without notice. Information in this document may change without notice.

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Customer Service

For technical support or product service, see the table below or contact your reseller.

NOTE: You will need the product's serial number.

Country/ Region	Website	Country/ Region	Website					
Asia Pacific & Africa								
Australia	www.viewsonic.com/au/	Bangladesh	www.viewsonic.com/bd/					
中国 (China)	www.viewsonic.com.cn	香港 (繁體中文)	www.viewsonic.com/hk/					
Hong Kong (English)	www.viewsonic.com/hk-en/	India	www.viewsonic.com/in/					
Indonesia	www.viewsonic.com/id/	Israel	www.viewsonic.com/il/					
日本 (Japan)	www.viewsonic.com/jp/	Korea	www.viewsonic.com/kr/					
Malaysia	www.viewsonic.com/my/	Middle East	www.viewsonic.com/me/					
Myanmar	www.viewsonic.com/mm/	Nepal	www.viewsonic.com/np/					
New Zealand	www.viewsonic.com/nz/	Pakistan	www.viewsonic.com/pk/					
Philippines	www.viewsonic.com/ph/	Singapore	www.viewsonic.com/sg/					
臺灣 (Taiwan)	www.viewsonic.com/tw/	ประเทศไทย	www.viewsonic.com/th/					
Việt Nam	www.viewsonic.com/vn/	South Africa & Mauritius	www.viewsonic.com/za/					
Americas								
United States	www.viewsonic.com/us	Canada	www.viewsonic.com/us					
Latin America	www.viewsonic.com/la							
Europe								
Europe	www.viewsonic.com/eu/	France	www.viewsonic.com/fr/					
Deutschland	www.viewsonic.com/de/	Қазақстан	www.viewsonic.com/kz/					
Россия	www.viewsonic.com/ru/	España	www.viewsonic.com/es/					
Türkiye	www.viewsonic.com/tr/	Україна	www.viewsonic.com/ua/					
United Kingdom	www.viewsonic.com/uk/							

Limited Warranty

ViewSonic® Commercial Display

What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic® will, at its sole option, and as your sole remedy, repair or replace the product with a similar product. Replacement Product or parts may include remanufactured or refurbished parts or components. The repair or replacement unit or parts or components will be covered by the balance of the time remaining on the customer's original limited warranty and the warranty period will not be extended. ViewSonic® provides no warranty for any third-party software whether included with the product or installed by the customer, installation of any unauthorized hardware parts or components (e.g. Projector Lamps). (Please refer to: "What the warranty excludes and does not cover" section).

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

- Any product on which the serial number has been defaced, modified, or removed.
- Damage, deterioration, or malfunction resulting from:
 - » Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - » Repair or attempted repair by anyone not authorized by ViewSonic®.
 - » Damage to or loss of any programs, data, or removable storage media.
 - » Normal wear and tear.
 - » Removal or installation of the product.
- Software or data loss occurring during repair or replacement.
- Any damage of the product due to shipment.
- Causes external to the product, such as electric power fluctuations or failure.
- Use of supplies or parts not meeting ViewSonic's specifications.
- Failure of owner to perform periodic product maintenance as stated in the User Guide.

- Any other cause which does not relate to a product defect.
- Damage caused by static (non-moving) images displayed for lengthy periods of time (also referred to as image burn-in).
- Software Any third-party software included with the product or installed by the customer.
- Hardware/Accessories/Parts/Components Installation of any unauthorized hardware, accessories, consumable parts or components (e.g. Projector Lamps).
- Damage to, or abuse of, the coating on the surface of the display through inappropriate cleaning as described in the product User Guide.
- Removal, installation, and set-up service charges, including wall-mounting of the product.

How to get service:

- For information about receiving service under warranty, contact ViewSonic® Customer Support (Please refer to the "Customer Service" page). You will need to provide your product's serial number.
- To obtain warranty service, you will be required to provide: (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
- Take or ship the product, freight prepaid, in the original container to an authorized ViewSonic® service center or ViewSonic®.
- For additional information or the name of the nearest ViewSonic® service center, contact ViewSonic®.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic® shall not be liable for:

- Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
- Any other damages, whether incidental, consequential or otherwise.
- Any claim against the customer by any other party.
- Repair or attempted repair by anyone not authorized by ViewSonic®.

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Sales outside the U.S.A. and Canada:

For warranty information and service on ViewSonic® products sold outside of the U.S.A. and Canada, contact ViewSonic® or your local ViewSonic® dealer.

The warranty period for this product in mainland China (Hong Kong, Macao, and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.

For users in Europe and Russia, full details of warranty provided can be found at: http://www.viewsonic.com/eu/ under "Support/Warranty Information".

Mexico Limited Warranty

ViewSonic® Commercial Display

What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship, under normal use, during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic® will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components & accessories.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

- Any product on which the serial number has been defaced, modified or removed.
- Damage, deterioration, or malfunction resulting from:
 - » Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, unauthorized attempted repair, or failure to follow instructions supplied with the product.
 - » Causes external to the product, such as electrical power fluctuations or failure.
 - » Use of supplies or parts not meeting ViewSonic®'s specifications.
 - » Normal wear and tear.
 - » Any other cause which does not relate to a product defect.
- Any product exhibiting a condition commonly known as "image burn-in" which results when a static image is displayed on the product for an extended period of time.
- Removal, installation, insurance, and set-up service charges.

How to get service:

For information about receiving service under warranty, contact ViewSonic® Customer Support (Please refer to the attached "Customer Service" page). You will need to provide your product's serial number, so please record the product information in the space provided below on your purchase for your future use. Please retain your receipt of proof of purchase to support your warranty claim.

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Product Name:	Model Number:	
Document Number:	Serial Number:	
Purchase Date:	Extended Warranty Purchase?	(Y/N)
If so, what date does warranty expire?		

- To obtain warranty service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
- Take or ship the product, in the original container packaging, to an authorized ViewSonic® service center.
- Round trip transportation costs for in-warranty products will be paid by ViewSonic[®].

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic®'s liability is limited to the cost of repair or replacement of the product. ViewSonic® shall not be liable for:

- Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
- Any other damages, whether incidental, consequential or otherwise.
- Any claim against the customer by any other party.
- Repair or attempted repair by anyone not authorized by ViewSonic®.

Contact Information for Sales & Authorized Service (Centro Autorizado de Servicio) within Mexico: Name, address, of manufacturer and importers: México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas, Col. San Fernando Huixquilucan, Estado de México Tel: (55) 3605-1099 http://www.viewsonic.com/la/soporte/index.htm NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004 Hermosillo: Villahermosa: Distribuciones y Servicios Computacionales SA de CV. Compumantenimietnos Garantizados, S.A. de C.V. Calle Juarez 284 local 2 AV. GREGORIO MENDEZ #1504 Col. Bugambilias C.P: 83140 COL, FLORIDA C.P. 86040 Tel: 01-66-22-14-9005 Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09 E-Mail: disc2@hmo.megared.net.mx E-Mail: compumantenimientos@prodigy.net.mx Puebla, Pue. (Matriz): Veracruz, Ver.: CONEXION Y DESARROLLO, S.A DE C.V. Av. RENTA Y DATOS, S.A. DE C.V. Domicilio: 29 SUR 721 COL. LA PAZ Americas # 419 72160 PUEBLA, PUE. ENTRE PINZÓN Y ALVARADO Tel: 01(52).222.891.55.77 CON 10 LINEAS Fracc. Reforma C.P. 91919 Tel: 01-22-91-00-31-67 E-Mail: datos@puebla.megared.net.mx E-Mail: gacosta@qplus.com.mx Chihuahua: Cuernavaca: Soluciones Globales en Computación Compusupport de Cuernavaca SA de CV C. Magisterio # 3321 Col. Magisterial Francisco Leyva # 178 Col. Miguel Hidalgo Chihuahua, Chih. C.P. 62040, Cuernavaca Morelos Tel: 4136954 Tel: 01 777 3180579 / 01 777 3124014 E-Mail: Cefeo@soluglobales.com E-Mail: aquevedo@compusupportcva.com Distrito Federal: Guadalajara, Jal.: QPLUS, S.A. de C.V. SERVICRECE, S.A. de C.V. Av. Niños Héroes # 2281 Av. Coyoacán 931 Col. Del Valle 03100, México, D.F. Col. Arcos Sur, Sector Juárez Tel: 01(52)55-50-00-27-35 44170, Guadalajara, Jalisco E-Mail: gacosta@qplus.com.mx Tel: 01(52)33-36-15-15-43 E-Mail: mmiranda@servicrece.com Monterrey: Guerrero Acapulco: GS Computación (Grupo Sesicomp) Global Product Services Progreso #6-A, Colo Centro Mar Caribe # 1987, Esquina con Golfo Pérsico Fracc. Bernardo Reyes, CP 64280 39300 Acapulco, Guerrero Tel: 744-48-32627 Monterrey N.L. México Tel: 8129-5103 E-Mail: aydeem@gps1.com.mx MERIDA: Oaxaca, Oax.: ELECTROSER CENTRO DE DISTRIBUCION Y Av Reforma No. 403Gx39 y 41 SERVICIO, S.A. de C.V. Mérida, Yucatán, México CP97000 Murguía # 708 P.A., Col. Centro, 68000, Oaxaca Tel: (52) 999-925-1916 Tel: 01(52)95-15-15-22-22 E-Mail: rrrb@sureste.com Fax: 01(52)95-15-13-67-00 E-Mail. gpotai2001@hotmail.com Tijuana: **FOR USA SUPPORT:** STD ViewSonic® Corporation Av Ferrocarril Sonora #3780 L-C 381 Brea Canyon Road, Walnut, CA. 91789 USA Col 20 de Noviembr Tel: 800-688-6688

Smart White Board Warranty Term Template In UG VSC_TEMP_2013

Tijuana, Mexico

E-Mail: http://www.viewsonic.com

