

## LDC031 Series

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<sup>®</sup> 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. VS19921 | VS19922 | VS19923 | VS19924 P/N: LDC031-120 | LDC031-150 | LDC031-180 | LDC031-250

## Thank you for choosing ViewSonic®

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

Once again, thank you for choosing ViewSonic<sup>®</sup>!

## **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<sup>®</sup>. 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 89.

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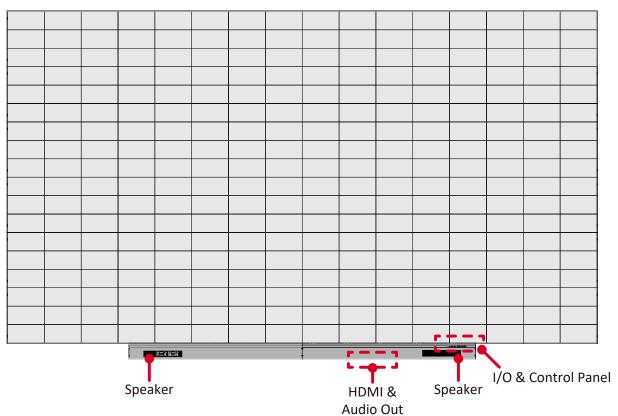
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## Introduction

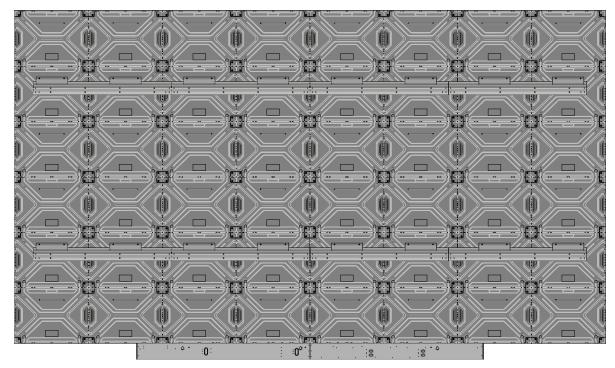
### **Product Overview**

**NOTE:** Below is an 8 x 6 cabinet example. Sizing will vary by model.

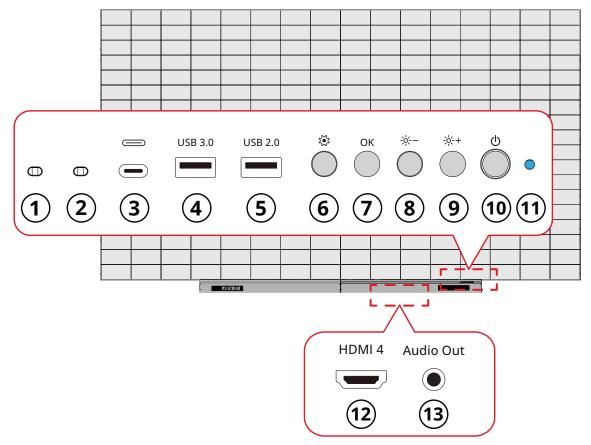
#### **Front View**



#### **Rear View**



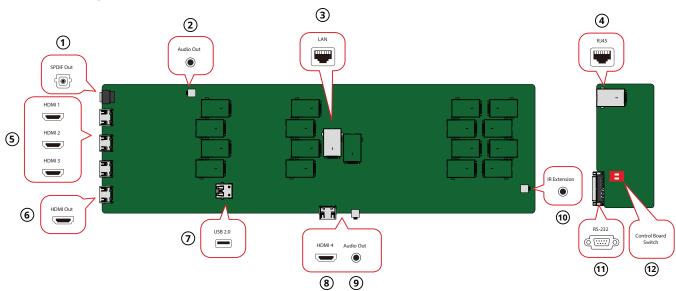
## Control Panel and I/O



	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	<ul><li>Brightness adjustment button.</li><li>Confirm selection when the OSD Menu is open.</li></ul>
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.



	ltem	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.	
		<b>NOTE:</b> This port can also be accessed without removing the System Control Box Cover.	
Audio output to an external audio device.		Audio output to an external audio device.	
9 Audio Out NOTE: This port can also be accessed without reactive the System Control Box Cover.		<b>NOTE:</b> 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.	
Switch NOTE: Make sure to switch to the left for RS-232 contr			

### **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.	3 Blank
5	Directional	Navigate menus and make adjustments.	
6	ОК	Confirm the selection.	
7	Menu	Open the display settings or On-Screen Display (OSD) Menu.	
8	Return	Return to the previous screen or exit a menu.	
9	Home	Go to the Home screen.	
10	Volume Control	Adjust the volume level.	
11	Mute	Turn off the display's sound.	ViewSonic
12	Forwards/ Backwards	Move to next or previous content.	
13	Play/Pause	Play or pause content.	

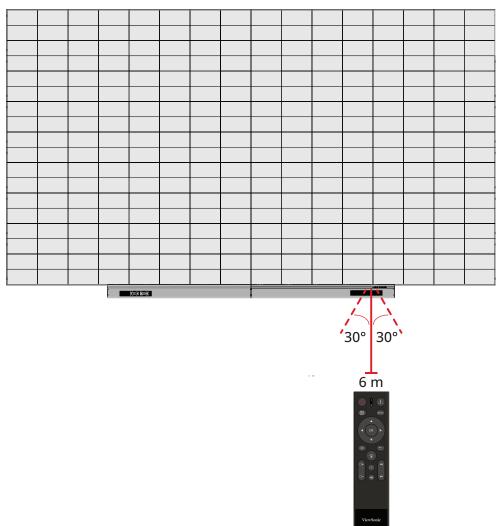
#### **Bluetooth Remote Control Pairing**

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.

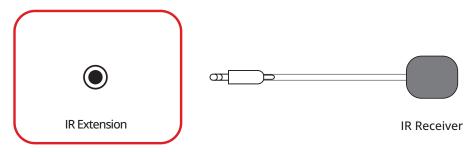
#### **Remote Control Receiver Range**

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.

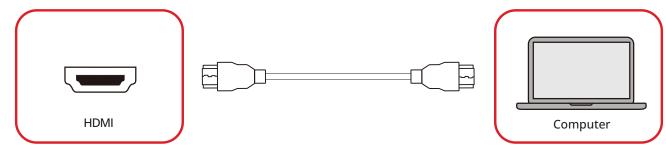
#### NOTE:

- 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

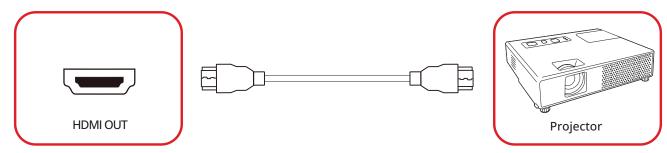
HDMI



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**

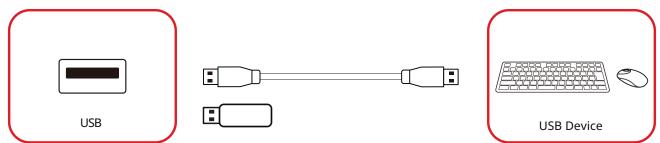


To output video via an external display device, connect an HDMI cable to the **HDMI IN** port of your external display device, and the other end to the **HDMI OUT** port of the display.

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

## **USB** Connection

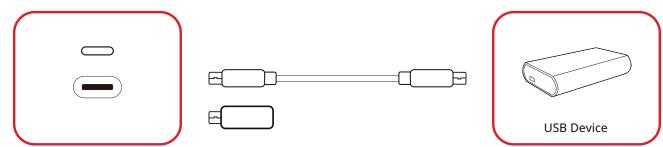
#### USB Type A



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

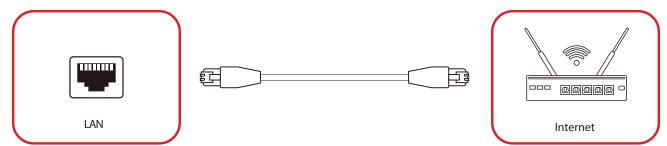


Plug the USB device or storage drive into the USB Type C ( $\bigcirc$ ) port on the display's control panel.

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

## **Network Connection**

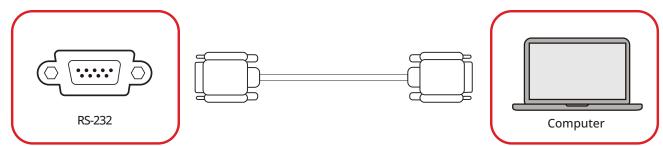
LAN



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.

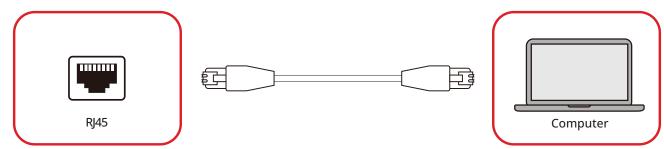
### Control Connection RS-232 (DB 9-pin)



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)

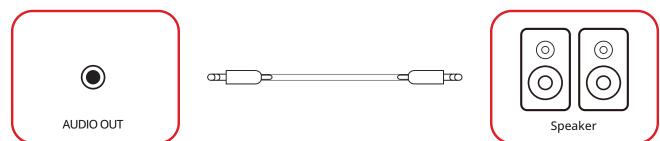


When you use an Ethernet cable to connect the display to an external computer or control system, certain functions can be controlled remotely such as: power on and off, volume adjustment, input select, brightness, and more.

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

# Audio Connection

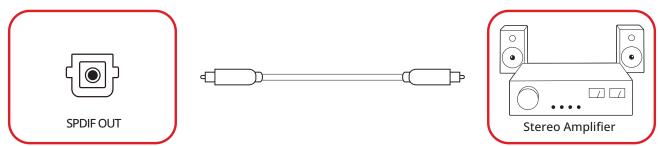
To play audio from the display through an external speaker, connect one end of an audio cable to the external speaker, and the other end to the display's **Audio Out** port.



**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

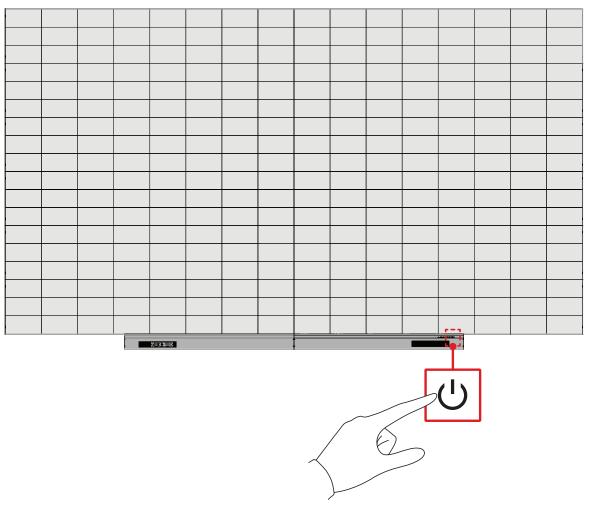
To play audio from the display through an external speaker, connect one end of an optical cable to the external speaker, and the other end to the display's **SPDIF Out** port.



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

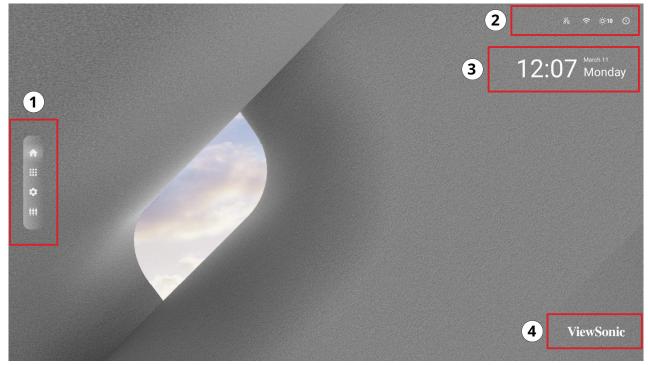
## **Using Your Display**

## Turning the LED Display On/Off



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

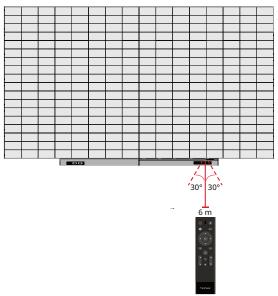
### **Home Screen**



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 >	
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:

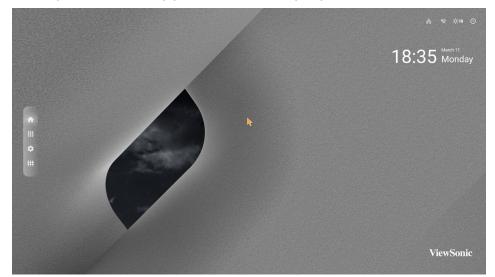


#### **Keyboard and Mouse**

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

USB	USB Device

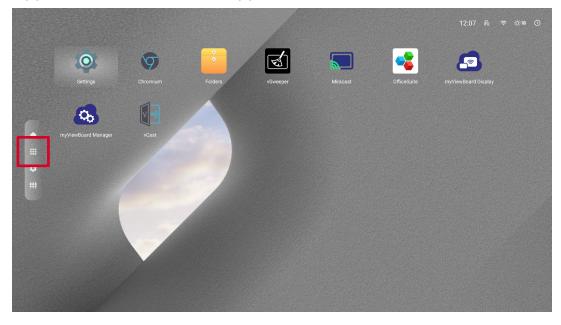
An orange mouse pointer will appear on the display when used.



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

## **App Center**

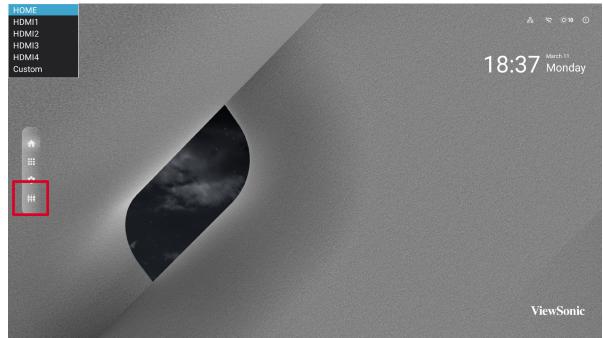
Installed applications will be in the App Center.



lcon	Name	Description
Ó	Settings	Adjust and view the display's settings.
9	Chromium	Web browser.
3	Folders	File explorer.
<b>B</b>	vSweeper	Resource management tool.
	Miracast	Wireless screen mirroring.
	OfficeSuite	Create documents, spreadsheets, and presentations.
6	myViewBoard Display	Wirelessly mirror your desktop.
<b>\$</b>	myViewBoard Manager	Remote device management.
•))	vCast	Receive casted content from other devices.

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

### **Input Source**

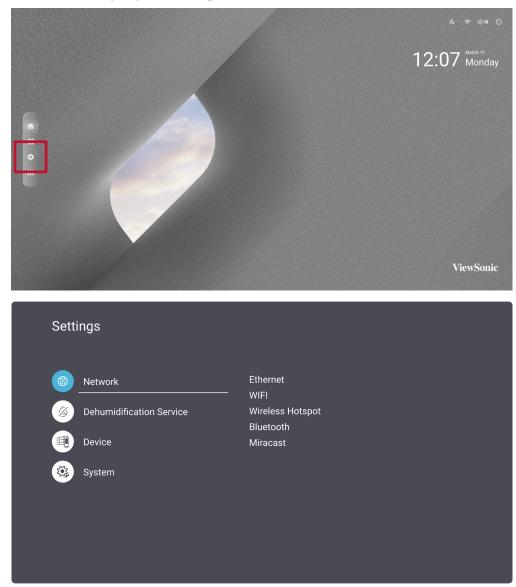


The display supports eight input sources: Home, HDMI 1, HDMI 2, HDMI 3, HDMI 4, and Custom.

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, Bluetooth, and Miracast 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.	

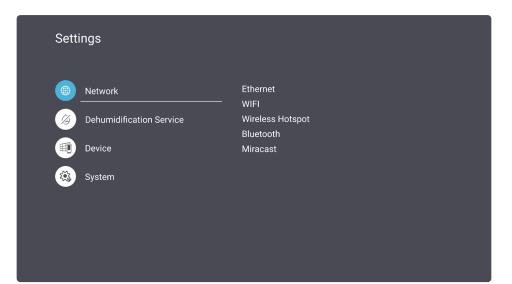
### Settings Menu Tree

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

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

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

#### Network



Sub-menu	Description	
	Open the Wi-Fi selection interface to enable or disable Wi-Fi and connect to a Wi-Fi network.	
	S WIFI	
	Second Secon	
	OTHER NETWORKS 중 🔒 A096	
	হি নি CVTE	
	중	
Wi-Fi	You can also select <b>Add Network</b> in the Wi-Fi selection screen to manually add a Wi-Fi network.	
	Disable + Add WIFI	
	Add network	
	KS Network name	
	Security	
	VORKS	
	ome	
	Enable or disable Wireless Hotspot. Once enabled, the hotspot	
	name will be displayed and can be connected to.	
	S Wireless Hotspot	
	Main switch	
Wireless	■ Disable ■ Enable	
Hotspot	Hotspot Configuration	
	Network Name:LED-AIO-a142a Security Type:WPA2 PSK	

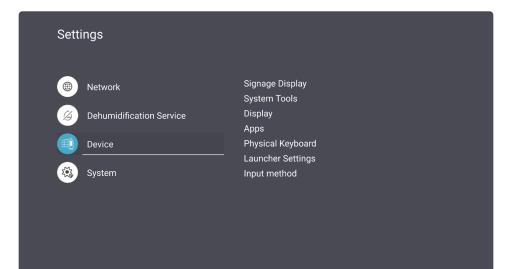
Sub-menu	Description	
	Enable or disable Bluetooth. Once enabled, available devices will be displayed and can be connected to.	
	Bluetooth	
	Bluetooth O ···· Your device is visible to nearby devices while Bluetooth settings is open Disable	
Bluetooth	■ Enable	
	<b>NOTE:</b> The volume of a connected Bluetooth speaker cannot be adjusted with the remote control.	
	Enable or disable Miracast.	
	Miracast	
	Main switch © Disable © Enable	
Miracast	Detail Name:LDC031-120	

#### **Dehumidification Service**



Sub-menu	Description	
Dehumidification Settings	Set the dehumidification level or shut it down.	
Begin Dehumidification	Manually start the dehumidification process.     Network   Dehumidification Settings   Dehumidification   Dehumidification   Dehumidification   Dehumidification   Dehumidification service will take about %s minutes. When the process is finished, the LED display will automatically turn off. Do you want to start the Dehumidification service?   System	

#### Device



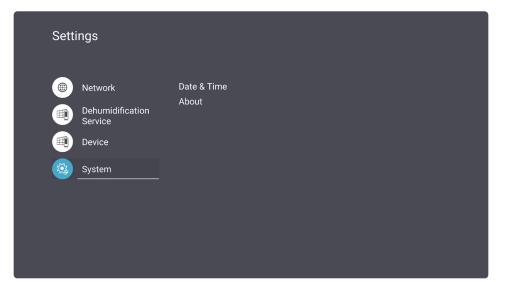
Sub-menu	Description	
	Signage Display	
	General settings	
	Signage Display Name LDC031-120	
	Boot logo	
	Source settings	
	Custom App	
	Credentials settings	
	Trusted Credentials	
Signage Display	User Credentials	
	General Settings Set the Signage Display Name and Boot Logo.	
	Source Settings Set the application to open when the <b>Custom</b> input source is selected.	
	<u>Credential Settings</u> View and clear credentials and install from storage.	
	Security Review privacy and copyright protections, allow external USB storage and installing applications from unknown sources.	

Sub-menu	Description	
	System Tools	
	Clear Storage	
	All Internal storage USB storage	
	Reset Factory Reset	
	Import&Export Export Signage Display Settings Import Signage Display Settings	
System Tools	Clone	
	Clone Media Files	
	<u>Clear Storage</u> Clear storage space from both internal and external storage.	
	<u>Reset</u>	
	Reset the display to its default factory values.	
	Import & Export Import or export the display's settings.	
	<u>Clone</u> Copy media files from the display.	
	Display Font Size Normal	
	Screensaver Never	
Display		
	<u>Font Size</u> Set the font size for the display.	
	<u>Screensaver</u>	
	Enable or disable a screensaver.	

Sub-menu	Description		
	View information about the display's running, downloaded, or all applications.		
	Apps		
	Running All Download		
Apps	1.28GB of 3.75GB RAM Used		
	System(967.79MB) Apps(348.11MB) Available(2.46GB)		
	Sort by name     App RAM usage     OfficeSuite     1 process     101.50MB		
	vCast 1 process 100.77MB 0.27:15		
	myViewBoard Display 1 process 47.01MB 0:27:15		
	View and select a keyboard input method.		
Physical Keyboard	Physical Keyboard		

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

#### System



Sub-menu	Description	
Date & Time	Date & Time           Select time zone           GMT+08:00 Hong Kong Standard Time           NTP Server           524288,1048576,2097152,262144,524288,1048576	
	<u>Select Time Zone</u> Set the display's time zone. <u>NTP Server</u> View NTP service information.	

Sub-menu	Description		
	View information about the display and update the system locally or online.		
About Device	Conline system updates         Legal information         Android version         9         Operation hours         231.5 hours         Kernel version		

### **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).

Welcome 18:22 2024.03.11 Monday	
Picture	
	– Contrast
РВР	
	Color Temperature
Audio	Picture Mode
🕒 Time	RGB Range
Advanced	Gamma Set
(i) About	Picture Reset

To open and operate the OSD Menu:

- **1.** Press the **MENU** (🔅) button on the remote control.
- **2.** Press  $\nabla/A/\langle \rangle$  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 (🔅) 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 Tomo oroturo	Normal	
	Color Temperature	Cool	
		User	
		Normal	
Dieture	Disture Made	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	
	Picture Reset	Cancel	
	Picture Reset	Reset	
		Full	
	Zoom Mode	Real	
Screen		Dynamic	
JUEEN		21:9	
	Screen Reset	Cancel	
	שלים לאלים	Reset	

Main Menu	Sub-menu	Menu Option
	PBP Mode	Full Screen
		Dual Screen
		Three-part Screen
000		Center Screen
PBP		Quad Screen
	PBP Source	
	PBP Audio	
	PBP Reset	
		Top Left
	PIP Mode	Top Right
	PIP Mode	Bottom Left
PIP		Bottom Right
FIF	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
	Volume Control	Speaker
		SPDIF
		Headset
	Audio Reset	Cancel
		Reset

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

Main Menu	Sub-menu	Menu	Option
		Panel Saving	Off
			On
	Coving	Power Save	Sleep
	Saving	Power Save	Hibernate
		Light Consing	Off
		Light Sensing	On
		Boot On Source	Last Source
		Boot on source	Input
	Boot		ViewSonic
	BOOL	Boot On Logo	Blue
		BOOL OIL LOGO	Black
			Custom
Advanced		Auto Signal Detection	Off
	Signal		On
		No Signal Standby	(Off/0 min/5 min/15 min/30 min)
		HDMI with One Wire	Off
			On
		HDMI Version	1.4
			2.0
	Port		Auto
		USB Cloning	Import
			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
			Russian
Advanced	Other	Language	Dutch
			Traditional Chinese
			Simplified Chinese
			Turkish
			Arabic
		Factory Reset	Cancel
			Reset
		Advanced Reset	Cancel
			Reset
About	Heat Status	xx° C / xx° F	
	Monitor Information	Model Name	
		Serial No.	
		Operation Hours	
		SW Version	

#### **Menu Options**

#### Picture

Welcome 18:22 2024.03.11 Monday	
Picture	
Screen	
□ РВР	
PIP	
	Color Temperature
Audio	Picture Mode
E Time	RGB Range
X Advanced	Gamma Set
(i) About	Picture Reset

- **1.** Press the **MENU** (()) button on the remote control to display the OSD Menu.
- Then press OK or use ▼/▲/◀/▶ 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 
   I to adjust/select the setting.
  - **NOTE:** Some sub-menu options may have another sub-menu layer.

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	<b>Color</b> Adjust the amount of color in the on-screen image.	
Color Temperature	Set how color appears on screen using the Kelvin scale.	
<b>Picture Mode</b> 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

Welcome	<b>18:27</b> 2024.03.11 Monday	
Picture		Zoom Mode
Screen		Screen reset
PIP		
📣 Audio		
🕒 Time		
X Advance	ed	
(i) About		

- **1.** Press the **MENU** (🔅) button on the remote control to display the OSD Menu.
- Then press OK or use V/▲/
   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)**

Welcome 18:28 2024.03.11 Monday	
Picture	PBP
Screen	Pic1 Source
PBP	
РІР	
Audio	PBP Audio
Audio	PBP Reset
C Time	
X Advanced	
(i) About	

- **1.** Press the **MENU** (🔅) button on the remote control to display the OSD Menu.
- **2.** Then press **OK** or use  $\forall / \land / \land / \land$  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 
   I 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)**

Welcome 18:29 2024.03.11 Monday	
Picture	PIP
Screen	
РВР	
<u>PIP</u>	PIP Reset
Audio	
E Time	
Advanced	
(Î) About	

- **1.** Press the **MENU** (🔅) button on the remote control to display the OSD Menu.
- **2.** Then press **OK** or use  $\nabla/\Delta/\langle/\rangle$  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 
   I 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

Welcome 18:30 2024.03.11 Monday	
Picture	Treble
Screen	Bass
	Volume
РВР	Maximum volume
	Minimum volume
	Mute
Audio	Volume Control
(b) Time	Audio reset
X Advanced	
(i) About	

- **1.** Press the **MENU** (()) button on the remote control to display the OSD Menu.
- Then press OK or use V/▲/◀/► 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 
   I 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

Welcome 18:32 2024.03.11 Monday	
Picture	Off time
Screen	Date and Time
	Schedule
РВР	SlideShow Interval
	OSD turn off
	OSD Information
Audio	Time Reset
C	
X Advanced	
(1) About	

- **1.** Press the **MENU** (🔅) button on the remote control to display the OSD Menu.
- **2.** Then press **OK** or use  $\mathbf{\nabla}/\mathbf{A}/\mathbf{A}$  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 
   I 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

Welcome 17:29 2024.02.28 Wednesday	
Picture	Saving
Screen	Panel saving
	Power save
РВР	Light Sensing
	Boot
	Boot on source
Audio	Boot on Logo
E Time	Signal
	Auto signal detection
Advanced	No Signal Standby
(j) About	Port
	HDMI with One Wire
	USB cloning
	HDMI Version
	USB Auto Play
	Other
	Switch on state
	Language
	Factory Reset
	Advanced Reset

- **1.** Press the **MENU** (()) button on the remote control to display the OSD Menu.
- Then press OK or use V/▲/
   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	
	Panel Saving Reduces the risk of image burn-in when enabled.	
Saving	<u>Power Save</u> Reduce power co	nsumption.
out ing	Option	Description
	Sleep	Power usage is 38W. LAN control can still be used in this mode.
	Hibernate	Power usage is < 0.5W.

Sub-menu	Description
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.
Signal	Auto Signal Detection Allow the display to detect and display available input sources automatically.
Jigilai	No Signal Standby Set the time period for the display to enter standby mode when there is no input signal.
	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.
Port	<u>USB Cloning</u> Save the OSD Menu configuration to a USB storage device.
	HDMI Version Select the HDMI version.
	<u>USB Auto Play</u> 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. <b>NOTE:</b> If power is lost during the file transfer, please remove
	the files from the internal storage and try again.
	<u>Switch On State</u> 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.
Other	<u>Language</u> Set the language for the OSD Menu.
	<u>Factory Reset</u> Reset all OSD Menu settings to their default values.
	Advanced Reset Reset the Advanced settings to their default values.

#### About

Welcome 17:36 01.23.2024 Tuesday	
Picture	Heat status
Screen	Monitor Information
	Model name
РВР	Serial NO.
🕞 PIP	Operation hours
	SW Version
Audio	
🕒 Time	
X Advanced	
() <u>About</u>	

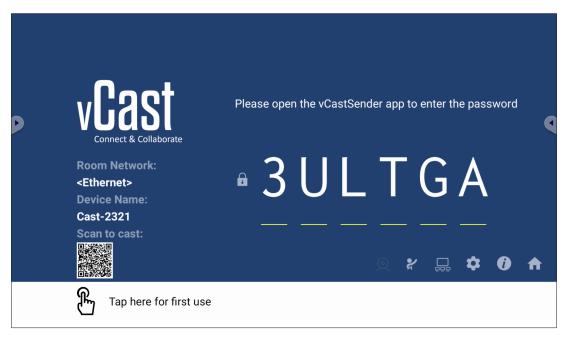
- **1.** Press the **MENU** (()) button on the remote control to display the OSD Menu.
- Then press OK or use V/▲/
   on the remote control to select the About menu.
- 3. Press ▼/▲ to select the menu option. Then press OK to display its sub-menu, or press 
   I to adjust/select the setting.

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

# **Pre-installed Applications**

### vCast

Working with ViewBoard<sup>®</sup> 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.

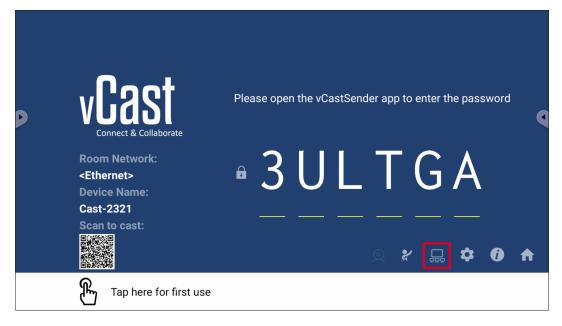


#### **Network Information**

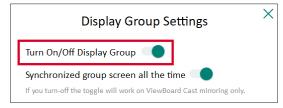
- ViewBoard<sup>®</sup> Cast software, laptops, and mobile devices can connect to both the same subnet and cross subnet by entering the on-screen PIN code.
- Connected devices will show up under **Device List** on the same subnet connection.
- If the device does not show up under **Device List**, users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

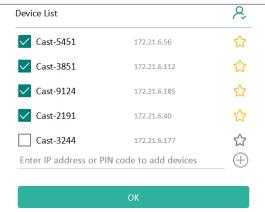
To adjust the Display Group Settings, select the Display Group icon  $(\Box_{\Box\Box})$  located in the lower-right corner of the screen.



**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:

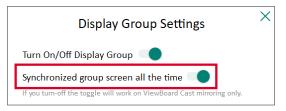
- If the devices you want to group are not listed, you can enter their respective IP address or connecting PIN code.
- The Display Group maximum device limit is six devices.

**3.** If you frequently connect to the same device, you can select the Star icon ( $\bigwedge$ ) 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.

t	e IP address is changed or	
Cast-2191	172.21.6.40	On-line (
Cast-9124	172.21.6.185	On-line (
Cast-3851	172.21.6.112	On-line (
Cast-5451	172.21.6.56	On-line (
Cast-5451	172.21.6.56	On-line

#### 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.

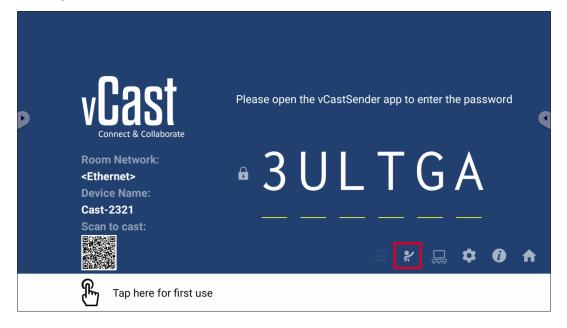
#### Share a Screen to the Display Group (One to Many Casting)

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.

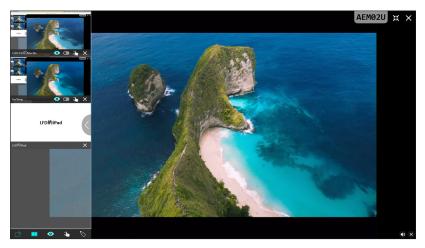


When enabled, the moderator can view a list of all connected screens in the left floating window and can preview each participant's screen and then select any of participant's screen and cast to the display's main screen for presentation. The moderator can also control each participant's screen, annotate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



### ြာ၏ 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.

#### O 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.

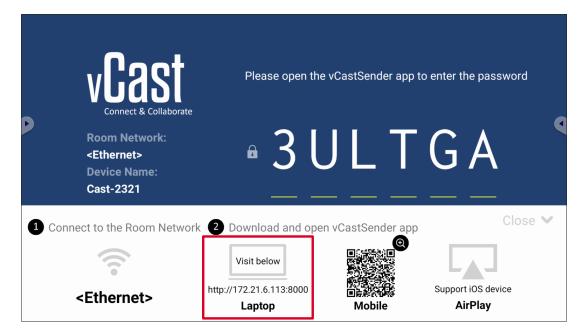
## Touch

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:

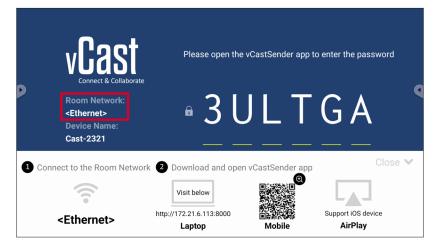
- Moderator Mode is supported on all vCastSender and AirPlay devices, but mobile devices are limited to a "preview" function. Additionally, mobile Android devices cannot cast sound out.
- When you cast your Windows/Mac/Chrome screen to the display, the selected full screen unit will not be broadcasted 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.

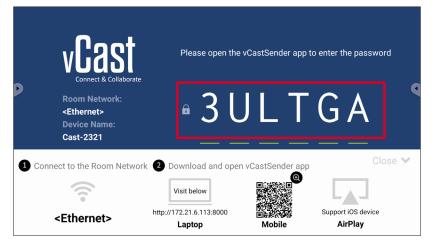
**NOTE:** The network name can be found under **Room Network**.



- **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.

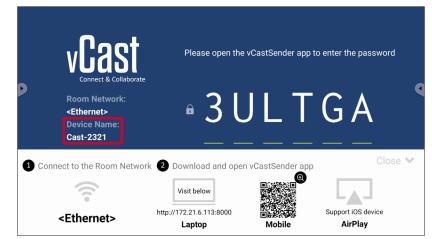
**NOTE:** The **PIN code** can be found as highlighted below:



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

vCastSender		vCas	tSender	
Please Enter PIN Code connect to Viev	WBoord	5	Device List	
Please Enter Pin Code connect to view	wboaru	Cast-3447		172.21.13.93
		Cast-6314		172.21.10.103
Clear OK		Cast-3084		172.21.11.187
		Cast-1176		172.21.10.31
		Cast-5152		172.21.12.85
		Cast-6124		172.21.12.62
D	evice List			
SUS_AI22 🖉 172.21.11.1 <ur< th=""><th>nknown ssid&gt;</th><th>ASUS_AI22</th><th>₫ 172.21.11.1</th><th><unknown ssi<="" th=""></unknown></th></ur<>	nknown ssid>	ASUS_AI22	₫ 172.21.11.1	<unknown ssi<="" th=""></unknown>

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

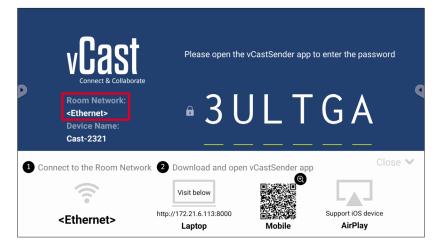


#### **Casting from Android Devices**

	vCast		e vCastSender app t	to enter the password
•	Room Network: <ethernet> Device Name: Cast-2321</ethernet>	• <u>3</u> [	J L T	GA
1 Cor	nnect to the Room Netwo	ork 2 Download and ope	en vCastSender app	Close 🗙
	(((1-	Visit below		
	<ethernet></ethernet>	http://172.21.6.113:8000 Laptop	同時参次が参 Mobile	Support iOS device <b>AirPlay</b>

**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**.

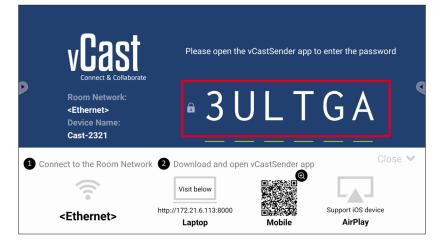


**2.** On the Android client device, scan the QR code shown on the display to directly download the vCastSender application, or download the application from the Google Play Store.



- **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:



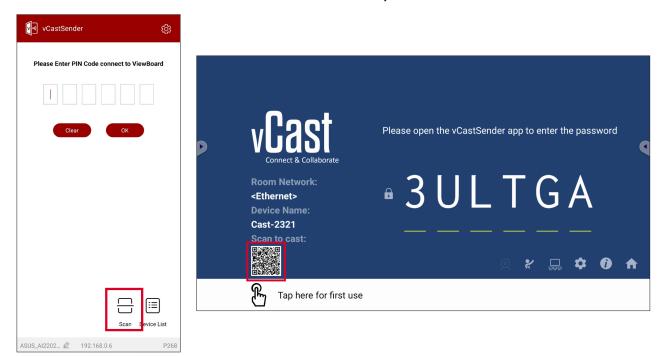
5. You can also connect to the display by selecting **Device List** then the **Device Name** listed.

र्षुज vCastSender द्	€	vCas	tSender	
Please Enter PIN Code connect to ViewBoard	4	D	Device List	
		Cast-3447		172.21.13.93
		Cast-6314		172.21.10.103
Clear OK		Cast-3084		172.21.11.187
		Cast-1176		172.21.10.31
		Cast-5152		172.21.12.85
		Cast-6124		172.21.12.62
Scan Device List				
ASUS_AI2202 🖉 192.168.0.6 F	268 AS	US_AI22	⊿ 172.21.11.1	<unknown ssid=""></unknown>

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

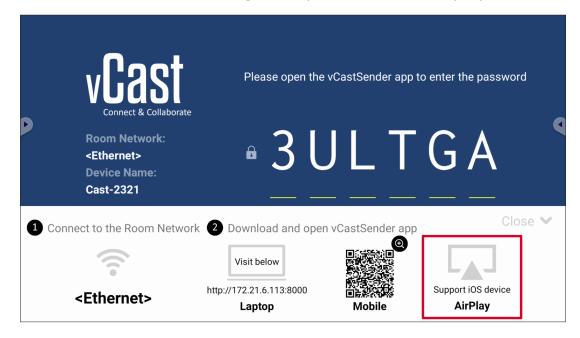


**6.** Additionally, you can connect to the display by selecting **Scan** then placing the on-screen QR code into the box to automatically connect.

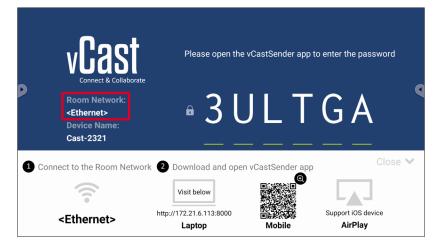


#### **Casting from Apple iOS Devices**

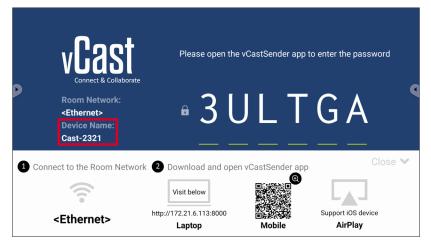
Apple AirPlay<sup>®</sup> is compatible with vCast for screen mirroring and content streaming under the same subnet environment only. An "AirPlay Password" will be generated on-screen for connection when using AirPlay to cast to the display.



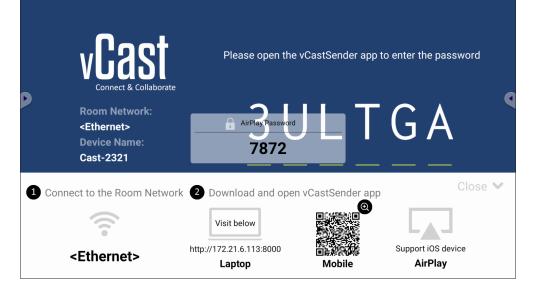
- **1.** Ensure the client device (e.g., iPhone or iPad) is connected to the same network as the display.
  - **NOTE:** The network name can be found under **Room Network**.



- 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:

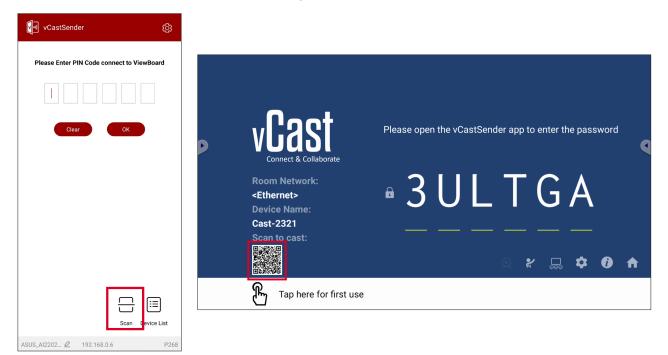


3. Input the generated on-screen AirPlay Password on the client device to connect.



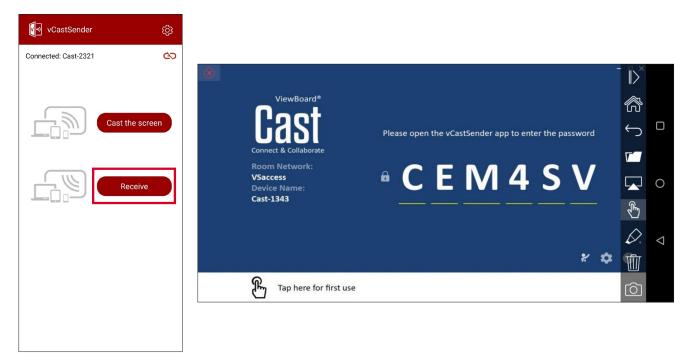
**NOTE:** In a cross subnet environment, please download and connect with the vCastSender iOS application from the Apple App Store.

**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.

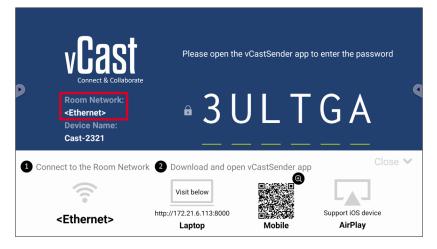


Item Description		Description	
$\left \right\rangle$	Toggle	Hide or display the toolbar.	
R	Home	Return to the Home interface.	
$\leftarrow$	Return	Return to the previous operation.	
V	Folder	View or open the mobile device's files.	
	Share	hare Cast the mobile device's screen to the connected display.	
$\mathbb{P}$	Touch	Remotely control the connected display.	
$\Diamond$	Annotate Make annotations, and adjust the pen color.		
Ŵ	Clear	Clear everything on screen.	
Ô	Camera	Send camera images to the connected display.	

#### **Casting with Chromecast**

vCast supports native Chromecast screen sharing via the Chrome browser casting when the Chromecast feature is enabled.

- **NOTE:** Chromecast does not support password protection or multiple-screen casting.
- **1.** Ensure the client device (e.g., laptop) is connected to the same network as the ViewBoard.
  - **NOTE:** The network name can be found under **Room Network**.



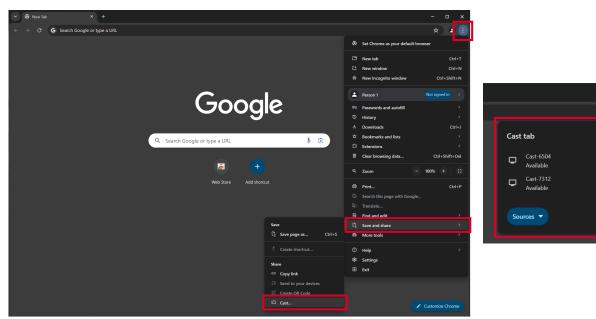
2. Ensure the Chromecast Enable checkbox is selected in the vCast settings.

	Cast Settings				
	Device Name: Cast-6585				
VEAS	Connect Code: V9N2LL C	o connect	tha d	ovico	
Connect & Colla	PIN Code Visible	o connect	uie u	evice	
Room Network:	Couch & Annotate From Mobile	ne:			
old_cat_5G_WP	Chromecast Enable	585			
Device Name:	Smart Scaling	505			
Cast-6585 Scan to cast:	Miracast Enable (Miracast sharing is only available when Wi-Fi is connected)				
	Multiple Screen: 4 Screens   (Support laptop - Windows/Mac/Chrome only)				
	: iOS Advanced Settings		\$	A	♠
	Cast Settings Password Setup OK RIN Enable	000		<b>`</b>	
H Tap here 1	Screen capture saved to internal storage				

3. In the Chrome browser, go to: Settings > Save and share > Cast... > Select the screen to cast to.

☆ ╗

×

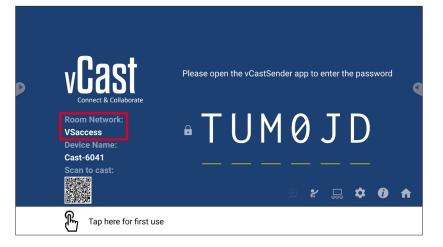


### **Casting with Miracast**

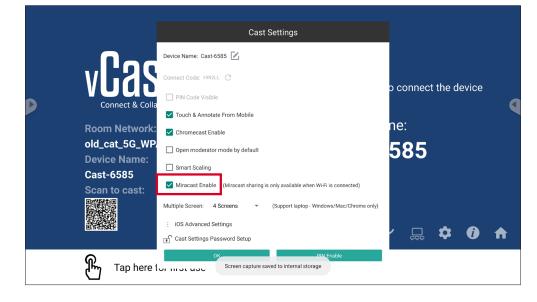
vCast supports native Miracast to cast content from Windows and Android devices to a ViewBoard when the Miracast feature is enabled.

#### NOTE:

- Miracast does not support password protection or multiple-screen casting.
- Miracast sharing is only available over Wi-Fi.
- Miracast will automatically turn off after being idle for one hour.
- **1.** Ensure the client device (e.g., laptop) is connected to the same network as the ViewBoard.
  - **NOTE:** The network name can be found under **Room Network**.



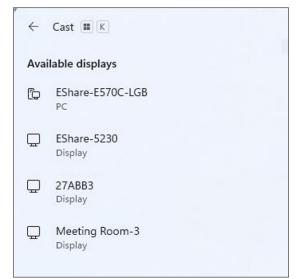
2. Ensure the Miracast Enable checkbox is selected in the vCast settings.



**3.** Please follow the below steps to cast:

For Windows devices:

**1.** On the Windows device, press Win + K and select the display to cast to.



**2.** Select the checkbox "Allow mouse, keyboard, touch, and pen input from the device" to enable the touch feedback feature.



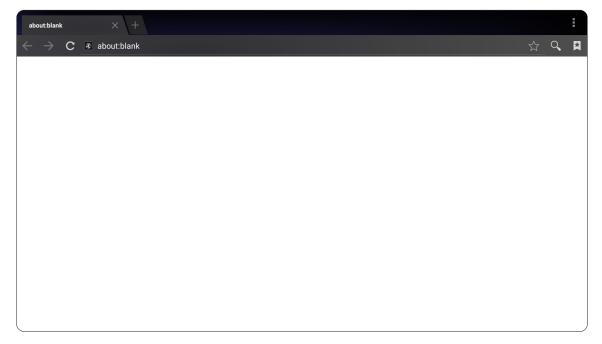
#### For Android devices:

On the Android device, directly select Cast/Smart View/Wireless Projection then select the display to cast to.

# **Other Default Applications**

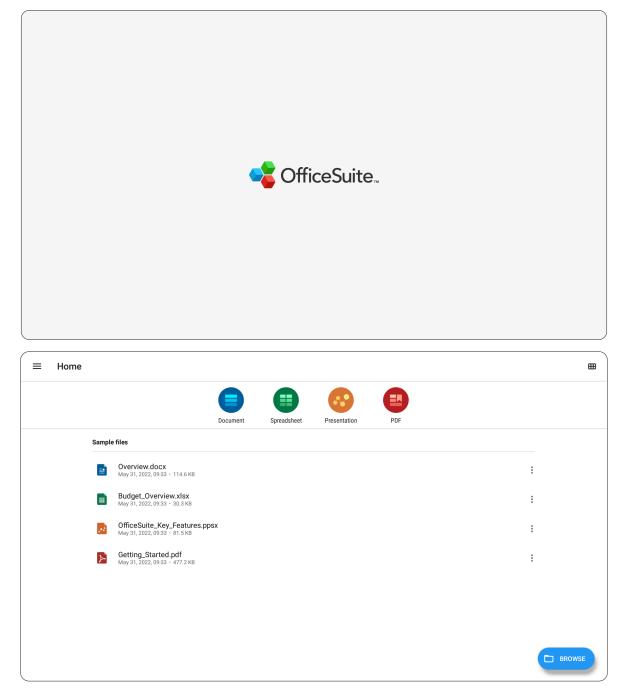
## Browser

Web browser for surfing the Internet.



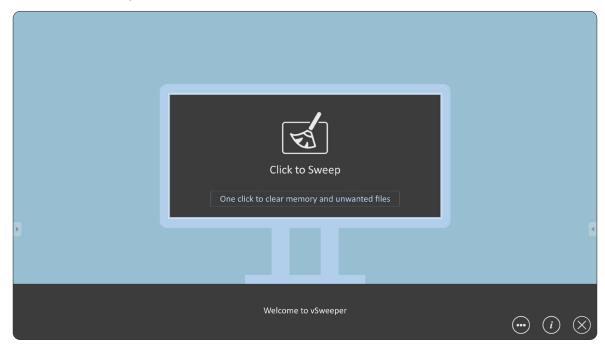
## OfficeSuite

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.

Main Preference		
Clear all	Auto Clear Interval	
Auto clear all junk files when the app starts <ul> <li>Exit after clearing</li> <li>Exit after the clear button is clicked and the clean up has completed</li> </ul> <li>Auto Clear <ul> <li>Auto clear interval</li> <li>Automatically clear all caches</li> </ul></li>	<ul> <li>No auto clear</li> <li>1 hour</li> <li>3 hours</li> <li>6 hours</li> <li>12 hours</li> </ul>	<ul> <li>1 day</li> <li>2 days</li> <li>1 week</li> </ul>
Auto clear on boot Automaticaly clear caches on system startup		
Advanced Setting	5	<ul> <li>i</li> </ul>

# Appendix

# Specifications

Item	Category	Specifications						
Model		LDC031-120	LDC031-150	LDC031-180	LDC031-250			
	Туре	Direct View LED Display						
	Size	78.74 cm						
	5120	31"						
	Active Size	640 x 480 mm	1					
	(H x V)	25.20" x 18.90"						
LED Screen	Pitch Size	1.25 mm	1.53 mm	1.83 mm	2.5 mm			
	Resolution	512 x 384	416 x 312	348 x 261	256 x 192			
	Refresh Frequency	3840 Hz						
	Contrast Ratio	6500:1 (Typic	al)					
	Brightness	100-600 cd/m	12 (100 levels of	f adjustment)				
	LED Lifespan	100,000 hour	s					
		4 x HDMI (	v. 2.0; HDCP 2.2	2)				
		1 x USB Ty	pe 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-Filr	nput (2.4 G/5 G	Hz)				
		1 x HDMIC	Dut					
Output Signal				internal; 1 x 3.	5 mm			
output oight		externa						
		1 x USB Type A (Shared) [5V/2A]						
Speaker Output		2 x 30W						
RS-232		RS-232 Serial	Control					
		100-120V/30/	•					
Power	Voltage	220-240V/15A ~ 50Hz						
		(will vary by c	ountry)					
	Altitude	≤ 5,000 m						
Onorating	Dalativa	≤ 16,404 ft						
Operating Conditions	Relative Humidity	10%~80% nor	n-condensing					
	Tomporatura	0° C to 40° C						
	Temperature	32° F to 104° F						

Item	Category	Specifications					
	مالغنام	≤ 5,000 m					
	Altitude	≤ 16,404 ft					
Storage Conditions	Relative Humidity	10%~85% non-condensing					
	To man a watu wa	-10° C to 60° 0	2				
	Temperature	14° F to 140° F					
Physical	De la Calificia I	640 x 480 x 31 mm					
Dimensions (W x H x D)	Per Cabinet	25.2" x 18.9" x 1.2"					
) A / a i a la t	Den Cabinat	6.3 kg					
weight	Weight Per Cabinet		13.89 lbs				
	On (Typical)	53W	39W	37W	29W		
Power	On (Maximum)	150W	110W	105W	83W		
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	BMP	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	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	
		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	
	.avi	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			
					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	.mkv	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			
		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
		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
		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

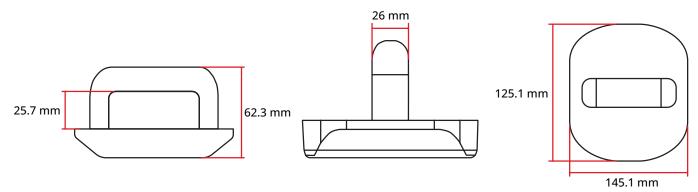
Туре	File Type	Codec	Ability		
Video	.webm	VP8	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps		
		VP9	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 60 fps Maximum Bit Rate: 100 Mbps		
	.wmv	VC-1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

## Dimensions



# Specifications

Item	Description
Model	LD-MK-004
Product Dimension	145.1 x 125.1 x 62.3 mm
	5.71" x 4.93"x 2.45"
Weight	0.5 kg
	1.10 lbs

# Troubleshooting

# General

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

# Video Not Working Properly

Problem or Issue	Possible Solutions
	1. Check the Power status.
No picture/No sound	2. Check the signal cable.
	<b>3.</b> 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	<ol> <li>Check if other electronics or different signal types are interrupting the signal.</li> </ol>
	<b>3.</b> An optional active video cable or optional video extender is required for a long distance source.
Poor picture	<ol> <li>Adjust chroma and/or brightness settings in the menu.</li> </ol>
	2. Check the signal cable.
	<b>3.</b> Use the display's native resolution for the source.

# Audio Not Working Properly

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

# 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:



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: 9600bps (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.
- The power on command requires the Power Save setting to be in Sleep Mode.

# **Command Table**

Function	Command Code (Hex)	Нех	Data Range
Power on/off(standby):STBY	21	38 30 31 73 21 30 30 30 0D	
Power on/off(standby):ON	21	38 30 31 73 21 30 30 31 0D	
Input Select:USB auto play	22	38 30 31 73 22 30 30 33 0D	
Input Select:HDMI1	22	38 30 31 73 22 30 30 34 0D	
Input Select:HDMI2	22	38 30 31 73 22 30 31 34 0D	
Input Select:HDMI3	22	38 30 31 73 22 30 32 34 0D	
Input Select:HDMI4	22	38 30 31 73 22 30 33 34 0D	
Brightness	24	38 30 31 73 24 3X 3X 3X 0D	000-100
Brightness:Bright down (-1)	24	38 30 31 73 24 39 30 30 0D	
Brightness:Bright up (+1)	24	38 30 31 73 24 39 30 31 0D	
Power lock:Unlock	34	38 30 31 73 34 30 30 30 0D	
Power lock:Lock	34	38 30 31 73 34 30 30 31 0D	
Volume	35	38 30 31 73 35 3X 3X 3X 0D	000-100
Volume:Volume down(-1)	35	38 30 31 73 35 39 30 30 0D	
Volume:Volume up(+1)	35	38 30 31 73 35 39 30 31 0D	
Mute:OFF	36	38 30 31 73 36 30 30 30 0D	
Mute:ON	36	38 30 31 73 36 30 30 31 0D	
Button lock:Unlock	38	38 30 31 73 38 30 30 30 0D	
Button lock:Lock	38	38 30 31 73 38 30 30 31 0D	
Menu lock:Unlock	3E	38 30 31 73 3E 30 30 30 0D	
Menu lock:Lock	3E	38 30 31 73 3E 30 30 31 0D	
Key Pad:UP	41	38 30 31 73 41 30 30 30 0D	
Key Pad:DOWN	41	38 30 31 73 41 30 30 31 0D	
Key Pad:LEFT	41	38 30 31 73 41 30 30 32 0D	
Key Pad:RIGHT	41	38 30 31 73 41 30 30 33 0D	
Key Pad:ENTER	41	38 30 31 73 41 30 30 34 0D	
Key Pad:INPUT	41	38 30 31 73 41 30 30 35 0D	
Key Pad:MENU/(EXIT)	41	38 30 31 73 41 30 30 36 0D	
Key Pad:EXIT	41	38 30 31 73 41 30 30 37 0D	
Key Pad:power on/off	41	38 30 31 73 41 30 30 38 0D	
Key Pad:inputlist	41	38 30 31 73 41 30 30 39 0D	
Key Pad:brightness	41	38 30 31 73 41 30 31 30 0D	
Key Pad:blank	41	38 30 31 73 41 30 31 31 0D	
Key Pad:home	41	38 30 31 73 41 30 31 32 0D	
Key Pad:volume+	41	38 30 31 73 41 30 31 33 0D	
Key Pad:volume-	41	38 30 31 73 41 30 31 34 0D	
Key Pad:next	41	38 30 31 73 41 30 31 35 0D	
Key Pad:previous	41	38 30 31 73 41 30 31 36 0D	
Key Pad:mute	41	38 30 31 73 41 30 31 37 0D	
Key Pad:play	41	38 30 31 73 41 30 31 38 0D	

Function	Command Code (Hex)	Нех	Data Range
Remote Control:Disable	42	38 30 31 73 42 30 30 30 0D	
Remote Control:Enable	42	38 30 31 73 42 30 30 31 0D	
Restore default	7E	38 30 31 73 7E 30 30 30 0D	
Input Select: Cycle	22	38 30 31 73 22 30 30 5A 0D	
Contrast	23	38 30 31 73 23 3X 3X 3X 0D	000-100
Sharpness	25	38 30 31 73 25 3X 3X 3X 0D	000-100
Color	26	38 30 31 73 26 3X 3X 3X 0D	000-100
Tint	27	38 30 31 73 27 3X 3X 3X 0D	000-100
Color mode:Normal	29	38 30 31 73 29 30 30 30 0D	
Color mode:Warm	29	38 30 31 73 29 30 30 31 0D	
Color mode:Cold	29	38 30 31 73 29 30 30 32 0D	
Color mode:Personal	29	38 30 31 73 29 30 30 33 0D	
Freeze:Off	2A	38 30 31 73 2A 30 30 30 0D	
Freeze:On	2A	38 30 31 73 2A 30 30 31 0D	
Bass	2E	38 30 31 73 2E 3X 3X 3X 0D	000-024
Treble	2F	38 30 31 73 2F 3X 3X 3X 0D	000-024
zoom mode:FULL(16:9)	31	38 30 31 73 31 30 30 30 0D	
zoom mode:NORMAL (4:3)	31	38 30 31 73 31 30 30 31 0D	
zoom mode:REAL (1:1)	31	38 30 31 73 31 30 30 32 0D	
zoom mode:21:9	31	38 30 31 73 31 30 30 33 0D	
OSD language:English	32	38 30 31 73 32 30 30 30 0D	
OSD language:French	32	38 30 31 73 32 30 30 31 0D	
OSD language:Spanish	32	38 30 31 73 32 30 30 32 0D	
OSD language:German	32	38 30 31 73 32 30 30 33 0D	
OSD language:Russian	32	38 30 31 73 32 30 30 34 0D	
OSD language:Dutch	32	38 30 31 73 32 30 30 35 0D	
OSD language:T-Chinese	32	38 30 31 73 32 30 30 36 0D	
OSD language:S-Chinese	32	38 30 31 73 32 30 30 37 0D	
OSD language:Turkish	32	38 30 31 73 32 30 30 38 0D	
OSD language:Arabic	32	38 30 31 73 32 30 30 39 0D	
PBP-Mode:Full Screen	39	38 30 31 73 39 30 30 30 0D	
PBP-Mode:Dual Screen	39	38 30 31 73 39 30 30 31 0D	
PBP-Mode:Three-part Screen	39	38 30 31 73 39 30 30 32 0D	
PBP-Mode:Quad Screen	39	38 30 31 73 39 30 30 33 0D	
PBP-Sound select:Main	3A	38 30 31 73 3A 30 30 30 0D	
PBP-Sound select:Sub	3A	38 30 31 73 3A 30 30 31 0D	
Date: Year	56	38 30 31 73 56 59 3X 3X 0D	17-99
Date: Month	56	38 30 31 73 56 4D 3X 3X 0D	01-12
Date: Day	56	38 30 31 73 56 44 3X 3X 0D	01-31
Time: Hour	57	38 30 31 73 57 48 3X 3X 0D	00-23
Time: Min	57	38 30 31 73 57 4D 3X 3X 0D	00-59

Function	Command Code (Hex)	Нех	Data Range
Time: Sec	57	38 30 31 73 57 53 3X 3X 0D	00-59
Get-Brightness	62	38 30 31 67 62 30 30 30 0D	
Get-Volume	66	38 30 31 67 66 30 30 30 0D	
Get-Mute	67	38 30 31 67 67 30 30 30 0D	
Get-Input select	6A	38 30 31 67 6A 30 30 30 0D	
Get-Power status	6C	38 30 31 67 6C 30 30 30 0D	
Get-Remote control	6E	38 30 31 67 6E 30 30 30 0D	
Get-Power lock	6F	38 30 31 67 6F 30 30 30 0D	
Get-Button lock	70	38 30 31 67 70 30 30 30 0D	
Get-Menu lock	71	38 30 31 67 71 30 30 30 0D	
Get-ACK	7A	38 30 31 67 7A 30 30 30 0D	
Get-Thermal	30	38 30 31 67 30 30 30 30 0D	
Get-Operation hour	31	38 30 31 67 31 30 30 30 0D	
Get-Device name	34	38 30 31 67 34 30 30 30 0D	
Get-MAC address	35	38 30 31 67 35 30 30 30 0D	
Get-IP address	36	38 30 31 67 36 30 30 30 0D	
Get-Serial number	37	38 30 31 67 37 30 30 30 0D	
Get-FW version	38	38 30 31 67 38 30 30 30 0D	
Get-Contrast	61	38 30 31 67 61 30 30 30 0D	
Get-Sharpness	63	38 30 31 67 63 30 30 30 0D	
Get-Color	64	38 30 31 67 64 30 30 30 0D	
Get-Tint	65	38 30 31 67 65 30 30 30 0D	
Get Freeze	69	38 30 31 67 69 30 30 30 0D	
Get-PBP mode	74	38 30 31 67 74 30 30 30 0D	
Get-Date: Year	32	38 30 31 67 32 59 30 30 0D	
Get-Date: Month	32	38 30 31 67 32 4D 30 30 0D	
Get-Date: Day	32	38 30 31 67 32 44 30 30 0D	
Get-Time: Hour	33	38 30 31 67 33 48 30 30 0D	
Get-Time: Min	33	38 30 31 67 33 4D 30 30 0D	
Get-Time: Sec	33	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)

# **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**

**CE** 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<sup>®</sup> respects the environment and is committed to working and living green. Thank you for being part of Smarter, Greener Computing. Please visit the ViewSonic<sup>®</sup> 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

- Haaksbergweg 75
  - 1101 BR Amsterdam Netherlands



- **4** +31 (0) 650608655
- EPREL@viewsoniceurope.com
- https://www.viewsonic.com/eu/

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# **Customer Service**

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

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/	
	Ame	ricas		
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/		·	

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

# **Limited Warranty**

ViewSonic<sup>®</sup> Commercial Display

#### What the warranty covers:

ViewSonic<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup>.
  - » 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<sup>®</sup> 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<sup>®</sup> service center or ViewSonic<sup>®</sup>.
- For additional information or the name of the nearest ViewSonic<sup>®</sup> service center, contact ViewSonic<sup>®</sup>.

#### 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<sup>®</sup> 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<sup>®</sup>.

## 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<sup>®</sup> products sold outside of the U.S.A. and Canada, contact ViewSonic<sup>®</sup> or your local ViewSonic<sup>®</sup> 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<sup>®</sup> Commercial Display

#### What the warranty covers:

ViewSonic<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup>'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<sup>®</sup> 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.

For Your Records	
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<sup>®</sup> service center.
- Round trip transportation costs for in-warranty products will be paid by ViewSonic<sup>®</sup>.

#### 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<sup>®</sup>'s liability is limited to the cost of repair or replacement of the product. ViewSonic<sup>®</sup> 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<sup>®</sup>.

Contact Information for Sales & Authorized Service (Centro	o 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 MéxicoTel: (55) 3605-1099 http://www.viewsonic.com/la/soporte/index.htmNÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004	
<i>Puebla, Pue. (Matriz):</i> RENTA Y DATOS, S.A. DE C.V. Domicilio: 29 SUR 721 COL. LA PAZ 72160 PUEBLA, PUE. Tel: 01(52).222.891.55.77 CON 10 LINEAS E-Mail: datos@puebla.megared.net.mx	Veracruz, Ver.: CONEXION Y DESARROLLO, S.A DE C.V. Av. Americas # 419 ENTRE PINZÓN Y ALVARADO Fracc. Reforma C.P. 91919 Tel: 01-22-91-00-31-67 E-Mail: gacosta@qplus.com.mx
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