

ViewSonic LDM163-182 All in One Direct View LED Display User Guide

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LDM163-182
All-in-One Direct View LED Display
User Guide



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LDM163-182 All in One Direct View LED Display

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

Model No. VS19934 P/N: LDM163-182

Thank you for choosing ViewSonic®

As a world-leading provider of visual solutions, ViewSonic® is dedicated to exceeding the world's expectations for technological evolution, innovation, and simplicity.

At ViewSonic®, we believe that our products have the potential to make a positive impact in the world, and we are confident that the ViewSonic® product you have chosen will serve you well.

Once again, thank you for choosing ViewSonic®!

Safety Precautions

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

- Keep this user guide in a safe place for later reference.
- · Read all warnings and follow all instructions.
- Ensure there is no direct airflow from air conditioning blowing on the display.
- Do not use the device near water. To reduce the risk of fire or electric shock, do not expose the device to
 moisture.
- · Avoid exposing the device to direct sunlight or other sources of sustained heat.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that may increase the temperature of the device to dangerous levels.
- When moving the device, be careful not to drop or bump the device on anything.
- Do not place the device on an uneven or unstable surface. The device may fall over resulting in an injury or a
 malfunction.
- Do not place any heavy objects on the device or connection cables.

- If smoke, an abnormal noise, or a strange odor is present, immediately turn the device off and call your dealer or ViewSonic®. It is dangerous to continue using the device.
- Do not attempt to circumvent the safety provisions of the polarized or grounding-type plug. A polarized plug has
 two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong.
 The wide blade and the third prong are provided for your safety. If the plug does not fit into your outlet, obtain an
 adapter and do not attempt to force the plug into the outlet.
- When connecting to a power outlet, DO NOT remove the grounding prong. Please ensure grounding prongs are NEVER REMOVED.
- Protect the power cord from being treaded upon or pinched, particularly at the plug, and at the point where it
 emerges from the equipment. Ensure that the power outlet is located near the equipment so that it is easily
 accessible.
- Only use attachments/accessories specified by the manufacturer.
- When a cart is used, use with caution when moving the cart/equipment combination to avoid injury from tipping over.
- Disconnect the power plug from the AC outlet if the device is not being used for a long period of time.
- Place the device in a well-ventilated area.
- Do not cover the surface of the display with any material.
- Do not block the air circulation around the display.
- Keep flammable materials away from the display.
- Refer all servicing to qualified service personnel. Service will be required when the unit has been damaged in any way, such as:
 - if the power supply cord or plug is damaged;
 - if liquid is spilled onto or objects fall in the unit;
 - if the unit is exposed to moisture;
 - if the unit does not operate normally or has been dropped.
- Do not assemble the display by yourself.
- This panel is an advanced product that contains millions of pixels. You may occasionally see pixel spots when viewing the screen. Since these deactivated pixels are not a defect, the performance and reliability of the product is not affected. For more information, please see page 87.

Introduction

Package Contents

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

Item	Description	Quantity	Note
Remote Control		1	
Ethernet Cable (3.5 m)		1	
IR Extension Cable (3 m)		1	
Vacuum Suction Tool (LD-MK-003)		1	
USB Thumb Drive		1	

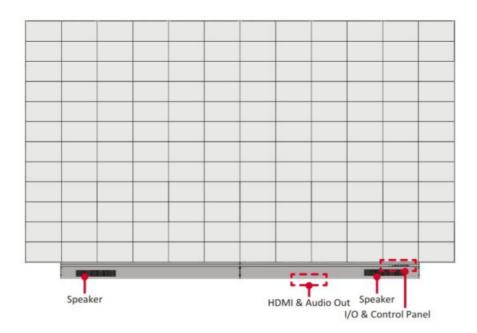
NOTE:

• This product is packed in a wooden crate.

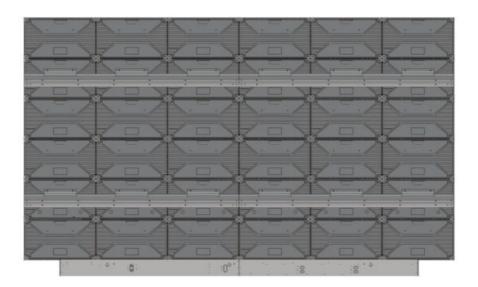
- Due to the size and weight, it is recommended that two or more people handle it.
- The base stand (trolley) is an optional accessory and sold separately.

Product Overview

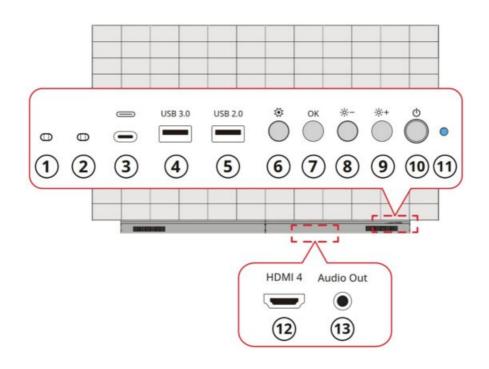
Front View



Rear View



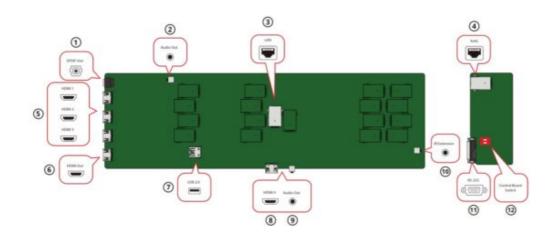
Control Panel and I/O



	Item	Description
1	Light Sensor	Ambient light sensor.
2	IR Receiver	Receiver for remote control signal.
3	USB Type C	USB 2.0 support (5V/1.0A).
4	USB 3.0	USB Reader (5V/0.9A).
5	USB 2.0	USB Reader (5V/0.5A).
6	Menu	Open the display settings or On-Screen Displa y (OSD) Menu.
7	Brightness/OK	 Brightness adjustment button. Confirm selection when the OSD Menu is open.
8	Brightness Decrease	Decrease the brightness level.
9	Brightness Increase	Increase the brightness level.
1 0	Power	Power on, standby and wake button.
1 1	Indicator Light	Power status indicator light.
1 2	HDMI 4	High definition input: PIP/PBP, connect to PC with HDMI output, set-top box, or other video device.
1 3	Audio Out	Audio output to an external audio device.

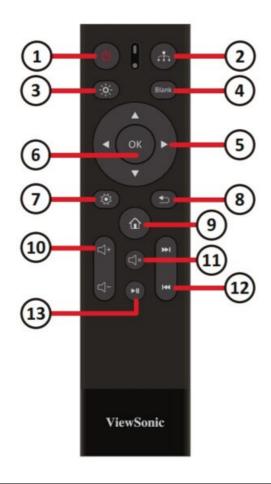
I/O Ports

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



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

Remote Control



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

Bluetooth Remote Control Pairing

To pair the remote control:

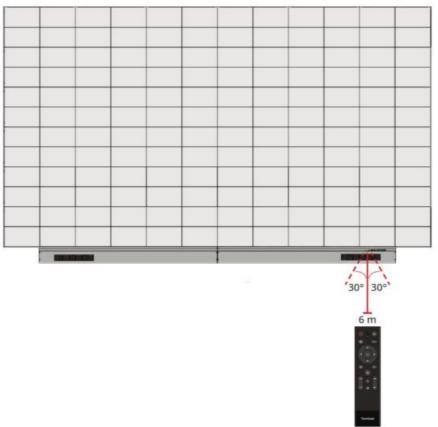
1. Make sure Bluetooth is enabled, go to: Settings > Network > Bluetooth > Enable.

- 2. Press and hold the Menu () and Return () buttons for approximately three seconds until the indicator on the remote control flashes blue.
- 3. If the pairing is successful, a pop-up message will appear on the screen.

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

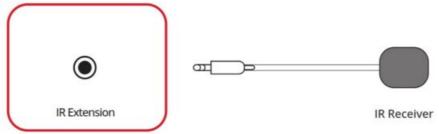
Remote Control Receiver Range

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



IR Extension

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



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

Inserting Remote Control Batteries

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

To insert batteries into the remote control:

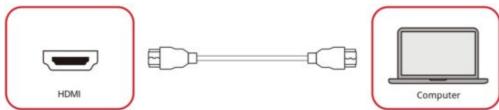
- 1. Remove the cover on the rear of the remote control.
- 2. Insert two "AAA" batteries, ensuring the positive (+) symbol on the battery matches the positive (+) symbol on the battery post.
- 3. Replace the cover by aligning it with the slot on the remote control and snapping the latch shut.

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

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

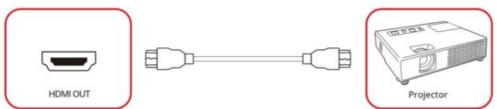
Making Connections

Connecting to Video HDMI



Connect an HDMI cable from your external device to the HDMI 1/HDMI 2/HDMI 3/HDMI 4 port on the display. **NOTE:** The HDMI 1/HDMI 2/HDMI 3 port is accessed by removing the System Control Box Cover.

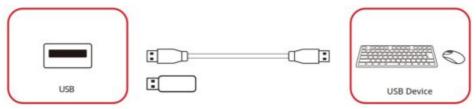
HDMI Out



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

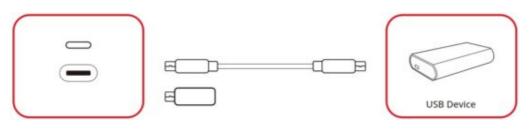
NOTE: The HDMI OUT port is accessed by removing the System Control Box Cover.

USB Connection USB Type A



Plug the USB device or storage drive into a USB Type A (USB 3.0 or USB 2.0) port on the display's control panel. **NOTE:** An additional USB Type A port can be accessed by removing the System Control Box Cover; however, it is for power transfer only (5V/0.5A).

USB Type C



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

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

Network Connection

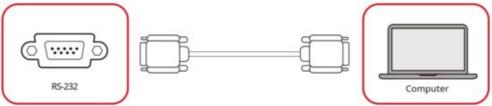
LAN



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

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

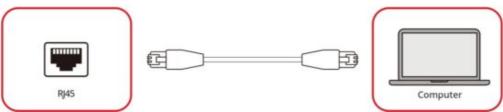
Control Connection RS-232 (DB 9-pin)



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

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

RJ45 (LAN)



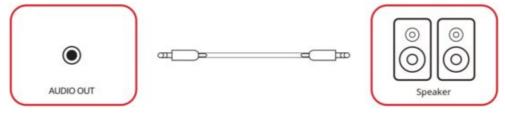
When you use an Ethernet cable to connect the display to an external computer or control system, certain functions can be controlled remotely such as: power on and off, volume adjustment, input select, brightness, and more.

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

Audio Connection

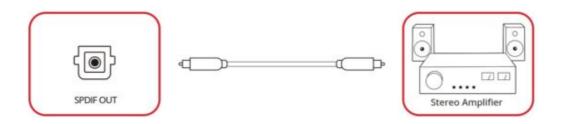
Audio Out

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



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

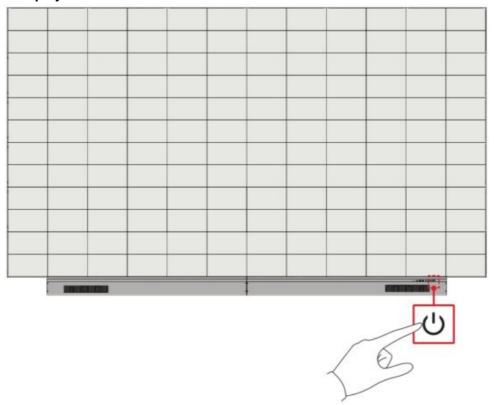
SPDIF To play audio from the display through an external speaker, connect one end of an optical cable to the external speaker, and the other end to the display's SPDIF Out port.



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

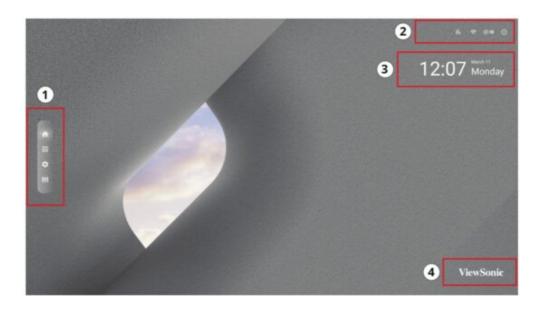
Using Your Display

Turning the LED Display On/Off



- 1. Make sure the power cord is connected and plugged into a power outlet.
- 2. Press the $\ensuremath{\boldsymbol{\mho}}$ Power button to turn on the display.
- 3. To turn the display off, press the $\ensuremath{\mathbf{U}}$ Power button again.

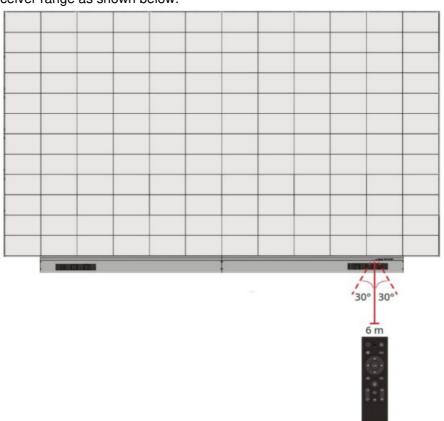
Home Screen



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 > Device > Launcher Settings
4	ViewSonic Logo	Show or hide the logo by going to: Settings > Display > Launcher Settings

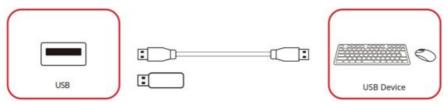
Navigating the Home Screen Remote Control

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

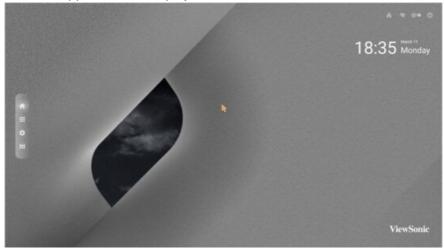


Keyboard and Mouse

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



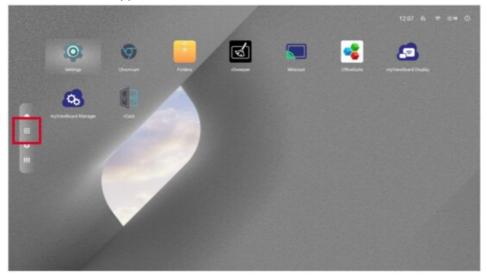
An orange mouse pointer will appear on the display when used.



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

App Center

Installed applications will be in the App Center.



Icon	Name	Description
0	Settings	Adjust and view the display's settings.
9	Chromium	Web browser.
	Folders	File explorer.
	vSweeper	Resource management tool.
	Miracast	Wireless screen mirroring.
	OfficeSuite	Create documents, spreadsheets, and presentations.
	myViewBoard Display	Wirelessly mirror your desktop.
Qb	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, Physica I Keyboard, Input method, and Launcher settings.
System	View and adjust Date & Time and About settings.

Settings Menu Tree

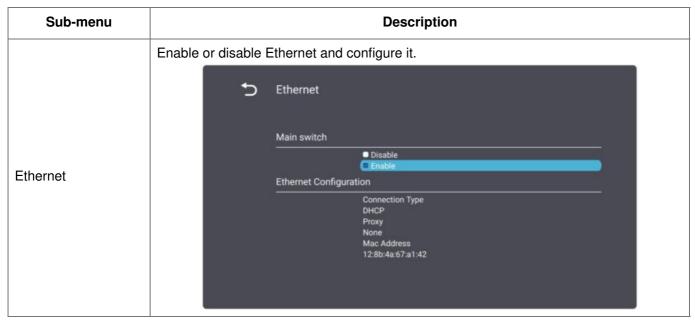
Main Menu	Sub-menu	Menu Option	
		Main Switch	Disable
	Ethernet	Main Switch	Enable
	Ethernet	Ethernet Configuration	Connection Type
			Mac Address
		Disable	
	Wi-Fi	Enable	
	*****	Add Wi-Fi	

Network			Disable
		Main Switch	Enable
	Wireless Hotspot		Network Name
		Hotspot Configuration	Security Type
			Disable
	Bluetooth	Bluetooth	Enable
		Available Device	
		Main Cuitale	Disable
	Miracast	Main Switch	Enable
		Detail	Name
			Shutdown
	Dehumidification	Dehumidification	Low
Dehumidification	Settings	Level	Middle
Service			High
	Begin Dehumidification Now		
		0 10 "	Signage Display Name
		General Settings	Boot Logo
		Source Settings	Custom App
			Trusted Credentials
		Cradential Cottings	User Credentials
	Signage Display	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
	System Tools		

Device		Import & Export	Export Signage Display Settings
			Import Signage Display Settings
		Clone	Clone Media Files
	Dianlay	Font Size	
	Display	Screen Saver	
		Running	
	Apps	All	
		Download	
	Physical Keyboard		
		View Conin Lane	On
		ViewSonic Logo	Off
	Launcher Settings	Date & Time	On
			Off
		Theme	
	Input Method		
	Date & Time	Select Time Zone	
	Date & Time	NW Server	
		Local System Updates	
		Online System Updates	
System		Asset Tagging	
	About	Legal Information	
		Android Version	
		Kernel Version	
		Build Number	
		Operation Hours	

Network



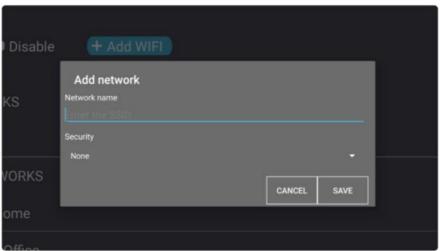


Open the Wi-Fi selection interface to enable or disable Wi-Fi and connect to a Wi-Fi net work.



Wi-Fi

You can also select Add Network in the Wi-Fi selection screen to manually add a Wi-Fi network.



Enable or disable Wireless Hotspot. Once enabled, the hotspot name will be displayed and can be connected to.

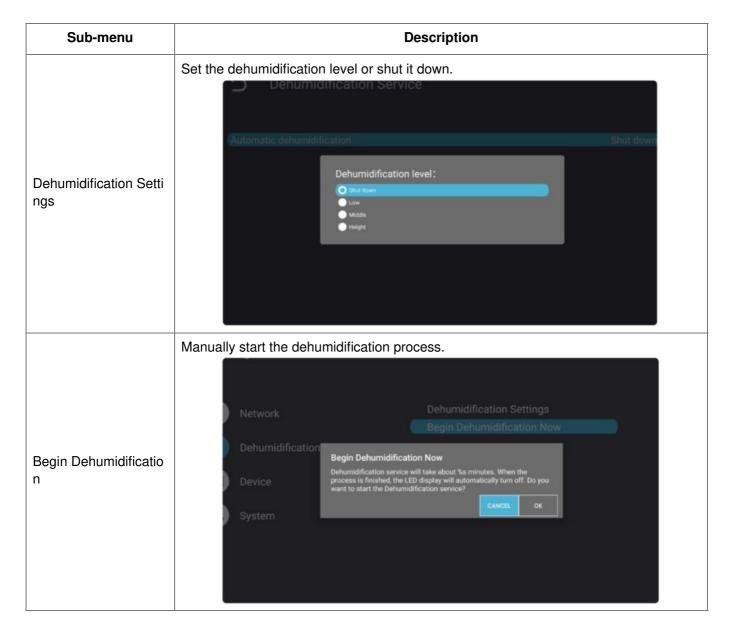


Wireless Hotspot

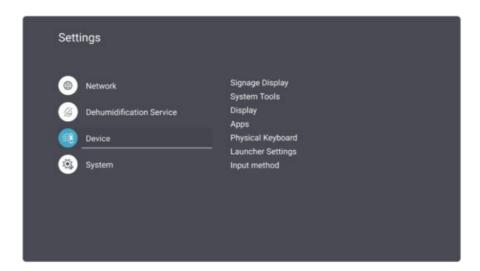
Enable or disable Bluetooth. Once enabled, available devices will be displayed and can be connected to. Bluetooth Bluetooth Disable
Enable Bluetooth NOTE: The volume of a connected Bluetooth speaker cannot be adjusted with the remot e control. Enable or disable Miracast. Miracast Main switch Miracast Detail Name:LDM136-151-CLxa

Dehumidification Service

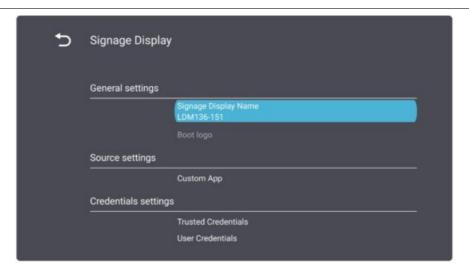




Device



	Sub-menu	Description	
--	----------	-------------	--



Signage Display

General Settings

Set the Signage Display Name and Boot Logo.

Source Settings

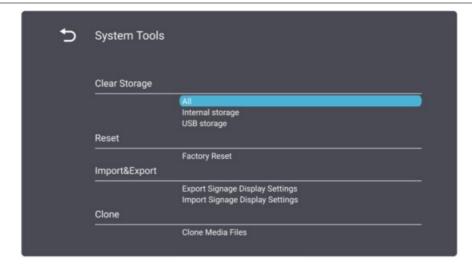
Set the application to open when the Custom input source is selected.

Credential Settings

View and clear credentials and install from storage.

Security

Review privacy and copyright protections, allow external USB storage and installing applications from unknown sources.



System Tools

Clear Storage

Clear storage space from both internal and external storage.

Reset

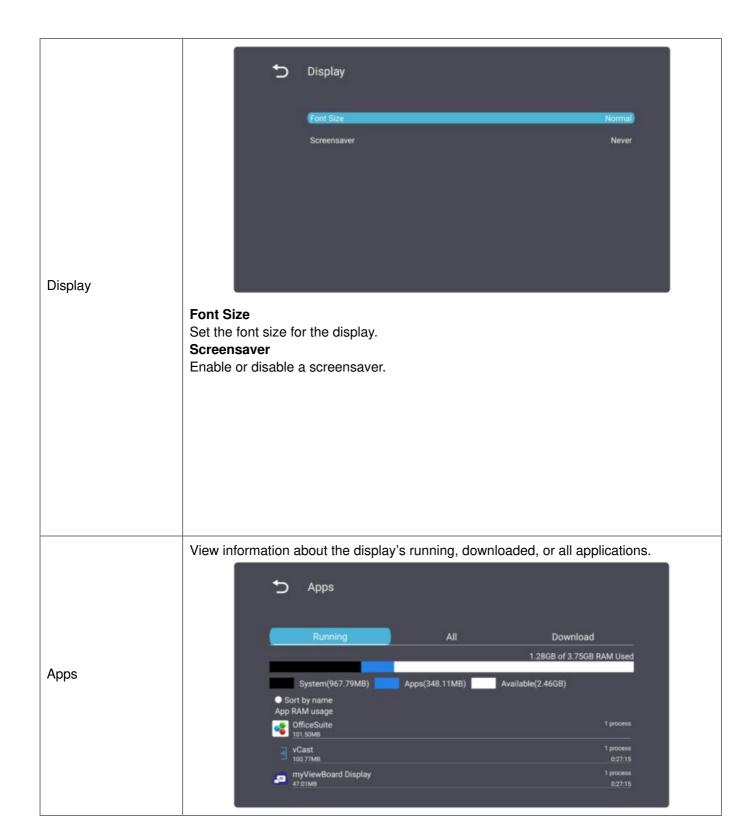
Reset the display to its default factory values.

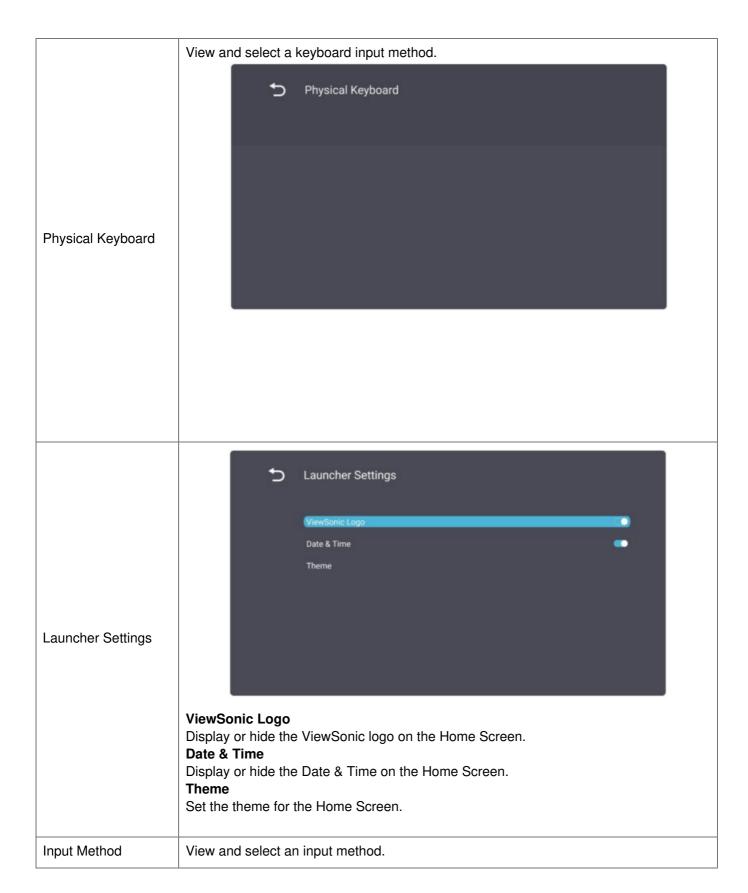
Import & Export

Import or export the display's settings.

Clone

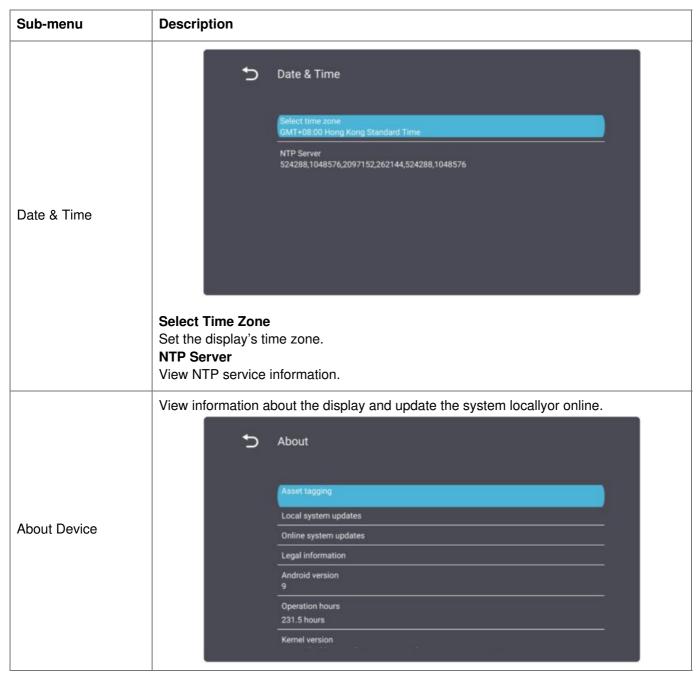
Copy media files from the display.





System





On-Screen Display (OSD) Menu

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

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



To open and operate the OSD Menu:

- 1. Press the MENU () button on the remote control.
- 2. Press ▼/▲/◄/► 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)
	Color Temperature	Warm
		Normal
		Cool
		User
	Picture Mode	Normal
		Dynamic
Picture		Soft
		User
		Full Range
	RGB Range	Limited Range

		Auto	
		Auto	
	Blue Light Filter	(-/+, 0~100)	
		Native	
	Gamma Set	2.2	
		2.4	
	Picture Reset	Cancel	
	i icture rieset	Reset	
		Full	
	Za ara Ma da	Real	
	Zoom Mode	Dynamic	
Screen		21:9	
		Cancel	
	Screen Reset	Reset	
		Full Screen	
		Dual Screen	
	PBP Mode	Three-part Screen	
		Center Screen	
PBP		Quad Screen	
	PBP Source		
	PBP Audio		
	PBP Reset		
		Top Left	
		Top Right	
	PIP Mode	Bottom Left	
		Bottom Right	
PIP	PicMain		
	PicSub		
	PIP Audio		
	PIP Reset		
	Treble	(-/+, 0~24)	
	Bass	(-/+, 0~24)	
	Volume	(-/+, 0~100)	
	Maximum Volume	(-/+, 0~100)	
	(71, 0 100)		

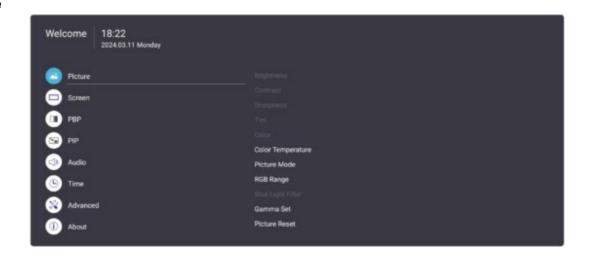
	Minimum Volume	(-/+, 0~99)		
Audio		Off	Off	
	Mute	On		
		Speaker		
	Volume Control	SPDIF		
		Headset		
	Audia Dasat	Cancel		
	Audio Reset	Reset		
	Off Time	Off		
	Oil Tille	(10 mins~240 mins)		
		Use Network-Provided Tin	пе	
	Date and Time	Set Date Format		
	Date and Time	Choose Time Zone		
		Use 24-hour Format	Use 24-hour Format	
		Schedule List		
		Enable	Enable	
		Start Time	Start Time	
Time	Schedule	End Time	End Time	
Time		Input		
		Day of the Week	Day of the Week	
		Every Week		
	Slideshow Interval	(1s/3s/5s/10s/15s/20s/25s/30s)		
	OSD Turn Off	Off	Off	
	OGB Tulli Oli	(5~120 seconds)		
	Information OSD	Off	Off	
		(1~60 seconds)	(1~60 seconds)	
	Time Reset	Cancel	Cancel	
	Time Hoset	Reset		
		Panel Saving	Off	
		· · · · · · · · · · · · · · · · ·	On	
		Power Save	Sleep	
	Saving		Hibernate	
			Off	
		Light Sensing		

			On
		Boot On Source	Last Source
			Input
			ViewSonic
	Boot	Boot On Logo	Blue
			Black
Advanced			Custom
Auvanceu		Auto Signal Detection	Off
	Signal		On
		No Signal Standby	(Off/0 min/5 min/15 min/30 min)
		HDMI with One Wire	Off
		TIDINI WILLI OLE WILE	On
			1.4
		HDMI Version	2.0
	Port		Auto
		USB Cloning	Import
		COB Clothing	Export
		USB Auto Play	Off
			On
	Other	Switch On State	Power Off
			Last Status
			Forced On
			English
			French
			Spanish
			German
Advanced		Language	Russian
			Dutch
			Traditional Chinese
			Simplified Chinese
			Turkish
			Arabic
			Cancel

		Factory Reset	Reset
		Advanced Reset	Cancel
		Advanced Neset	Reset
	Heat Status	xx° C / xx° F	
	Monitor Information	Model Name	
About		Serial No.	
		Operation Hours	
		SW Version	

Menu Options

Picture



- 1. Press the MENU () button on the remote control to display the OSD Menu.
- 2. 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 ◀/▶ 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 pictur e 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 green ish the image becomes. The lower the value, the more reddish the image becomes .
Color	Adjust the amount of color in the on-screen image.
Color Temperature	Set how color appears on screen using the Kelvin scale.
Picture Mode	Select the mode that best fits the display's environment.
RGB Range	Select from Full Range (black and white levels are full [0~255]), Limited Range (Black and white levels are limited [16~235]), or Auto.
Blue Light Filter	Block high-energy blue light for a more comfortable viewing experience.
Gamma Set	Manually adjust the brightness level of the monitor's grayscale levels.
Picture Reset	Reset the Picture settings to their default values.

Screen



- 1. Press the MENU () button on the remote control to display the OSD Menu.
- 2. Then press OK or use ▼/▲/◄/▶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.

NOTE: Some sub-menu options may have another sub-menu layer.

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

PBP (Picture-by-Picture)



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

NOTE:Some sub-menu options may have another sub-menu layer.

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

PIP (Picture-in-Picture)



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

NOTE: Some sub-menu options may have another sub-menu layer.

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

Audio



- 1. Press the MENU () button on the remote control to display the OSD Menu.
- 2. Then press OK or use ▼/▲/◄/▶on the remote control to select the Audio menu.

3. Press ▼/▲ to select the menu option. Then press OK to display its sub-menu, or press ◀/▶ to adjust/select the setting.

NOTE: Some sub-menu options may have another sub-menu layer.

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

Time



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

NOTE: Some sub-menu options may have another sub-menu layer.

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 sc reen.
Time Reset	Reset the Time settings to their default values.

Advanced



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

About



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

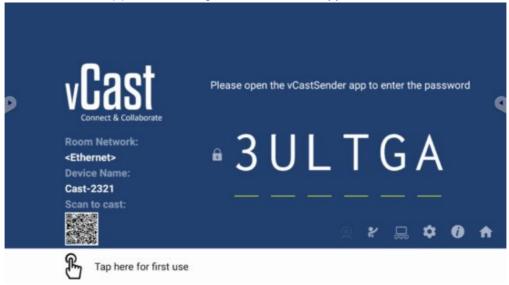
NOTE: Some sub-menu options may have another sub-menu layer.

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

Pre-installed Applications

vCast

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



Network Information

• ViewBoard® Cast software, laptops, and mobile devices can connect to both the same subnet and cross subnet

by entering the on-screen PIN code.

- Connected devices will show up under Device List on the same subnet connection.
- If the device does not show up under Device List, users will need to key-in the on-screen PIN code.

Ports:

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

Port and DNS for Activation:

• Port: 443

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

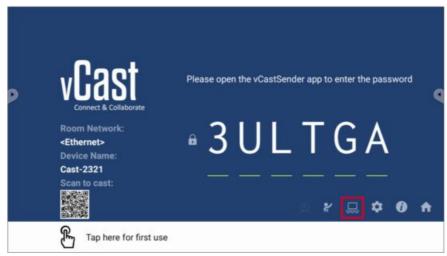
OTA Service

• Server Port: TCP 443

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

Display Group Settings

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

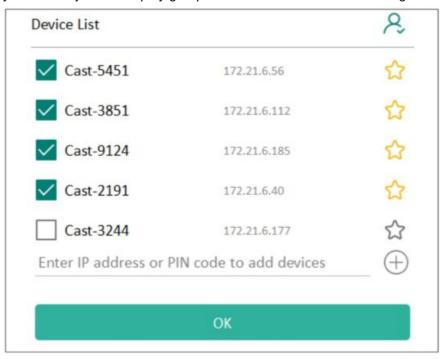


1. Toggle the "Turn On/Off Display Group" ON to enable the Display Group feature.



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

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

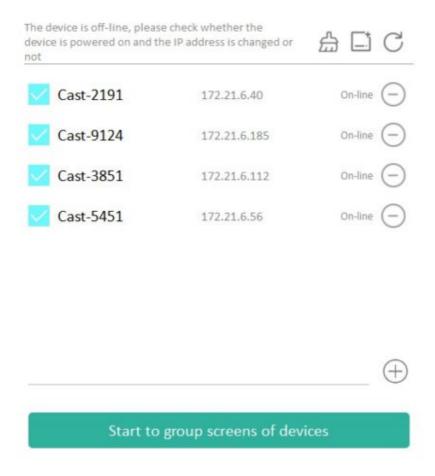


NOTE:

- If the devices you want to group are not listed, you can enter their respective IP address or connecting PIN code.
- The Display Group maximum device limit is six devices.
- 3. If you frequently connect to the same device, you can select the Star icon () next to the device to add it to your frequently connected devices list, "My List of Devices in Group", for easier Display Group setup and management.

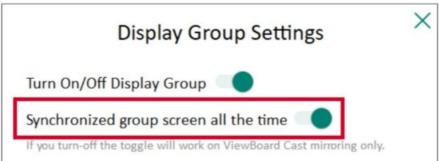


My list of devices in group



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.

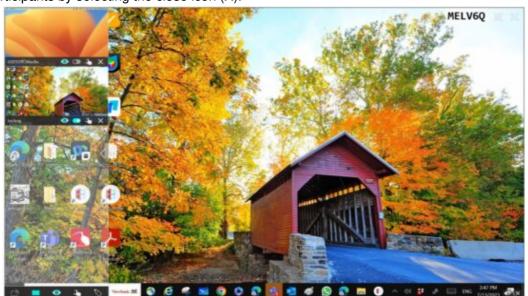


Moderator Mode

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.

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.

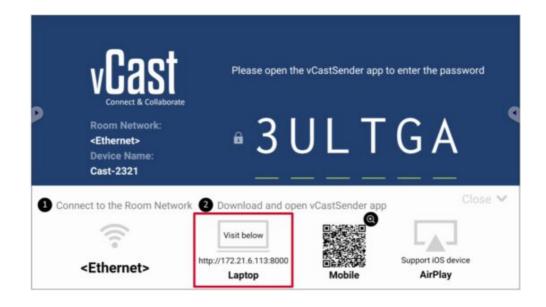


By default, participants can use touch for collaboration after connecting. The moderator can enable/disable the touch function of a participant by selecting the Touch icon in their window.

NOTE:

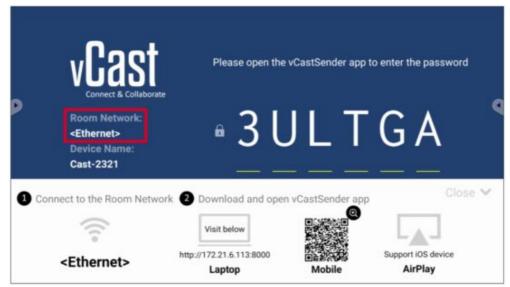
- Moderator Mode is supported on all vCastSender and AirPlay devices, but mobile devices are limited to a "preview" function. Additionally, mobile Android devices cannot cast sound out.
- When you cast your Windows/Mac/Chrome screen to the display, the selected full screen unit will not be broadcasted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

Casting from Windows, MacBook, and Chrome Devices



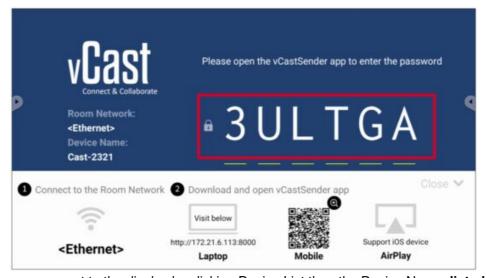
1. Ensure the client device (e.g., laptop) is connected to the same network as the display.

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



- 2. On the client device, visit the address that is shown on the display to download and install the vCastSender application.
- 3. After installing, launch the vCastSender application.
- 4. To connect to the display, input the PIN code and click OK.

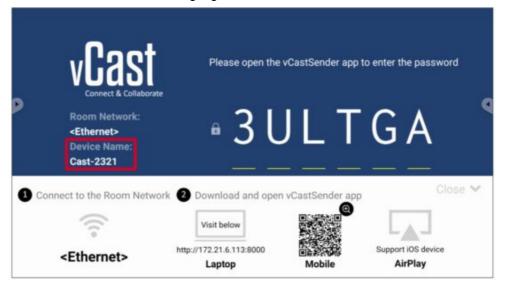
NOTE: The PIN code can be found as highlighted below:



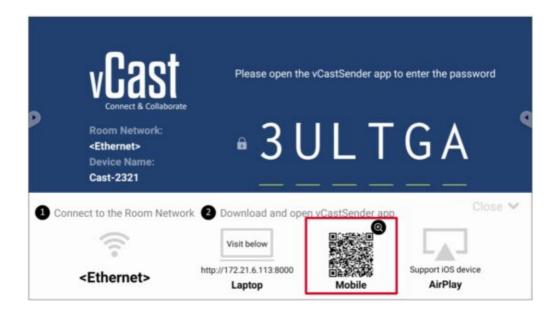
5. Additionally, you can connect to the display by clicking Device List then the Device Name listed.



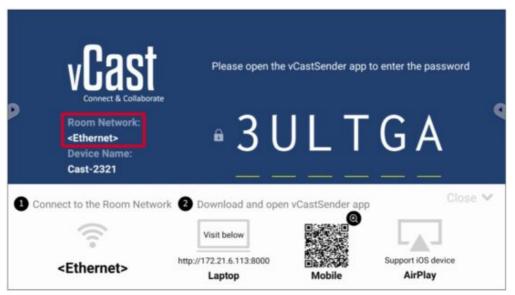
NOTE: The Device Name can be found as highlighted below:



Casting from Android Devices



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

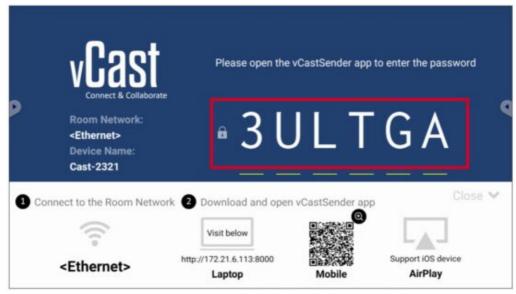


2. On the Android client device, scan the QR code shown on the display to directly download the vCastSender application, or download the application from the Google Play Store.

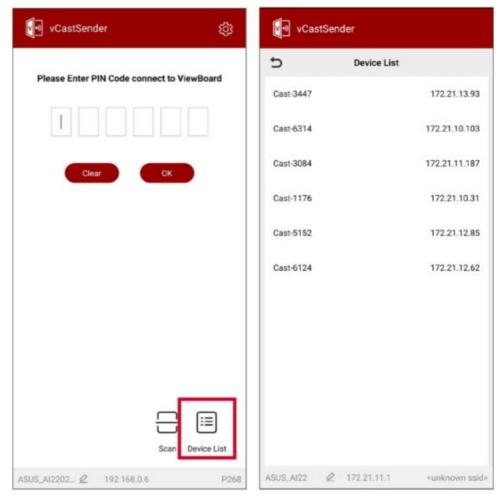


- 3. After installing, launch the vCastSender application.
- 4. To connect to the display, input the PIN code and select OK.

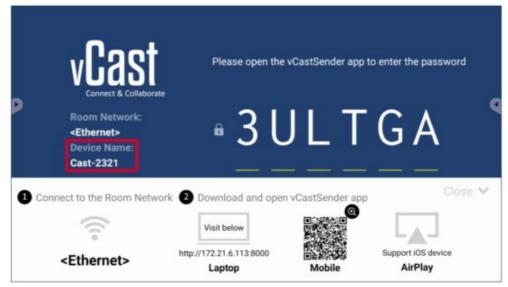
NOTE: The PIN code can be found as highlighted below:



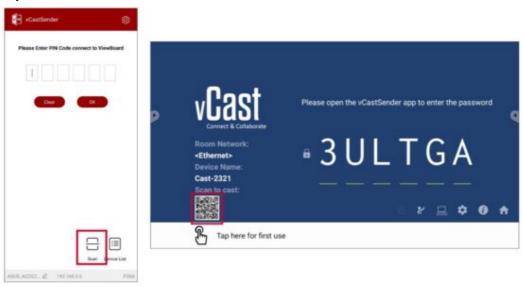
5. You can also connect to the display by selecting Device List then the Device Name listed.



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

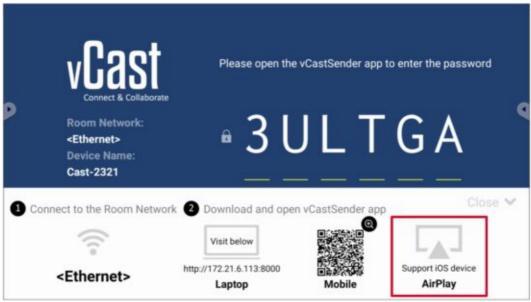


6. Additionally, you can connect to the display by selecting Scan then placing the on-screen QR code into the box to automatically connect.



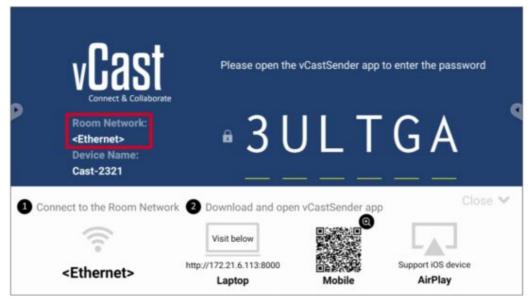
Casting from Apple iOS Devices

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



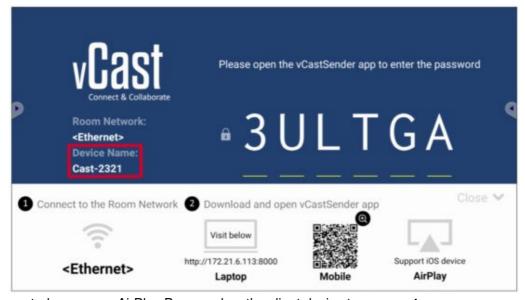
1. Ensure the client device (e.g., iPhone or iPad) is connected to the same network as the display.

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



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

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



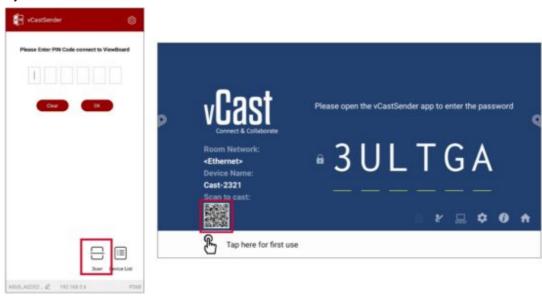
3. Input the generated on-screen AirPlay Password on the client device to connect.



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

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

automatically connect.



Connecting to a ViewBoard from a Mobile Device

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

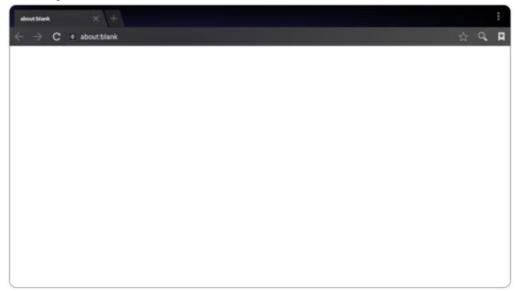


Item Description		Description	
>	Toggle	Hide or display the toolbar.	
	Home	Return to the Home interface.	
\leftarrow	Return	Return to the previous operation.	
7	Folder	View or open the mobile device's files.	
	Share	Cast the mobile device's screen to the connected display.	
₽	Touch	Remotely control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

Other Default Applications

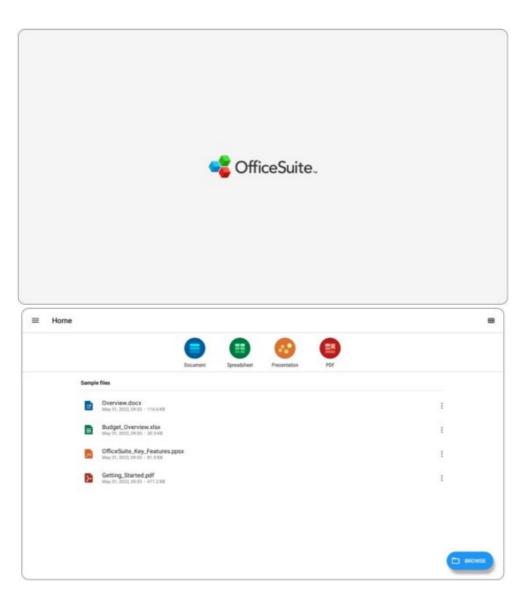
Browser

Web browser for surfing the Internet.



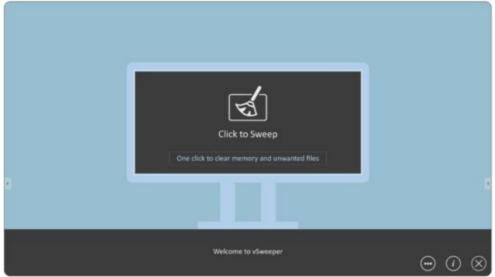
OfficeSuite

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



vSweeper

Remove unnecessary data and unwanted files.



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

Main Preference Clear all Auto clear all junk files when the app starts	Auto Clear Interval	
Exit after clearing Exit after the clear button is clicked and the clean up has completed Auto Clear Auto clear interval	O No auto clear I hour I hour I hours I hours I hours	O 1 day O 2 days O 1 week
Automatically clear all caches Autoclear on boot Automaticaly clear caches on system startup		
Advanced Settings		⊙ ∅ ⊗

Appendix

Specifications

Item	Category	Specifications	
Model		LDM163-181	
	Туре	Direct View LED Display	
	Size	163"	
	Active Cine (II v.)()	3,600 mm x 2,025 mm	
	Active Size (H x V)	141.73" x 79.72"	
LED Screen	Pitch Size	1.87 mm	
LED Screen	Resolution	FHD, 1920 x 1080	
	Refresh Frequency	3840 Hz	
	Contrast Ratio	6500:1 (Typical)	
	Brightness	100-600 cd/m2 (100 levels of adjustment)	
	LED Lifespan	100,000 hours	
		4 x HDMI (v. 2.0; HDCP 2.2)	
		1 x USB Type A (2.0)	
		1 x USB Type A (3.0)	
		1 x LAN (RJ45)	
Input Signal		1 x IR in	
input digital		1 x USB Type C (data only)	
		1 x RS-232 (for control)	
		1 x RJ45 (for LAN control)	

I	1		T		
		1 x	Wi-Fi Input (2.4 G/5 G Hz)		
		1 x	HDMI Out		
Output Signal		2 x	Audio Out (1 x 3.5 mm internal; 1 x 3.5 mm exter nal)		
		1 x	USB Type A (Shared) [5V/2A]		
Speaker Output		2 x 3	0W		
RS-232		RS-2	32 Serial Control		
Power	Voltage	220-2	120V/30A ~ 50/60Hz 240V/15A ~ 50Hz vary by country)		
	Altitude	≤ 5,0	00 m		
	Ailliude	≤ 16,	404 ft		
Operating Conditions	Relative Humidity	10%	~80% non-condensing		
	Taman awatuwa	0° C	to 40° C		
	Temperature	32° F	to 104° F		
	Altitudo	≤ 5,0	00 m		
	Altitude	≤ 16,	≤ 16,404 ft		
Storage Conditions	Relative Humidity	10%	10%~85% non-condensing		
	Temperature	-10°	-10° C to 60° C		
		14° F	to 140° F		
	Without Wall Mount	3,612	2 x 2,171 x 31 mm		
	Without Wall Mount	142.2	20" x 85.47" x 1.22"		
	With Wall Mount	3,612	3,612 x 2,171 x 53 mm		
Physical Dimensions (With Wall Mount	142.2	20" x 85.47" x 2.08"		
W x H x D)	Mile Deal Mayor	3,612	2 x 2,171 x 91 mm		
	With Back Mount	142.2	142.20" x 85.47" x 3.58"		
	Mile Trallan	3,612	3,612 x 2,845.3 x 872.8 mm		
	With Trolley	142.2	20" x 112.02" x 34.33"		
	NACH A NACH NA A	227 k	sg		
	Without Wall Mount	456.3	35 lbs		
	With Wall Mount	251 k	sg		
		509.2	26 lbs		
Weight	With Back Mount	272 k	sg		
		555.5	56 lbs		

	With Trolley	239 kg
		526.90 lbs
Power Consumption	On	918W (Normal) 2624W (Max)
	Off	< 0.5W

NOTE: Product specifications are subject to change without notice.

Timing Chart HDMI (PC)

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

HDMI (Video)

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

NOTE:

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

Supported Media Formats

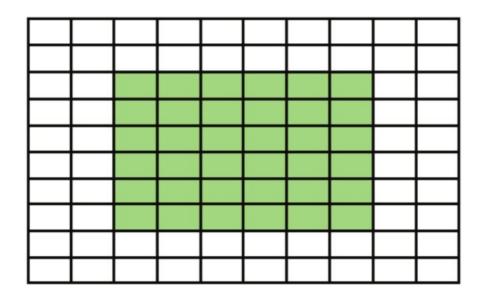
Туре	File Type	Codec	Ability
	.jpeg	JFIF file format 1.02	Max Resolution: 8176 x 8176 Min Resolution: 48 x 48
	.jpg	JFIF file format 1.02	Max Resolution: 8176 x 8176 Min Resolution: 48 x 48
Photo	.bmp	ВМР	Max Resolution: 8176 x 8176Min Resolution: 48 x 49
	.gif	GIF	Max Resolution: 8176 x 8176 Min Resolution: 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 kbpsSampli ng rate: 8 kHz~48 kHz Non-support WMA Pro, lossless and MBR
Audio	.wav	MS-ADPCM, IMA- AD PCM, PCM	Sampling rate: 8 kHz~48 kHzSupp ort 4 bit MS-ADPCM, IMA-ADPCM
	.flac	Compress Level 0~8	Sampling rate: 8 kHz~48 kHz
	.aac\.m4a	ADIF ,ATDS Header A AC-LC and AAC-HE, A AC-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 108 0 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 (17 6 x 144), CIF (352 x 288), 4CIF (704 x 576) Maximum Frame Rate: 30 fps Maximum Bit Rate: 3 8.4 Mbps Not supported: H.263+
		H.264	Supported Image Size: 48 x 48 pixels to 4096 x 230 4 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Cod ing Supported: MBAFF
	.asf	VC-1	Supported Image Size: 48 x 48 pixels to 1920 x 108 0 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 45 Mbps
		MPEG4	Supported Image Size: 48 x 48 pixels to 1920 x 108 0 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 Cod ing 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

		JPEG	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps
	.dat	MPEG-1/2	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 8 0 Mbps Supported: Field Coding
	.flv	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 Coing Supported: MBAFF
		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 23/4 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
Video	Video .mkv	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 pixelsMaximum 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

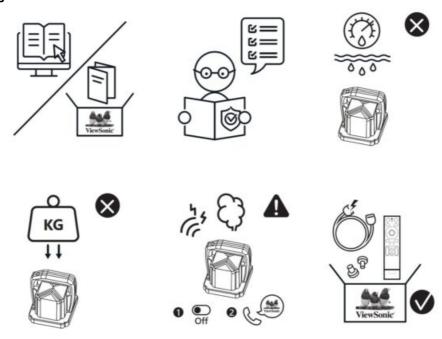
	.mov	MPEG4	Supported Image Size: 48 x 48 pixels to 1920 x 1080 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: MS MPEG4 v1, v2, v3 Not supported: GMC
		H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Cod ing Supported: MBAFF
		H.265/HEVC	Supported Image Size: 64 x 64 pixels to 4096 x 230 4 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 (17 6 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+
	.mp4	MPEG4	Supported Image Size: 48 x 48 pixels to 1920 x 108 0 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps Not supported: MS MPEG4 v1, v2, v3 Not supported: GMC
	.mp5	H.264	Supported Image Size: 48 x 48 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 30 fps, 1080p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Field Coding Supported: MBAFF
	.mp6	H.265/HEVC	Supported Image Size: 64 x 64 pixels to 4096 x 2304 pixels Maximum Frame Rate: 2304p @ 60 fps Maximum Bit Rate: 100 Mbps Supported: Main Profile & Main10 Profile Supported: Tile & SLIC
	.mp7	H.263	Supported Image Size: SQCIF (128 x 96), QCIF(17 6 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 108 0 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 80 Mbps Supported: Field Coding

Video	.ts	MPEG-1/2	Supported Image Size: 48 x 48 pixels to 1920 x 108 0 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
		H.264 MVC	Supported Image Size: 48 x 48 pixels to 4096 x 230 4 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 230 4 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 108 0 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 108 0 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 80 Mbps Supported: Field Coding
	.webm	VP8	Supported Image Size: 48 x 48 pixels to 1920 x 108 0 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 38.4 Mbps
	.webiii	VP9	Supported Image Size: 48 x 48 pixels to 4096 x 230 4 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 108 0 pixels Maximum Frame Rate: 30 fps Maximum Bit Rate: 45 Mbps

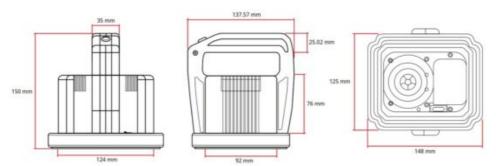


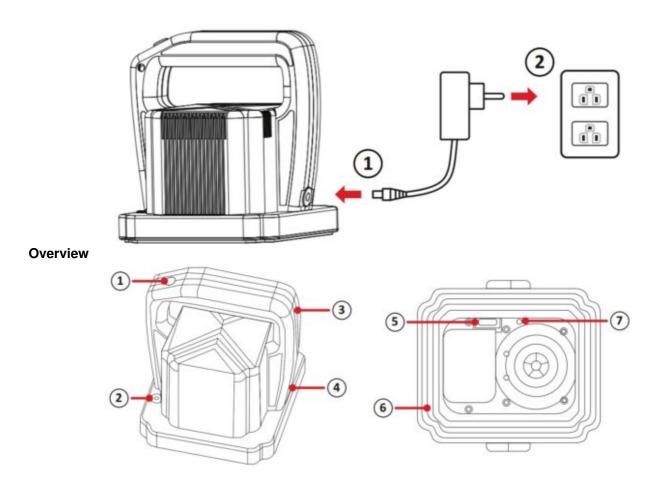
Item	Acceptance Criteria
Stuck Pixel (whole display)	≤ 60 stuck pixels
Stuck Pixel (as marked in green)	≤ 15 stuck pixels
Stuck Pixel (Single Module)	≤ 6 stuck pixels

Maintenance Tools Vacuum Suction Tool (LED Module Maintenance Tool) Safety Precautions



Dimensions



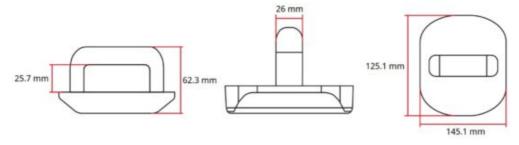


Number	Item	Description	
1	Start Button	Start or stop the suction force.	
2	Regulating Valve	Adjust the suction force level.	
3	Handle	Pick up and hold the tool from here.	
4	Charging Port	Port for charging the battery.	
5	Power Switch	Turn the tool on or off.	
6	LED Module Contact Silic one	Soft contact surface for removing the LED modules.	
7	Power Display	Indicates how much battery power is remaining.	

Specifications

Item	Description	
Model	LD-MK-003	
Product Dimension	148 x 125 x 150 mm	
Troduct Dimension	5.83" x 4.92" x 5.91"	
Weight	0.9 kg	
vveignt	1.98 lbs	
Working Duration	18 minutes	
Operating Relative Humidity	15%~85% (non-condensing)	
Operating Temperature	-20° C to 45° C	
Operating reinperature	-4° F to 113° F	

System Control Box Maintenance Tool Dimensions



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

Troubleshooting General

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

Video Not Working Properly

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

Audio Not Working Properly

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

Maintenance General Precautions

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

Initial Operation

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

Front Panel Cleaning Instructions

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

Cabinet Cleaning Instructions

• Do not allow water or detergent to come into contact with the surface of the display. If water or moisture gets inside the unit, a system malfunction or electrical shock may occur.

- Do not scratch and do not put pressure on the cabinet with any abrasive objects of any kind.
- Do not use volatile substances such as sprays, solvents, or thinners on the cabinet.
- Do not place anything made from rubber or PVC near the cabinet for any extended periods of time.

Regular Use

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

RS-232 Protocol

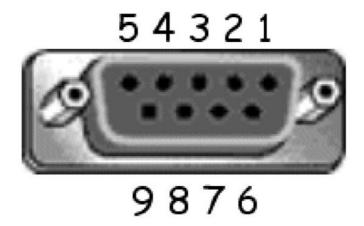
This document describes the hardware interface and software protocols of RS-232 interface communication between the ViewSonic LED Display and computers or other control units with RS-232 protocol.

Description

RS-232 Hardware Specification

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

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



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. **Command Table**

Function	Command Code (H ex)	Hex	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	
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
ime: Min	57	38 30 31 73 57 4D 3X 3X 0D	00-59
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.

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.

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.

CE Conformity for European Countries

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

The following information is only for EU-member states:

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

Declaration of RoHS2 Compliance

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

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

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

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

European Union Regulatory Conformance

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

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

Indian Restriction of Hazardous Substances

Restriction on Hazardous Substances statement (India). This product complies with the "India E-waste Rule 2011" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl

ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

Product Disposal at End of Product Life

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

USA & Canada:

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

Europe:

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

Taiwan:

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

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



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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.

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

Country/ Region	Website	Country/ Region	Website
Asia Pacific & Africa			
Australia	www.viewsonic.com/au/	Bangladesh	www.viewsonic.com/bd/
(China)	www.viewsonic.com.cn		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/
(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/
(Taiwan)	www.viewsonic.com/tw/		www.viewsonic.com/th/
Việt Nam	www.viewsonic.com/vn/	South Africa & Mauritius	www.viewsonic.com/za/
	Amer	icas	
United States	www.viewsonic.com/us	Canada	www.viewsonic.com/us
Latin America	www.viewsonic.com/la		
Europe			
Europe	www.viewsonic.com/eu/	France	www.viewsonic.com/fr/
Deutschland	www.viewsonic.com/de/	Қазақстан	www.viewsonic.com/kz/
Россия	www.viewsonic.com/ru/	España	www.viewsonic.com/es/
Türkiye	www.viewsonic.com/tr/	Україна	www.viewsonic.com/ua/
United Kingdom	www.viewsonic.com/uk/		

Limited Warranty

ViewSonic® Commercial Display

What the warranty covers:

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

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

- Any product on which the serial number has been defaced, modified, or removed.
- Damage, deterioration, or malfunction resulting from:
 - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - Repair or attempted repair by anyone not authorized by ViewSonic®.
 - Damage to or loss of any programs, data, or removable storage media.
 - Normal wear and tear.
 - Removal or installation of the product.
- Software or data loss occurring during repair or replacement.
- Any damage of the product due to shipment.
- Causes external to the product, such as electric power fluctuations or failure.
- Use of supplies or parts not meeting ViewSonic's specifications.
- Failure of owner to perform periodic product maintenance as stated in the User Guide.
- Any other cause which does not relate to a product defect.
- Damage caused by static (non-moving) images displayed for lengthy periods of time (also referred to as image burn-in).
- Software Any third-party software included with the product or installed by the customer.
- Hardware/Accessories/Parts/Components Installation of any unauthorized hardware, accessories, consumable parts or components (e.g. Projector Lamps).
- Damage to, or abuse of, the coating on the surface of the display through inappropriate cleaning as described in the product User Guide.
- Removal, installation, and set-up service charges, including wall-mounting of the product.

How to get service:

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

Limitation of implied warranties:

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

Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product.

ViewSonic® shall not be liable for:

Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of
use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with
business relationships, or other commercial loss, even if advised of the possibility of such damages.

- Any other damages, whether incidental, consequential or otherwise.
- Any claim against the customer by any other party.
- Repair or attempted repair by anyone not authorized by ViewSonic®.

Effect of state law:

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

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

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

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

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

Mexico Limited Warranty

ViewSonic® Commercial Display

What the warranty covers:

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

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

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

How to get service:

For Your Records

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

Product Name:	
Model Number:	
Document Number:	
Serial Number:	
Purchase Date:	
Extended Warranty Purchase? (Y/N)	

If so, what date does warranty expire?.....

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

Exclusion of damages:

ViewSonic®'s liability is limited to the cost of repair or replacement of the product.

ViewSonic® shall not be liable for:

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

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.

Contact Information for Sales & Authorized Service (Centro Autorizado de Servicio) within Mexico:

Name, address, of manufacturer and importers:

México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas, Col. San Fernando Huixquilucan, E stado de México

Tel: (55) 3605-1099 http://www.viewsonic.com/la/soporte/index.htm

NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004

Hermosillo:

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E-Mail: disc2@hmo.megared.net.mx

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Tijuana, Mexico

Villahermosa:

Compumantenimietnos Garantizados, S.A. de C.V. AV. GREGORIO MENDEZ #1504

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E-Mail: aquevedo@compusupportcva.com

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Tel: 01(52)33-36-15-15-43

E-Mail: mmiranda@servicrece.com

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Oaxaca, Oax.:

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Fax: 01(52)95-15-13-67-00

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00-688-6688

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



Smart White Board Warranty Term Template In UG VSC_TEMP_2013

Documents / Resources



<u>ViewSonic LDM163-182 All in One Direct View LED Display</u> [pdf] User Guide VS19934, LDM163-182, LDM163-182 All in One Direct View LED Display, LDM163-182, All in One Direct View LED Display, Direct View LED Display

References

- ViewSonic
- <u>ViewSonic Europe | ViewBoards, Monitors, and Visual Solutions</u>
- <u>*</u>_____, LCD ..., LCD ..., ...
- ViewSonic
- <u>ViewSonic Ukraine | ViewBoards, Monitors, and Visual Solutions</u>
- W ViewSonic
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- O<u>vcastactivate.viewsonic.com</u>
- WiewSonic Europe | ViewBoards, Monitors, and Visual Solutions
- User Manual

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