

LDC027G Series

LDC031G 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® 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. VS20723 | VS20725 | VS20727 | VS20721 | VS20722 | VS20724 | VS20726 | VS20729 | VS20730 |
VS20731 | VS20732 | VS20735 | VS20925 | VS20926
P/N: LDC027G-121 | LDC027G-151 | LDC027G-181 | LDC027G-071C | LDC027G-091C | LDC027G-121C |
LDC027G-151C | LDC031G-121 | LDC031G-151 | LDC031G-181 | LDC031G-251 | LD-SCB-024 |
LD-SCB-025 | LD-SCB-026

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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.
- Verify the wall can support the display's weight. If not, reinforce the wall before installation.
- 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 37.

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Introduction

Product Overview

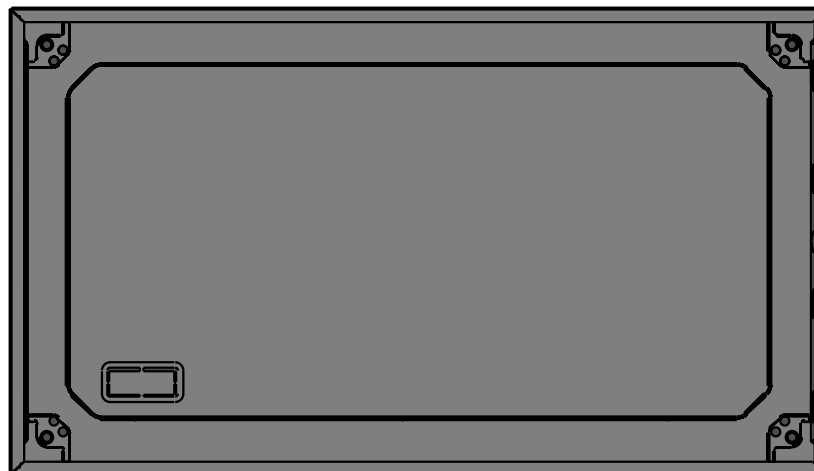
LED Unit

Note: The number of the LED Modules per Cabinet will vary depending on the model.

Front View



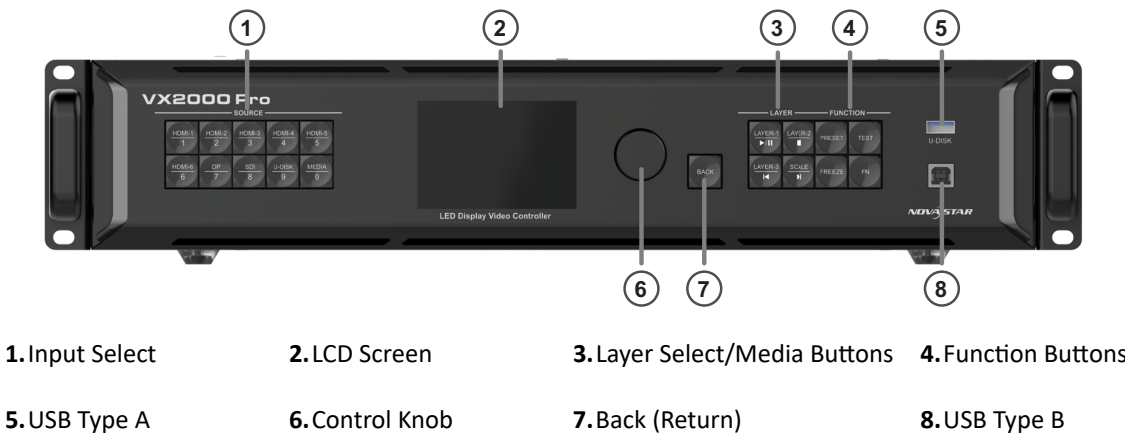
Rear View



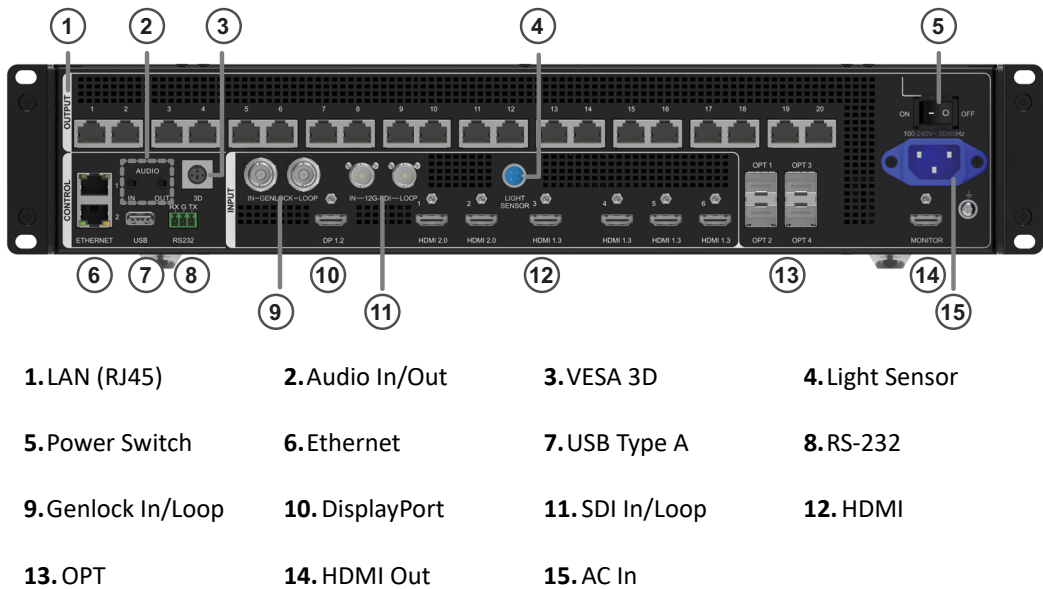
Control Box

LD-SCB-024 (VX2000 Pro)

Front View

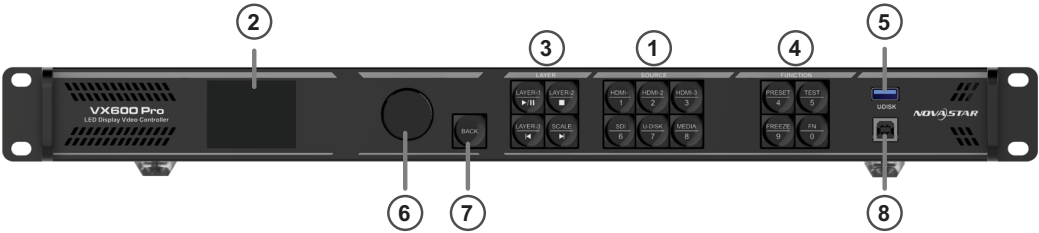


Rear View



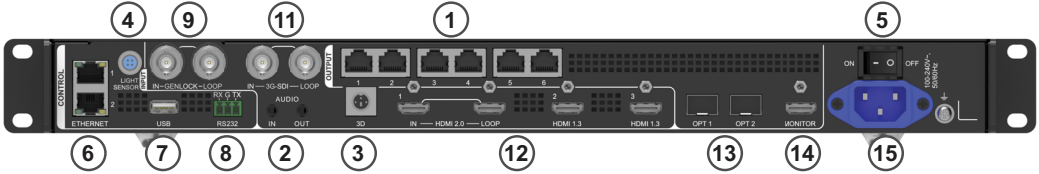
LD-SCB-025 (VX600 Pro)

Front View



- | | | | |
|-----------------|-----------------|-------------------------------|---------------------|
| 1. Input Select | 2. LCD Screen | 3. Layer Select/Media Buttons | 4. Function Buttons |
| 5. USB Type A | 6. Control Knob | 7. Back (Return) | 8. USB Type B |

Rear View



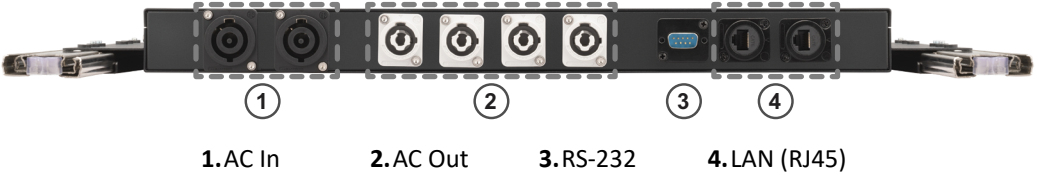
- | | | | |
|--------------------|------------------------|-----------------|-----------------|
| 1. LAN (RJ45) | 2. Audio In/Out | 3. VESA 3D | 4. Light Sensor |
| 5. Power Switch | 6. Ethernet | 7. USB Type A | 8. RS-232 |
| 9. Genlock In/Loop | 10. <i>unavailable</i> | 11. SDI In/Loop | 12. HDMI |
| 13. OPT | 14. HDMI Out | 15. AC In | |

Power Module (LD-SCB-026)

Front View



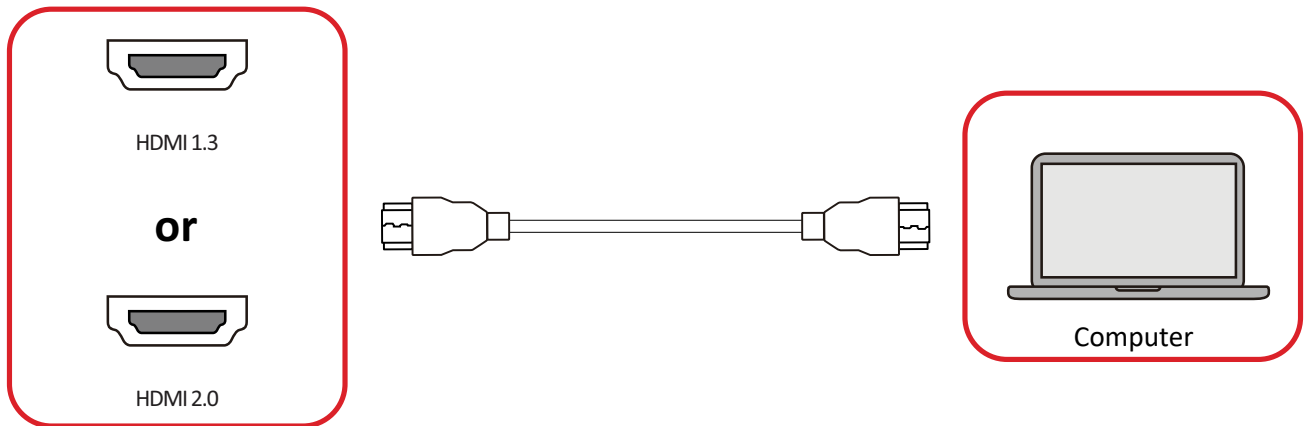
Rear View



Making Connections

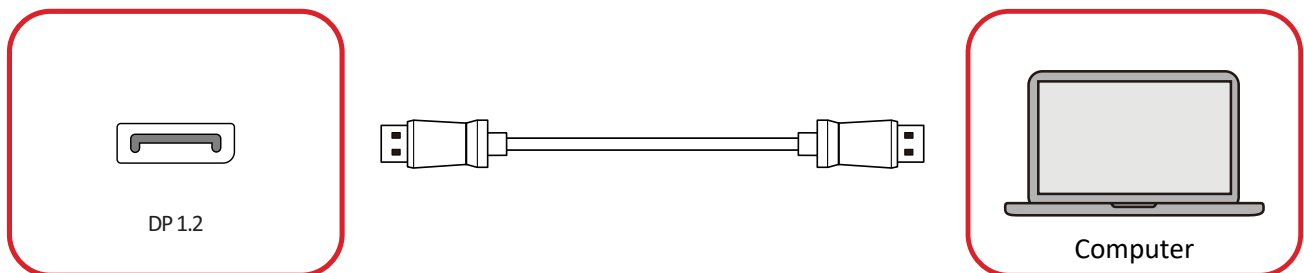
Connecting to Video Inputs

HDMI



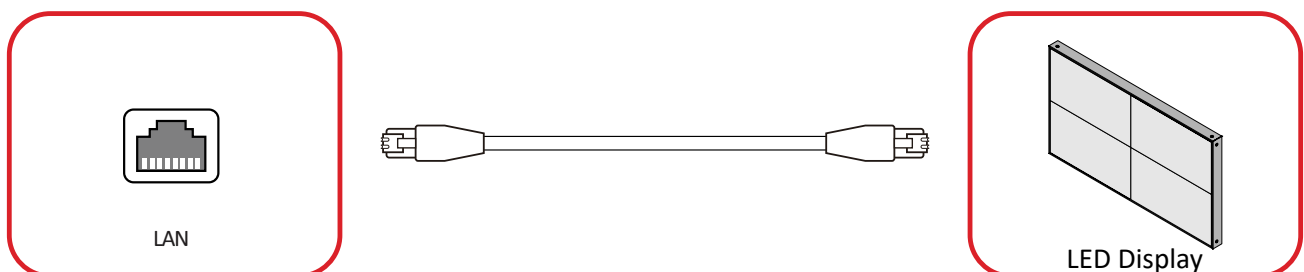
Connect an HDMI cable from your external device to any of the HDMI port (**HDMI 1.3/HDMI 2.0**) of the control box.

DisplayPort¹



Connect a DisplayPort cable from your external device to the DisplayPort (**DP 1.2**) port of the control box.

LAN (RJ45)



When you use an Ethernet cable to connect the control system to the LED display, video data is transmitted in real time to the receiving cards, allowing seamless display performance across multiple cabinets.

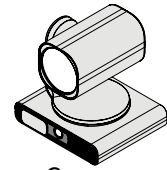
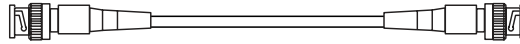
¹ – The **DP 1.2** port is only available on the VX2000 Pro control box.

SDI Connection

1



SDI IN

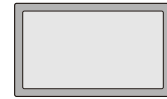
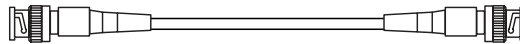


Camera

2



SDI LOOP



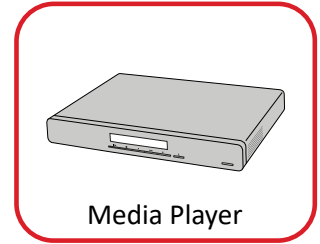
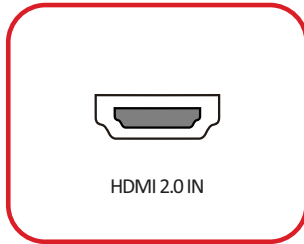
Field Monitor

1. To ingest the SDI video signal, securely connect a SDI cable to the SDI output port of your video device, and the other end to the SDI input (**3G-SDI IN/12G-SDI IN**) port of the control box.
2. (Optional) To loop out the signal to another video device, connect a second SDI cable from your display device to the SDI output (**3G-SDI LOOP²/12G-SDI LOOP**) port of the control box.

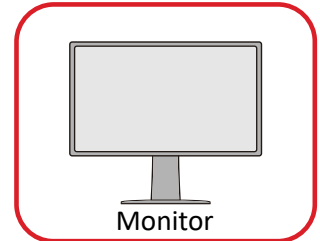
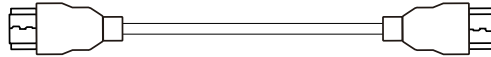
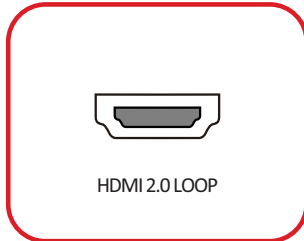
² – The VX2000 Pro control box only supports SDI output video resolution up to 1080p @ 24/25/30/48/50/60 Hz (4:2:2).

HDMI Connection³

1



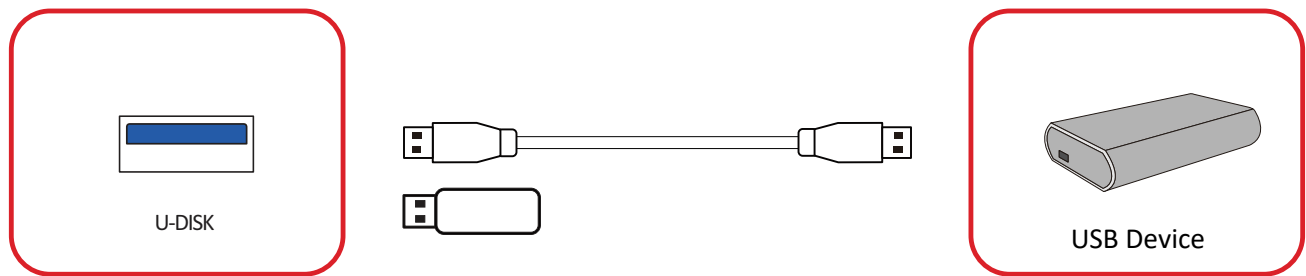
2



1. Connect a HDMI cable to the HDMI output port of your video device, and the other end to the HDMI input (**HDMI 2.0 IN**) port of the control box.
2. (Optional) To loop out the signal to a display device, connect a second HDMI cable from the device to the HDMI output (**HDMI 2.0 LOOP**) port of the control box.

³– The **HDMI 2.0 LOOP** port is only available on the VX600 Pro control box.

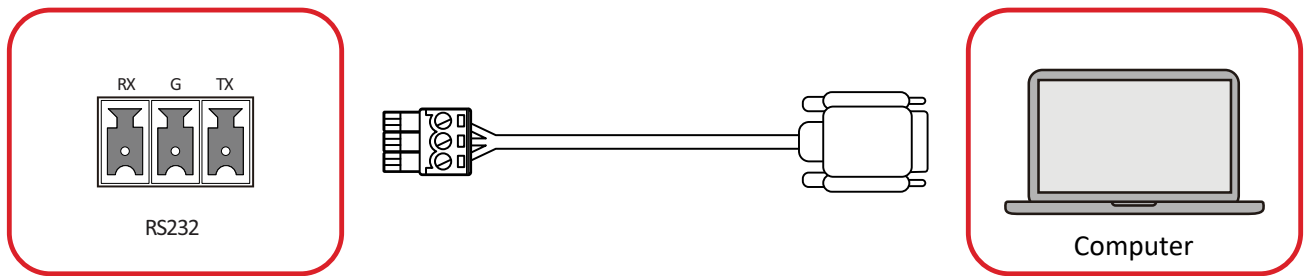
USB Type A Connection



Plug the USB device or storage drive into the **U-DISK** (USB Type A) port of the control box

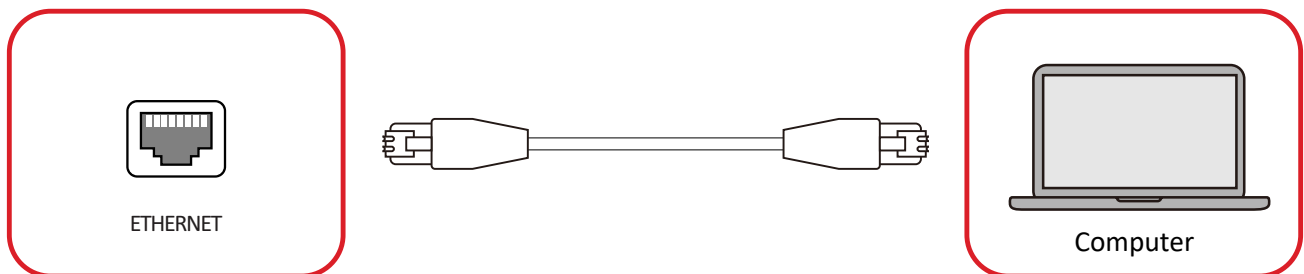
Note: The USB Type A port at the rear of the control box is for service only.

RS-232 Connection



When you use a 9-pin D-Type to RS-232 3-pin Phoenix 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.

Network Connection



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.

Video Output

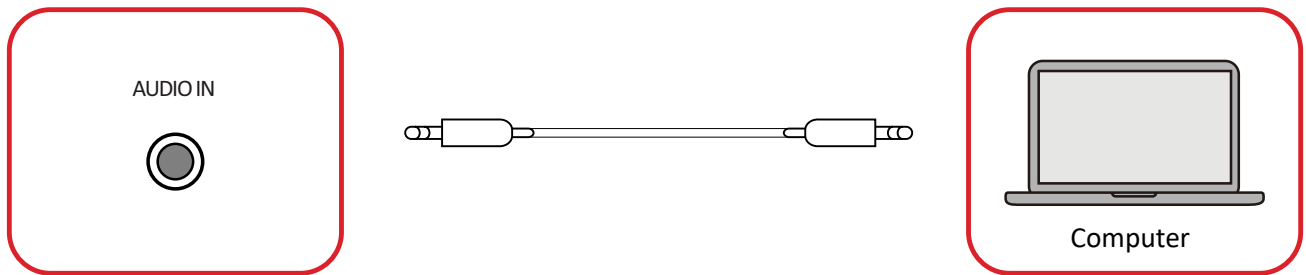


To output video via a display device, connect an HDMI cable to the **HDMI IN** port of your display device, and the other end to the **MONITOR** port of the control box.

Note: The **MONITOR** port only supports a fixed resolution of 1920 x 1080 @ 60 Hz.

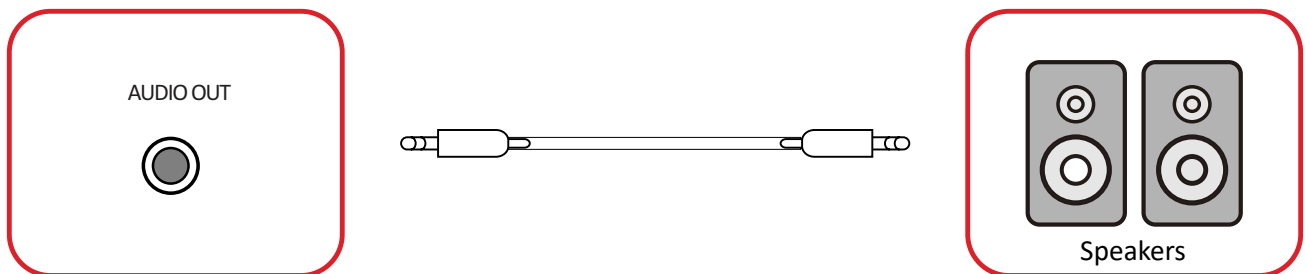
Audio Connection

Audio In



To play audio from your external device through the display's speakers, connect one end of an optical cable to your external device, and the other end to the display's **AUDIO IN** port.

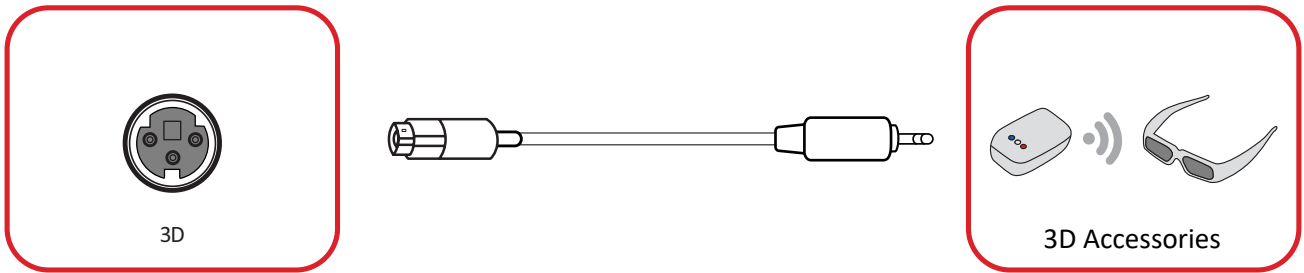
Audio Out



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.

Optional Connections

3D

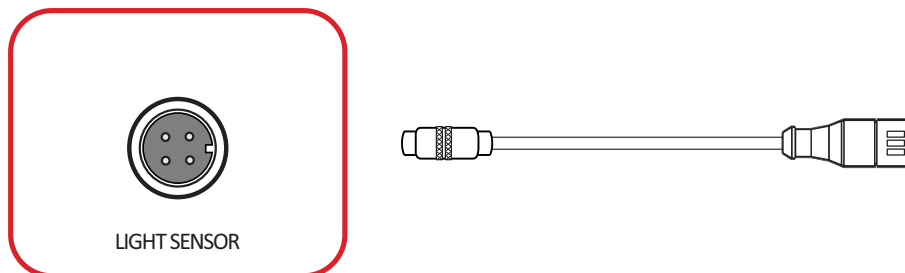


To display 3D content, connect a 3D emitter cable from your 3D emitter to the VESA 3D port of the control box.

Note: To experience 3D effect, 3D glasses are needed.

Brightness Control

Important: Before installing the light sensor, make sure the chosen mounting location is adequately illuminated by natural light and that the sensor will not be artificially shaded or behind any objects.



To automatically dim and brighten the display based on the surrounding light condition, connect the DIN connector of the light sensor to the **LIGHT SENSOR** jack of the control box and carefully screw in the sensor. Then, mount the other end to the appropriate location.

Using Your Display

Turning the LED Display On/Off

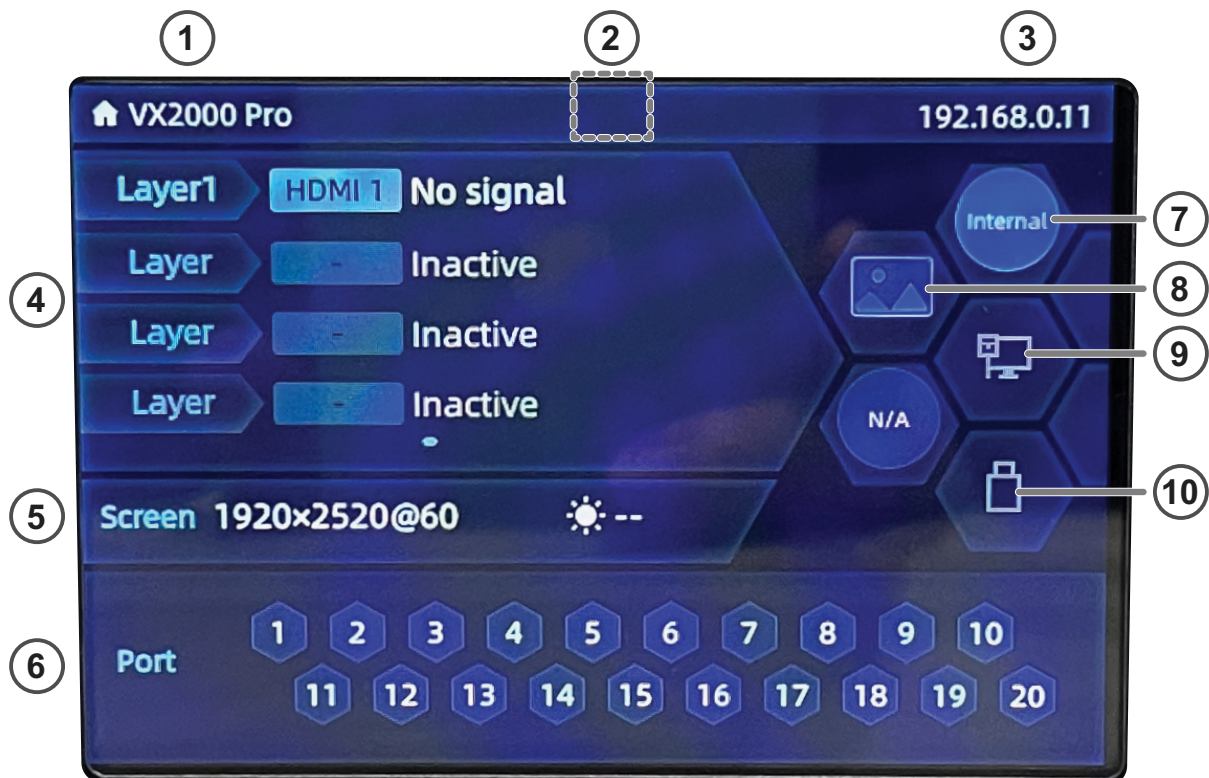


1. Make sure the power supply cable(s) is connected, plugged into power outlet(s), and the **Power** button at the rear of the control box is in the “on” position.
2. Press the **Power Switch** at the front of the Power Module to turn on the display.
3. To turn the display off, press the **Power Switch** again.

Menu Operation

Home Screen

The Home Screen shows the control box's current status.



	Field	Description
1	Model Name	Shows the name of the control box.
2	Lock Status	The lock icon appears when the control box is locked. Press and hold the Control Knob and Back button to lock/unlock the control box.
3	IP Address	Shows the IP address of the control box.
4	Layer Status	Shows the current resolution, current input signal, and the name of all the open layers.
5	Screen Status	Shows the current resolution, refresh rate, and brightness level of the screen.

Field		Description	
6	LAN Port Status ¹	Shows the current status of each individual LAN (RJ45) port.	
			The port is connected.
			The port is disconnected or not in use.
			The port is transmitting or backing up data.
7	Synchronization Status	Shows the synchronization status of the connected control boxes.	
			Synchronization is turned on.
			Synchronization is turned off.
			The signal is synchronizing with the timing source.
			The signal failed to synchronize with the selected timing source.
8	Display Status	Shows the current on-screen image.	
			The on-screen image is hidden.
			A test pattern is displayed.
			The on-screen image is displayed.
			The on-screen image is held.
9	Connection Status	Shows the current status of the connection between the display and an external computer.	
			The display is connected to an external computer via Ethernet.
			The display is disconnected to any external computer.
			The display is connected to an external computer via USB.

¹ – The VX2000 Pro control box has 20 LAN ports, while the VX600 Pro control box has six LAN ports.

Field		Description	
10	USB Status	Shows the current status of the USB connection.	
			A USB device is connected.
			No USB device is connected.

Note: For detailed documentation on the VX2000 Pro or VX600 Pro control box, please visit the following page: <https://www.novastar.tech/>.

Appendix

General Specifications

Note: Product specifications are subject to change without notice.

LDC027G Series (GOB LED)

Item	Category	Specifications		
Model		LDC027G-121	LDC027G-151	LDC027G-181
LED Screen	LED Type	GOB (3-in-1 SMD)		
	Size	68.84 cm		
		27"		
	Active Size (H x V)	600.00 mm x 337.50 mm		
		23.62" x 13.29"		
	Pitch Size	1.25 mm	1.56 mm	1.88 mm
	Resolution	480 x 270	384 x 216	320 x 180
	Refresh Frequency	3840 Hz		
	Contrast Ratio	6500:1 (Typical)		
	Brightness	100-600 cd/m2 (100 levels of adjustment)		
LED Lifespan	100,000 hours			
Power	Voltage	100-120V/30A ~ 50/60 Hz 220-240V/15A ~ 50 Hz (will vary by country)		
Operating Conditions	Altitude	≤ 5,000 m		
		≤ 16,404 ft		
	Relative Humidity	10%~80% non-condensing		
	Temperature	0° C to 40° C		
32° F to 104° F				
Storage Conditions	Altitude	≤ 5,000 m		
		≤ 16,404 ft		
	Relative Humidity	10%~85% non-condensing		
	Temperature	-10° C to 60° C		
14° F to 140° F				
Cabinet	Physical Dimension (W x H x D)	600.00 x 337.50 x 31.00 mm		
		23.62" x 13.29" x 1.22"		
	Weight	3.70 kg		
		8.16 lb		

Item	Category	Specifications		
Power Consumption	On (Typical)	22W	21W	20W
	On (Maximum)	67W	63W	61W
	Off	< 0.5W		

LDC027G Series (Flip Chip LED)

Item	Category	Specifications			
Model		LDC027G-071C	LDC027G-091C	LDC027G-121C	LDC027G-151C
LED Screen	LED Type	COB (Flip chip)			
	Size	68.84 cm			
		27"			
	Active Size (H x V)	600.00 mm x 337.50 mm			
		23.62" x 13.29"			
	Pitch Size	0.78 mm	0.94 mm	1.25 mm	1.56 mm
	Resolution	768 x 432	640 x 360	480 x 270	384 x 216
	Refresh Frequency	3,840 Hz			
	Contrast Ratio	6,500:1 (Typical)			
Brightness	100-600 cd/m2 (100 levels of adjustment)				
LED Lifespan	100,000 hours				
Power	Voltage	100-120V/30A ~ 50/60 Hz 220-240V/15A ~ 50 Hz (will vary by country)			
Operating Conditions	Altitude	≤ 5,000 m			
		≤ 16,404 ft			
	Relative Humidity	10%~80% non-condensing			
	Temperature	0° C to 40° C			
32° F to 104° F					
Storage Conditions	Altitude	≤ 5,000 m			
		≤ 16,404 ft			
	Relative Humidity	10%~85% non-condensing			
	Temperature	-10° C to 60° C			
14° F to 140° F					
Cabinet	Physical Dimension (W x H x D)	600.00 x 337.50 x 31.00 mm			
		23.62" x 13.29" x 1.22"			
	Weight	3.70 kg			
		8.16 lb			
Power Consumption	On (Typical)	20W	19W	18W	17W
	On (Maximum)	67W	57W	54W	51W
	Off	< 0.5W			

LDC031G Series

Item	Category	Specifications			
Model		LDC031G-121	LDC031G-151	LDC031G-181	LDC031G-251
LED Screen	LED Type	GOB (3-in-1 SMD)			
	Size	78.74 cm			
		31"			
	Active Size (H x V)	640 mm x 480 mm			
		25.20" x 18.90"			
	Pitch Size	1.25 mm	1.56 mm	1.86 mm	1.25 mm
	Resolution	256 x 128	208 x 104	172 x 186	128 x 64
	Refresh Frequency	3,840 Hz			
	Contrast Ratio	6,500:1 (Typical)			
Brightness	100-600 cd/m2 (100 levels of adjustment)				
LED Lifespan	100,000 hours				
Power	Voltage	100-120V/30A ~ 50/60 Hz 220-240V/15A ~ 50 Hz (will vary by country)			
Operating Conditions	Altitude	≤ 5,000 m			
		≤ 16,404 ft			
	Relative Humidity	10%~80% non-condensing			
	Temperature	0° C to 40° C			
32° F to 104° F					
Storage Conditions	Altitude	≤ 5,000 m			
		≤ 16,404 ft			
	Relative Humidity	10%~85% non-condensing			
	Temperature	-10° C to 60° C			
14° F to 140° F					
Cabinet	Physical Dimension (W x H x D)	640 x 480 x 41 mm			
		25.20" x 18.90" x 1.65"			
	Weight	6.1 kg			
		13.49 lb			
Power Consumption	On (Typical)	34W	34W	28W	26W
	On (Maximum)	103W	101W	85W	79W
	Off	< 0.5W			

Control Box Specifications

LD-SCB-024 Control Box

Note: The LD-SCB-024 control box comprises of a VX2000 Pro control box and LD-SCB-026 Power Module.

Item	Category	Specifications	
Model		VX2000 Pro	LD-SCB-026
Input	HDMI	4 x (HDMI 2.0, HDCP 2.2)	N/A
		2 x (HDMI 1.3, HDCP 1.4)	
	USB Type A	1 x USB 3.0	
		1 x USB 2.0	
	RJ45	2 x Control	1 x Control
	DisplayPort	1 x (DP 1.2)	N/A
	Audio In (3.5 mm)	1	
Output	HDMI	1 x (HDMI 1.3, HDCP 1.4)	N/A
	Speaker	N/A	
	Audio Out (3.5 mm)	1	
	USB Type A (Power)	1 x USB 3.0 5V/0.9A	
		1 x USB 2.0 5V/0.5A	
Ethernet Ports to Cabinet		20	N/A
Physical Dimensions (W x H x D)	Control Box	482.6 x 94.6 x 493 mm	N/A
		19.0" x 3.7" x 19.4"	
	Power Module	N/A	565 x 39 x 428 mm
			22.2" x 1.5" x 16.9"
Weight	Control Box	7.0 kg	N/A
		15.4 lb	
	Power Module	N/A	6.0 kg
			13.2 lb
Power Consumption		13.2 kW @ 220V	
		6.6 kW @ 110V	

LD-SCB-025 Control Box

Note: The LD-SCB-025 control box comprises of a VX600 Pro control box and LD-SCB-026 Power Module.

Item	Category	Specifications	
Model		VX600 Pro	LD-SCB-026
Input	HDMI	1 x (HDMI 2.0, HDCP 2.2)	N/A
		2 x (HDMI 1.3, HDCP 1.4)	
	USB Type A	1 x USB 3.0	
		1 x USB 2.0	
	RJ45	2 x Control	1 x Control
	DisplayPort	N/A	N/A
	Audio In (3.5 mm)	1	
Output	HDMI	1 x (HDMI 1.3, HDCP 1.4)	N/A
	Speaker	N/A	
	Audio Out (3.5 mm)	1	
	USB Type A (Power)	1 x USB 3.0 5V/0.9A	
		1 x USB 2.0 5V/0.5A	
Ethernet Ports to Cabinet		6	N/A
Physical Dimensions (W x H x D)	Control Box	482.6 x 50.1 x 302.2 mm	N/A
		19.0" x 2.0" x 11.9"	
	Power Module	N/A	565 x 39 x 428 mm
Weight	Control Box	3.90 kg	N/A
		8.60 lb	
	Power Module	N/A	6.0 kg
			13.2 lb
Power Consumption		13.2 kW @ 220V	
		6.6 kW @ 110V	

Timing Chart

Input Signal	Supported Resolution	Video Sampling Modes	Max Bit Depth per Color
HDMI 2.0, DP 1.2 ¹	4096 x 2160 @ 24, 25, 30 Hz	RGB 4:4:4	12 bit
		YCbCr 4:4:4	
	4096 x 2160 @ 24, 25, 30, 48, 50, 60 Hz	YCbCr 4:4:4	8 bit
		YCbCr 4:2:2	12 bit
	3840 x 1080 @ 24, 25, 30, 48, 50, 60, 72, 85 Hz	RGB 4:4:4	12 bit
	3840 x 1080 @ 24, 25, 30, 48, 50, 60, 72, 85, 100 Hz	RGB 4:4:4	10 bit
	3840 x 1080 @ 24, 25, 30, 48, 50, 60, 72, 85, 100, 120 Hz	YCbCr 4:4:4	8 bit
		YCbCr 4:2:2	12 bit
		RGB 4:4:4	12 bit
HDMI 1.3	1920 x 1080 @ 24, 25, 30 Hz	RGB 4:4:4	
	1920 x 1080 @ 24, 25, 30, 48, 50, 60 Hz	YCbCr 4:4:4	10 bit
		YCbCr 4:2:2	12 bit
12G-SDI ¹	4096 x 2160 @ 24, 25, 30, 48, 50 Hz	YCbCr 4:2:2	10 bit
	3840 x 1080 @ 24, 25, 30, 48, 50 Hz		
	1920 x 1080 @ 24, 25, 30, 48, 50 Hz		
3G-SDI ²	1920 x 1080 @ 24, 25, 30, 48, 50, 60 Hz	YCbCr 4:2:2	10 bit

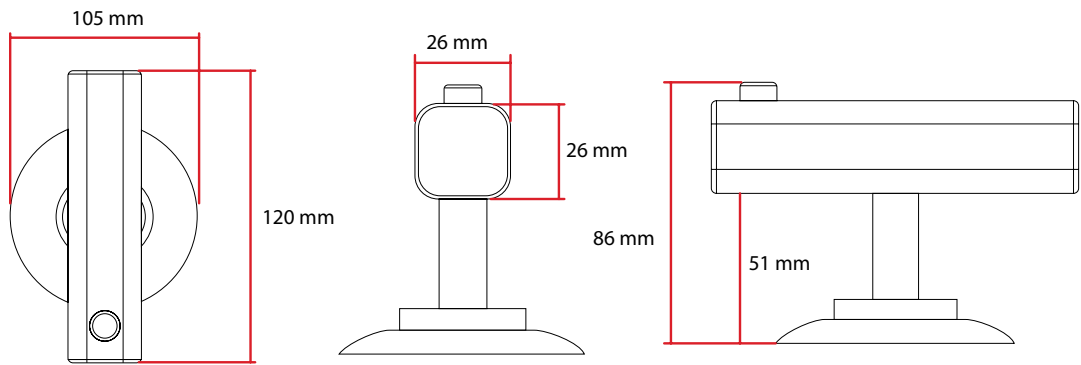
1 – For LD-SCB-024 only

2 – For LD-SCB-025 only.

Maintenance Tools

LED Module Removal Tool

Dimensions



Specifications

Item	Description
Product Dimension	120 x 86 x 105 mm
	4.72" x 3.39" x 4.13"
Weight	0.20 kg
	0.44 lb

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	1. Check whether Sleep mode is enabled. 2. Check if there is a power outage in your area. 3. Turn on the display, provide an active signal, and see if the problem is with the signal or external control system. 4. Check whether the Ethernet cables inside the cabinets are connected properly.
The power indicator is off, and there is no response	1. Ensure the power cable is connected and not loose. 2. Check that the power outlet is functioning properly and meets the required electrical requirement.
The display does not recognize the USB storage device	1. Ensure the drive is either formatted for FAT32 or NTFS. 2. If the USB storage device needs external power, connect its power adapter to an electrical outlet.

Video Not Working Properly

Problem or Issue	Possible Solutions
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	1. Check the signal cable. 2. Check if other electronics or different signal types are interrupting the signal. 3. An optional active video cable or optional video extender is required for a long 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 computer speakers are set to external speakers.
One speaker only	1. Adjust the sound balance in the menu. 2. Check the left and right sound control panel settings of the computer or media player source. 3. Check the audio cable connection (if used). 4. Ensure the content has two audio channels and not mono.

Maintenance

General Precautions

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

Initial Operation

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

Front Panel Cleaning Instructions

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

Cabinet Cleaning Instructions

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

Regular Use

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

RS-232 Protocol

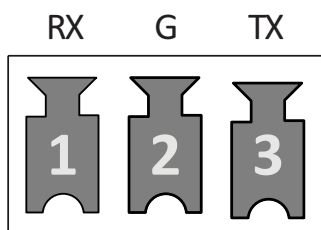
This document describes the hardware interface and software protocols of RS-232 interface communication between the ViewSonic LED Display and computers or other control units with RS-232 protocol.

Description

RS-232 Hardware Specification

Display communication port:

- Connector type: 3-Pin Phoenix terminals.
- A straight-through RS-232 serial cable is required for connection.
- Pin Assignment:



Pin #	Signal	Remark
1	RXD	Input to Display
2	GND	Ground
3	TXD	Output from Display

RS-232 Communication Setting

- Baud Rate Select: 115200 bps
- Data bits: 8 bits
- Parity: None
- Stop Bits: 1
- Data Stream: Hexadecimal data

Command Table

Note: Some commands are not supported depending on the control box model.

Function	Command	HEX
Brightness	0%	55 AA 00 00 FE FF 01 FF FF FF 01 00 01 00 00 02 01 00 00 55 5A
	10%	55 AA 00 00 FE FF 01 FF FF FF 01 00 01 00 00 02 01 00 19 6E 5A
	20%	55 AA 00 00 FE FF 01 FF FF FF 01 00 01 00 00 02 01 00 33 88 5A
	30%	55 AA 00 00 FE FF 01 FF FF FF 01 00 01 00 00 02 01 00 4C A1 5A
	40%	55 AA 00 00 FE FF 01 FF FF FF 01 00 01 00 00 02 01 00 66 BB 5A
	50%	55 AA 00 00 FE FF 01 FF FF FF 01 00 01 00 00 02 01 00 7F D4 5A
	60%	55 AA 00 00 FE FF 01 FF FF FF 01 00 01 00 00 02 01 00 99 EE 5A
	70%	55 AA 00 00 FE FF 01 FF FF FF 01 00 01 00 00 02 01 00 B2 07 5B
	80%	55 AA 00 00 FE FF 01 FF FF FF 01 00 01 00 00 02 01 00 CC 21 5B
	90%	55 AA 00 00 FE FF 01 FF FF FF 01 00 01 00 00 02 01 00 E5 3A 5B
	100%	55 AA 00 00 FE FF 01 FF FF FF 01 00 01 00 00 02 01 00 FF 54 5B
USB Playback	Pause	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 00 14 01 00 00 A7 56
	Play	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 00 14 01 00 01 A8 56
	Stop	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 00 14 01 00 02 A9 56
	Previous	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 00 14 01 00 03 AA 56
	Next	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 00 14 01 00 04 AB 56
Audio	Enable Sound	55 AA 00 00 FE FF 00 00 00 00 01 00 86 00 00 02 01 00 00 DC 57
	Mute	55 AA 00 00 FE FF 00 00 00 00 01 00 86 00 00 02 01 00 58 34 58
	Set Volume (example: 50)	55 AA 00 00 FE 00 00 00 00 00 01 00 01 10 00 02 01 00 32 9A 56
Screen	Blank	55 AA 00 00 FE FF 00 00 00 00 01 00 50 00 20 02 01 00 01 C7 57
	Freeze	55 AA 00 00 FE FF 00 00 00 00 01 00 50 00 20 02 01 00 02 C8 57
	Unblank / Unfreeze	55 AA 00 00 FE FF 00 00 00 00 01 00 50 00 20 02 01 00 00 C6 57

Function	Command	HEX
Source	Switch layer 1 source to HDMI 1	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 01 01 AB 56
	Switch layer 1 source to HDMI 2	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 01 02 AC 56
	Switch layer 1 source to HDMI 3	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 01 03 AD 56
	Switch layer 1 source to HDMI 4	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 01 04 AE 56
	Switch layer 1 source to HDMI 5	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 01 05 AF 56
	Switch layer 1 source to HDMI 6	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 01 06 B0 56
	Switch layer 1 source to HDMI 7	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 01 07 B1 56
	Switch layer 1 source to DP	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 01 08 B2 56
	Switch layer 1 source to SDI	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 01 09 B3 56
	Switch layer 1 source to USB	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 01 0B B5 56
	Switch layer 1 source to OPT1-1	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 01 0D B7 56
	Switch layer 1 source to OPT1-2	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 01 0E B8 56
	Switch layer 2 source to HDMI 1	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 02 01 AC 56
	Switch layer 2 source to HDMI 2	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 02 02 AD 56
	Switch layer 2 source to HDMI 3	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 02 03 AE 56
	Switch layer 2 source to HDMI 4	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 02 04 AF 56
	Switch layer 2 source to HDMI 5	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 02 05 B0 56
	Switch layer 2 source to HDMI 6	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 02 06 B1 56
	Switch layer 2 source to HDMI 7	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 02 07 B2 56
	Switch layer 2 source to DP	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 02 08 B3 56
	Switch layer 2 source to SDI	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 02 09 B4 56
	Switch layer 2 source to USB	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 02 0B B6 56
	Switch layer 2 source to OPT1-1	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 02 0D B8 56
	Switch layer 2 source to OPT1-2	55 AA 00 3E FE 00 00 00 00 00 01 00 00 00 02 13 02 00 02 0E B9 56

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 Title 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, même 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.

CE Conformity for European Countries



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

The following information is only for EU-member states:

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



Declaration of RoHS2 Compliance

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

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

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

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

European Union Regulatory Conformance

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

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

Indian Restriction of Hazardous Substances

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

Product Disposal at End of Product Life

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

USA & Canada:

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

Europe:

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

Taiwan:

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

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

ViewSonic Europe Limited



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

Limited Warranty

ViewSonic® Commercial Display

What the warranty covers:

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

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

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

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

How to get service:

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

Limitation of implied warranties:

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

Exclusion of damages:

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

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

Effect of state law:

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

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

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

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

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

Mexico Limited Warranty

ViewSonic® Commercial Display

What the warranty covers:

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

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

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

How to get service:

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

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® service center.
- Round trip transportation costs for in-warranty products will be paid by ViewSonic®.

Limitation of implied warranties:

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

Exclusion of damages:

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

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

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