

IFP62 Series

Commercial Touch 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. VS18622 | VS18623 | VS18624 P/N: IFP6562 | IFP7562 | IFP8662

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.

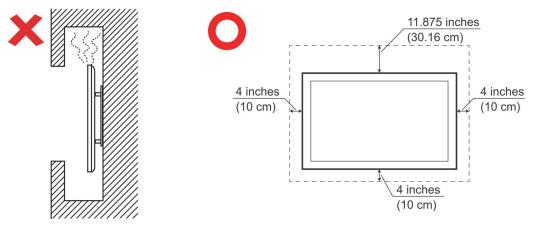
Once again, thank you for choosing ViewSonic[®]!

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.
- Do not use the device near water. To reduce the risk of fire or electric shock, do not expose the device to moisture.
- Never remove the rear cover. This display contains high-voltage parts. You may be seriously injured if you touch them.
- 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.
- Use a soft, dry cloth to clean the external housing. For more information, refer to the "Maintenance" section.
- 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.
- The device is a monitor with an LED backlight intended for general office use.
- 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 place anything on the device that prevents heat dissipation.



- 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

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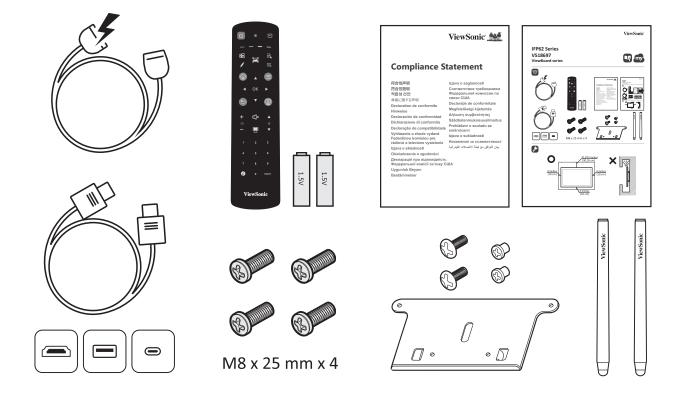
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Introduction

Package Contents

- HDMI cable
- Power cable
- Remote control
- AAA battery x 2
- USB cable
- Screw x 8

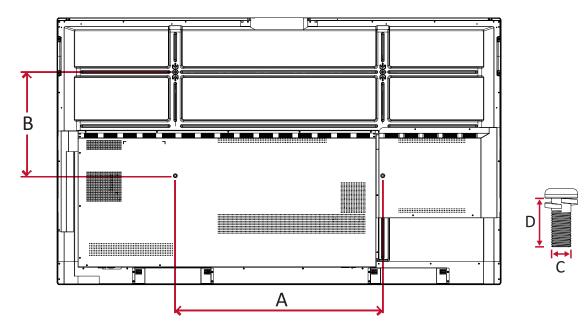
- Stylus pen x 2
- Quick start guide
- RS-232 adapter
- Clamp x 5
- Webcam Plate



NOTE: The power cord and video cables included in your package may vary depending on your country. Please contact your local reseller for more information.

Wall Mount Kit Specifications (VESA)

NOTE: Please follow the instructions in the wall mount installation guide to install your wall mount or mobile mount bracket. If attaching to other building materials, please contact your nearest dealer.



Model	VESA Spec. (A x B)	Standard Screw (C x D)	Quantity
IFP6562 - 65"	600 x 400 mm	M8 x 25 mm	4
IFP7562 - 75"	800 x 400 mm	M8 x 25 mm	4
IFP8662 - 86"	800 x 600 mm	M8 x 25 mm	4

NOTE: Do not use screws that are longer than the standard dimension, as they may cause damage to the inside of the display.

Product Overview

Front Control Panel

0 8					
23	4	HDMI IN	TOUCH OUT	USB	USB

Number	ltem	Description
1		 Power indicator light Press to turn on the device Press to turn off/on the display backlight only Press and hold to turn off the device
2	\Box	Remote control receiver
3	θ	Ambient light sensor
4	0	USB Type C inputConnect to a PC with USB Type C output
5		 High definition input Connect to a PC with HDMI output, set-top box, or other video device NOTE: HDMI IN does not support HDMI CEC.
6		Touch signal output to external PC
7		 USB 3.0 Type A input Connect USB devices such as hard disks, keyboard, mouse, etc.

13

I/O Panel

	1 HDMI OUT
	2 5
	2 5
	3 H
ViesSaak Barrow	3 HD MI N 2
SPDIF SPDIF USA AUDIO OUT AUDIO IN	
	5 5
6 7 8 9 10 11 12 13	

Number	Port	Description
1	HDMI OUT	Extend content out to another display device
2	USB 3.0	 USB Type A input Connect USB devices such as hard disks, keyboard, mouse, etc.
3	HDMI 1/2/3	 High definition input Connect to a PC with HDMI output, set-top box, or other video device NOTE: HDMI 1/2/3 supports HDMI CEC.
4	ТОИСН	Touch signal output to external PC
5	USB 2.0	For ViewBoard firmware upgrade
6	Power Switch	Turn on/off AC power supply
7	AC IN	AC power input
8	SPDIF	SPDIF output
9	LAN	 Standard RJ45 (10M/100M/1G) internet For ViewBoard and Slot-in PC use
10	RS-232	Serial interfaceFor mutual transfer of data between devices
11	VGA	External PC image input
12	AUDIO IN	External PC audio input
13	AUDIO OUT	Audio out to an external speaker

Remote Control

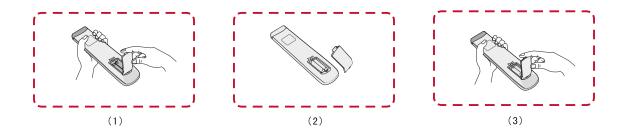
Number	Description
1	Power on/off
2	Screen capture
3	[PC ¹] Windows button
4	Startup writing
5	Back to the Embedded player Home Screen
6	Back / Return to previous page
7	Increase / Decrease volume
8	Numeric Keypad
9	Information
10	Input source selection
11	Media control buttons:
12	[PC ¹] <i>Menu</i> button
13	[PC ¹] Exit dialog box
14	Settings menu
15	Up / Down / Left / Right / OK
16	Freeze screen
17	Mute / Unmute
18	Increase / Decrease Brightness
19	Blank screen
20	Adjust Aspect Ratio

¹ All computer-related function keys are not available without a slot-in computer.

Inserting Remote Control 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 "+" symbol on the battery matches the "+" on the battery post.
- **3.** Replace the cover by aligning it with the slot on the remote control and snapping the latch shut.



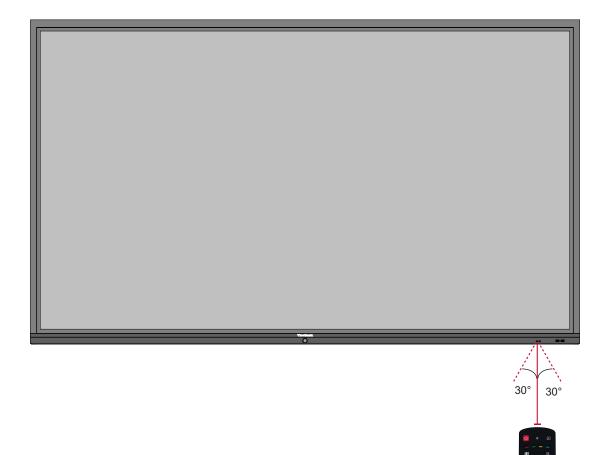
WARNING: There is a risk of explosion if batteries are replaced with the incorrect type.

NOTE:

- It is recommended that you do not mix battery types.
- Always dispose of old batteries in an environmentally friendly way. Contact your local government for more information on how to dispose of batteries safely.

Remote Control Receiver Range

The working range of the remote control is shown here. It has an effective range of 8 meters, 30° degrees left and right. Ensure there is nothing obstructing the remote control's signal to the receiver.

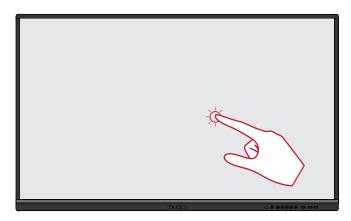


Using Gestures

Touch gestures allow the user to use pre-determined commands without using a keyboard or mouse. Using gestures on the ViewBoard, the user can select/deselect objects, change the location of an object, access settings, erase digital ink, and much more.

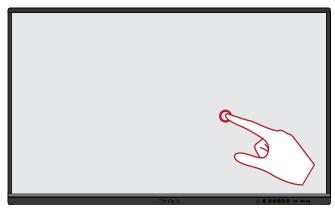
Select and Deselect an Object (Clicking)

Press and release the ViewBoard to select/deselect options or objects. This is like a single, standard left mouse click.



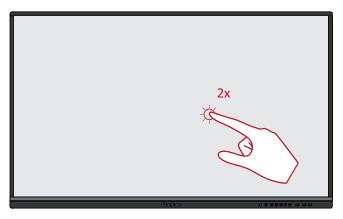
Display Menu Options (Right-Clicking)

Press and hold the ViewBoard with your finger. This is like a single, standard right mouse click.



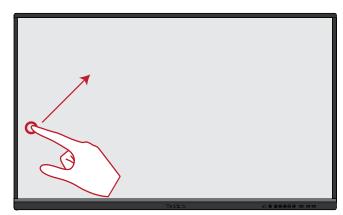
Double-Clicking

Quickly press and release twice in the same location on the ViewBoard. This is like a double, standard left mouse click.



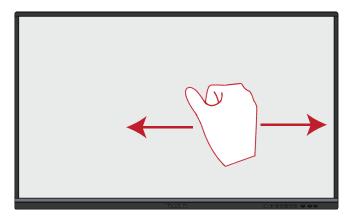
Moving an Object

Press and hold the object on the ViewBoard and slowly drag it with your finger to your desired location.



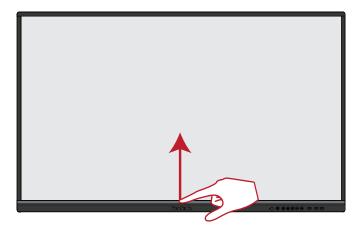
Erasing Digital Ink

Use your flattened hand, palm, or fist on the ViewBoard and move your hand across the area which you wish to erase.



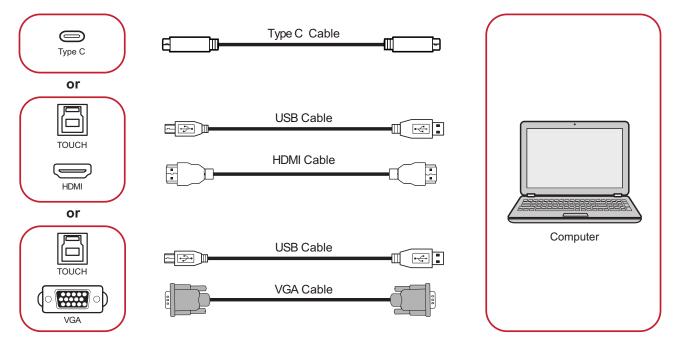
Swipe Up for General Settings

Swipe up from the bottom of the ViewBoard to launch the General Settings.



Making Connections

Connecting External Devices and Touch Connection



Your external device(s) can be connected in any of the following configurations:

Type C Connection

To connect via Type C:

Connect a Type C cable from your external device to the **Type C** port on the ViewBoard.

HDMI Connection

To connect via HDMI:

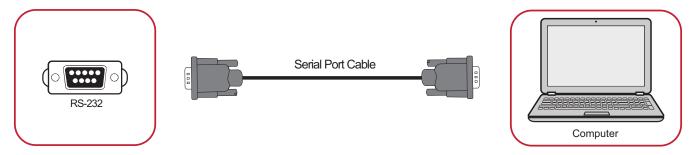
- Connect an HDMI cable from your external device to the HDMI 1/2/3 port on the ViewBoard.
- Connect a USB cable to the external device from the TOUCH port of the ViewBoard.

VGA Connection

To connect via VGA:

- Connect a VGA cable from your external device to the VGA port on the ViewBoard.
- Connect a USB cable to the external device from the TOUCH port of the ViewBoard.

RS-232 Connection



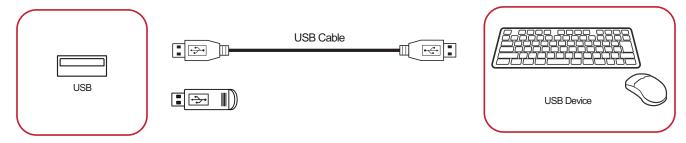
When you use a RS-232 serial port cable to connect your display to an external computer certain functions can be controlled remotely by the PC, including Power On/Off, Volume adjustment, Input select, Brightness, and more.

USB and Networking Connections

Just like any PC, it is easy to connect various USB devices and other peripherals to your ViewBoard.

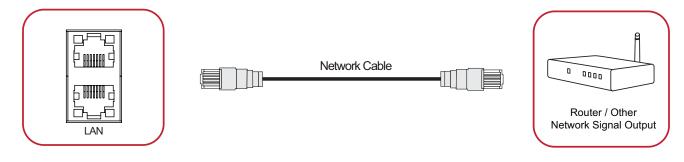
USB Peripherals

Plug the USB device cable into a **USB** port.

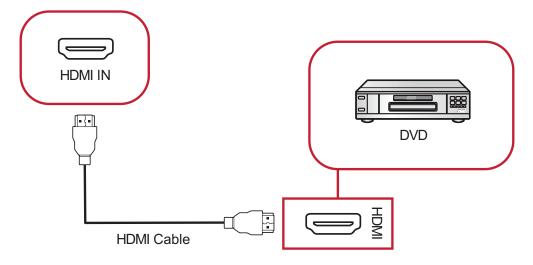


Networking and Modem cables

Plug the network cable into a **LAN** port.



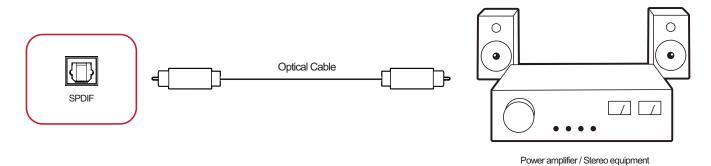
Media Player Connection



To connect to a media player:

- **1.** Connect the HDMI cable to the **HDMI IN** port on your ViewBoard and peripheral device.
- 2. Plug in the power cord of your ViewBoard, and turn on the power supply switch.
- 3. Press the **U** Power button on the right-hand side of the ViewBoard to turn the screen on.
- **4.** Press the **INPUT** button on the remote control and switch to the "HDMI" input source.

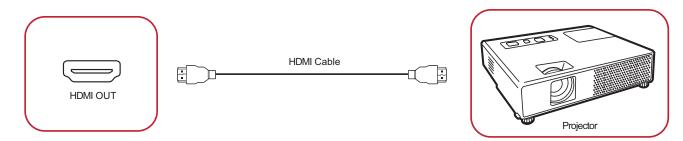
SPDIF Connection



To connect to an external sound system:

- **1.** Connect an optical cable from the **SPDIF** port to your sound system's optical connector.
- **2.** Plug in the power cord of your ViewBoard, and turn on the rear-panel power supply switch.
- 3. Press the **U** Power button on the right-hand side of the ViewBoard to turn the screen on.

Video Output Connection



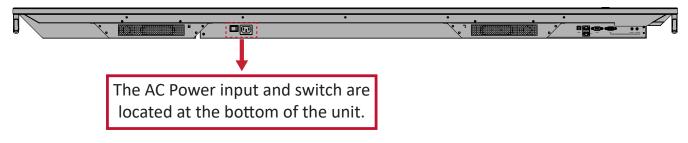
To output video via a display device:

- **1.** Connect an HDMI cable to the **HDMI IN** port of your display device, and the other end to the **HDMI OUT** port of your ViewBoard.
- **2.** Plug in the power cord of your ViewBoard, and turn on the power supply switch.
- 3. Press the ⁽∪ Power button on the right-hand side of the ViewBoard to turn the screen on.

Using Your ViewBoard

Powering On/Off your ViewBoard

1. Ensure the power cord is connected, plugged into a power outlet, and the power switch is in the "On" position.



- **2.** Press the **U Power** button to turn on the ViewBoard.
- **3.** To turn the ViewBoard off, press and hold the **U** Power button.

Initial Launch Setup

When you first turn on your ViewBoard, an initial setup wizard will launch.

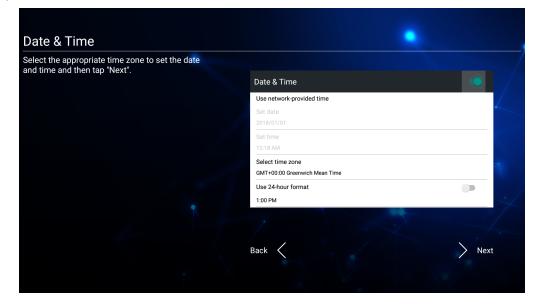
1. Select your Language.



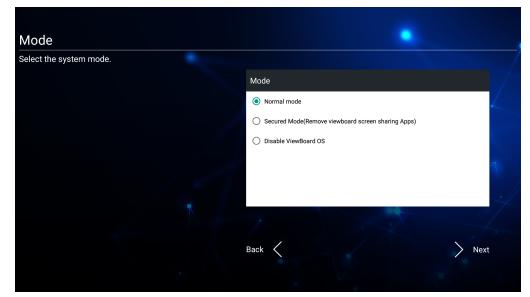
2. Setup and verify your LAN connection.

Ethernet			
To verify LAN connected and then tap "Next".			
	Ethe	rnet	
	Local	Network Setting	
	۲	DHCP	
	0	Static IP	
			7
	Back	1	> Next
	Duon		- Hext

3. Select your Time Zone to set the Date and Time.



4. Select your preferred System Mode.



5. Accept or Decline the Privacy and Copyright Protection Terms.



vLauncher - Customizable Welcome Screen



vLauncher Message

Both the vLauncher **Title** and **Subtitle** can be customized by tapping on them.



Additionally, a password can be set by tapping on **Set Password**.

Interaction at your fingertips	Edit vLauncher message	×
Image: Construction of the state of the s	Title ViewBoard Subtitle Interaction at your fingertips Set password	onfirm

Applications

Installed applications can all be found on the welcome screen. To view all applications tap on the **Down Arrow**.

	ViewBoard 10 Interaction at your fingertips Week	:27 AM nesday 2020-04-08	Exit Leurentetan
9	Browser CastReceiver myViewBoard		
	Tap to show all apps		

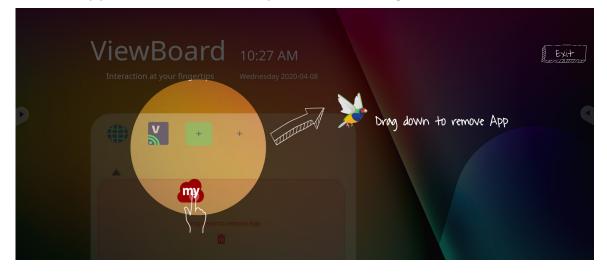
To hide the application drawer tap the **Up Arrow**.

	ViewBoard 10:27 AM Interaction at your fingertips Wednesday 2020-04-08	Exit Exercitions
>	Image: Second state sta	
	Tap to hide all apps Browser Chromium Cloud Drive Edirplay Enterprise Agent Felders	

To add a shortcut to an application, tap, hold, and drag up the icon.

	ViewBoard 10:27 AM Interaction at your fingertips Wednesday 2020-04-08	Exit Exit
9	Image: weight of the second	add App
	Image: Chromium Image: Chromium Image: Chromium Image: Chromium Image: Chromium Image: Chromium Image: Chromium Image: Chromium Image: Chromium Image: Chromium Image: Chromium	

To remove an application shortcut, tap, hold, and drag the icon down.



Toolbar

Toolbar trigger icons are on the edge of the ViewBoard launcher providing access to your tools.



To launch a tool:

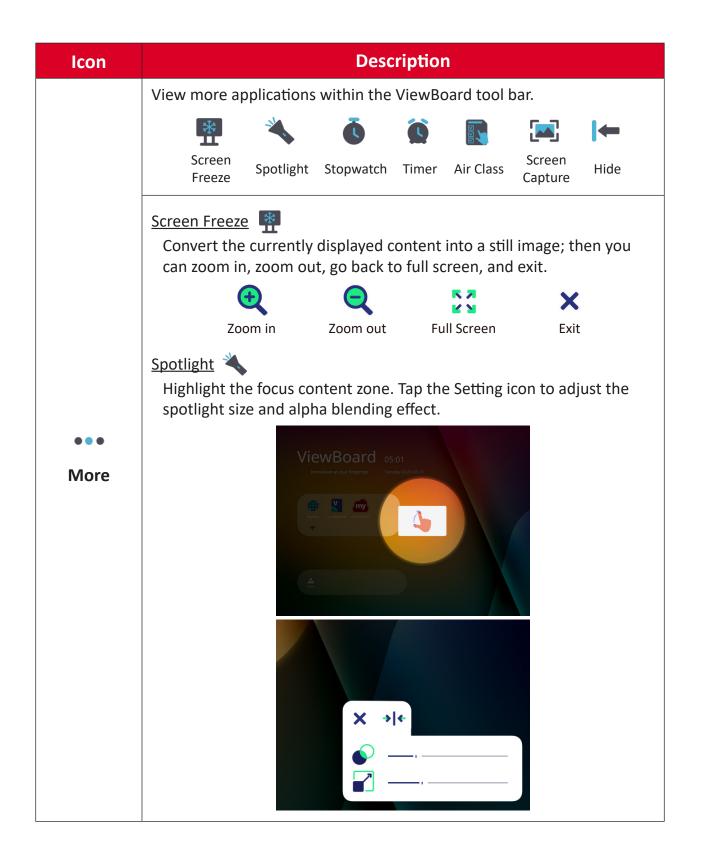
- **1.** Tap a Toolbar trigger icon.
- **2.** Tap on your desired tool icon.

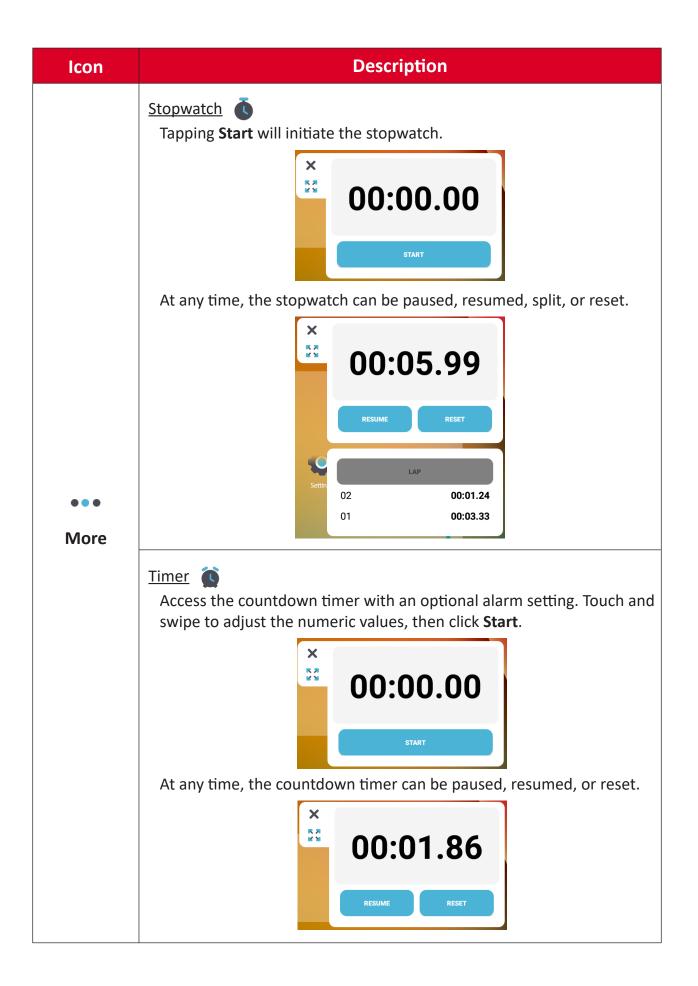


NOTE: The default toolbar setting is to be available for all input sources; however, users can go to: Settings > Preferences > Toolbar settings to adjust the options: (1) Show side toolbar, (2) Hide side toolbar, (3) Disable in all input port sources.

lcon	Description
S Back	Return to the previous operation screen. NOTE: Only for the Embedded Player source.
H ome	Return to the Home Screen of the Embedded Player.
Recent	Display all embedded applications that are currently being used.
Apps	View all installed applications.
Vhiteboard	Launch the whiteboarding software.
Record	Record, view, and save on-screen content.

lcon	Description		
	Access the pen, highlighter, clear, and save options.		
	Pen Highlighter Eraser Undo		
	CleanSaveExit		
	Pen Annotate the overlay of any input source with black, white, yellow, orange, red, pink, green, or blue ink. NOTE: The default pen setting supports up to 10-point writing.		
	Highlighter Mark and highlight with yellow, grey, gold, orange, red, pink, green or blue ink. NOTE: The default highlighter setting supports up to 10-point marking.		
Draw	<u>Eraser</u> Selectively remove the digital ink on the screen.		
	Undo Undo the previous action.		
	Redo Redo the previous action.		
	<u>Clean</u> Clears all the digital ink on the screen.		
	Save Save the screen image and any annotations.		
	Exit Close the drawing tool.		

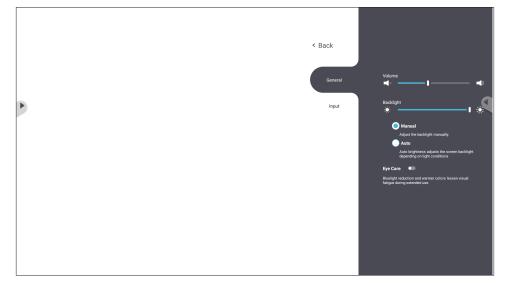




lcon	Description
	Air Class Interactive teaching tool for classroom usage.
•••	Screen Capture
More	Take a screenshot of the current screen.
	Hide/Unhide
	Hide or unhide the Toolbar trigger icons.
	Access the General Settings.
Settings	

On-Screen Display (OSD) Menu

Access General Settings and Input Settings through the OSD Menu.



ViewBoard has two options for opening the OSD Menu:

Option 1

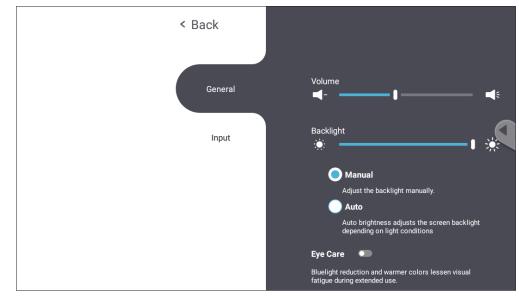
Long press anywhere in the vLauncher background.



Option 2 Press the **INPUT** button on the remote control.



General Settings



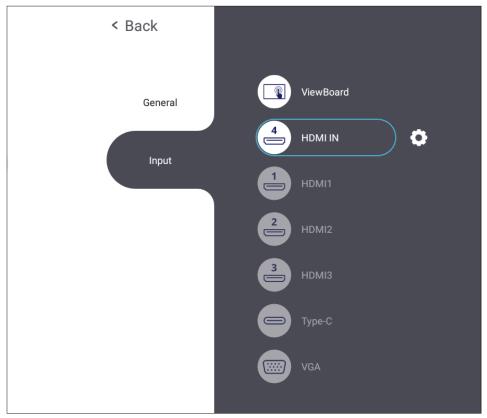
To adjust the Backlight and enable/disable Auto Brightness and Eye Care:

- **1.** Press **INPUT** on the remote control or long press the vLauncher background and touch **General** on-screen (if needed) to display the **General Settings** menu.
- **2.** Drag the brightness slider directly to adjust the backlight value, and/or touch On or Off to enable/disable the function.
- **3.** Press **EPG/BACK** on the remote control, or touch a blank area outside of the menu to exit.

To adjust the Volume:

- **1.** Press **INPUT** on the remote control or long press the vLauncher background and touch **General** on-screen (if needed) to display the **General Settings** menu.
- 2. Drag the volume slider directly to adjust the value.
- **3.** Press 🕸 (Mute) on the remote control to enable or disable the mute function.
- **4.** Press **EPG/BACK** on the remote control, or touch a blank area outside of the menu to exit.

Input Settings



To select an Input Source:

- **1.** Press **INPUT** on the remote control, press the setting button (2) on the front panel, or press the **Setting** setting icon from the toolbar to display the **Input Settings** menu.
- **2.** Press $\nabla/\Delta/\langle/\rangle$ to select the input source you want.

NOTE: PC source will only display when the slot-in computer is connected.

- **3.** Press **ENTER** on the remote control, or touch the input source.
- **4.** Press **EPG/BACK** on the remote control, or touch a blank area outside of the menu to exit.
 - **NOTE:** To adjust the settings of an input source, touch the setting icon next to the highlighted input source.



Settings - HDMI & VGA Input Source

Press **MENU** on the remote control or select the setting icon next to the input source in **Input Settings** to launch the **Settings** menu. Settings include: **Audio**, **Screen**, **Display**, and **Adjust**.

Ceneral settings Settings Auto Soren Diploy Adjust Unturne 2 Diploy Muture 2 Diploy Autor Diploy Diploy

Audio Settings

- **1.** Press $\mathbf{\nabla}$ on the remote control and select the **Audio** menu.
- **2.** Press $\nabla/\Delta/\langle/\rangle$ on the remote control or directly touch the option to select it.
- **3.** Adjust the Volume, Bass, Treble, and Balance directly by touching and adjusting each value, or with the remote control by pressing **ENTER** to adjust the option.
- **4.** Touch the Mute slider directly to enable/disable mute, or press **☆ (Mute)** on the remote control.
- **5.** Press **EPG/BACK** on the remote control, or touch a blank area outside of the menu to exit.

Screen Settings

< General settings Settings							
Audio	Ratio						
Screen	0 4:3	0 16:9	— РТР				9
Display							
Adjust							
				Screen capture saved to USB dr	rive		

- **1.** Press $\mathbf{\nabla}$ on the remote control and select the **Screen** menu.
- **2.** Press $\nabla/\Delta/\langle/\rangle$ on the remote control or directly touch the option to select it.
- **3.** Adjust your preference by touching each value directly, or with the remote control by pressing **ENTER**.
- **4.** Press **EPG/BACK** on the remote control, or touch a blank area outside of the menu to exit.

Display Settings

Audio Mode Screen Standard Display Bright Kdjust Color temperature Standard Colod Warm Filter Buelight Reduction 73	< General settings Settings						
Screen Brightness 50 + Contrast 50 - + Display Hue 50 - Adjust Color temperature Color temperature • Bluelight Reduction 73 - Huelight Reduction 73 -	Audio						
Display Hue 50 - + Sharpness 50 - + Adjust Color temperature O Standard Cold Warm Filter Bluelight Reduction 73 - +	Screen	Brightness 50		+	Custom		
Adjust Color temperature Standard O Cold O Warm Filter Bluelight Reduction 73 +	Display			+			
Bluelight Reduction 73 - + +	Adjust		·				
		Bluelight Reduction			Filter		

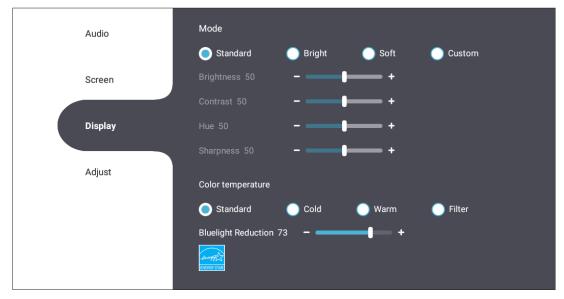
- **1.** Press $\mathbf{\nabla}$ on the remote control and select the **Display** menu.
- **2.** Press $\nabla/\Delta/\langle/\rangle$ on the remote control or directly touch the option to select it.
- **3.** Adjust the Brightness, Contrast, Hue, and Sharpness directly by touching and adjusting each value, or with the remote control by pressing **ENTER** to adjust the option.
- **4.** Drag the blue light slider directly to adjust the blue light value.

Bluelight Reduction 73 🛛 🗕 💶 🛶 🕂

5. Press **EPG/BACK** on the remote control, or touch a blank area outside of the menu to exit.

Low Blue Light Filter and Eye Health

The Blue Light Filter blocks high-energy blue light for a more comfortable viewing experience.



- **NOTE:** To meet TÜV Rheinland low blue light certification, the Display Settings must be:
 - Mode: Standard (Brightness and Contrast are 50)
 - Color Temperature: Filter
 - Blue light Filter: 0

Calculating Breaks

When viewing screens for extended periods, it is recommended to take periodic breaks from viewing. Short breaks of at least 10 minutes are recommended after one (1) hour of continuous viewing.

Taking shorter, more frequent breaks are generally more beneficial than longer, less frequent breaks.

Focus Fatigue (20-20-20 Rule)

To reduce the risk of eye fatigue by constantly looking at the screen, look away from the screen at least every 20 minutes and gaze at a distant object (at least 20 feet away) for at least 20 seconds.

Looking at Distant Objects

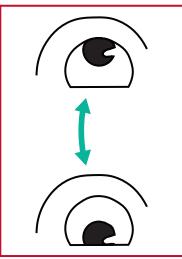
While taking breaks, users can further reduce eye strain and dryness by focusing on objects that are further away from them for 10-15 seconds, then gaze at something up close for 10-15 seconds. Repeat this up to 10 times. This exercise reduces the risk of your eyes' focusing ability to "lock up" after prolonged computer work.

Eye and Neck Exercises

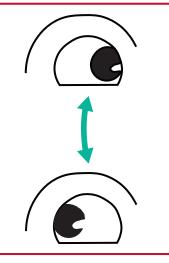
Eye Exercises

Eye exercises can help minimize eye strain. Slowly roll your eyes to the left, right, up, and down. Repeat as many times as needed.

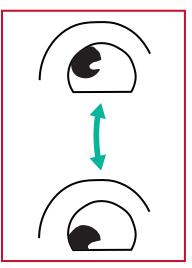
Exercises for the eyes



(1) Keep the body and the head upright. Move the eyes up to look at the ceiling, then turn down to look at the floor.



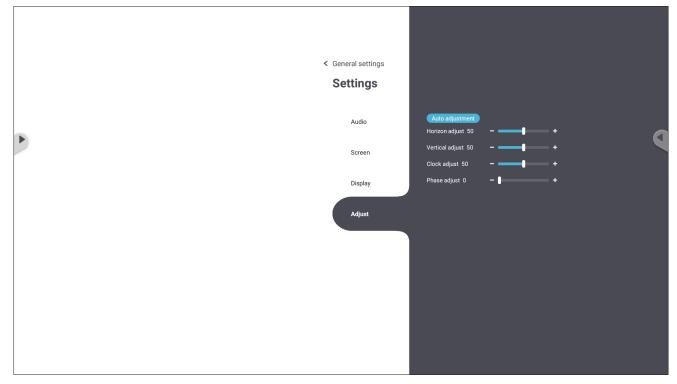
(2) Move the eyes left and right slowly to look at objects on the two sides.



(3) Move the eyes to look at objects at the right upper direction and then right lower direction. Repeat for the left upper and left lower directions.

Neck Exercises

Neck exercises can also help minimize eye strain. Relax your arms and let them hang at your sides, bend forward slightly to stretch the neck, turn your head to the right and to the left. Repeat as many times as needed.



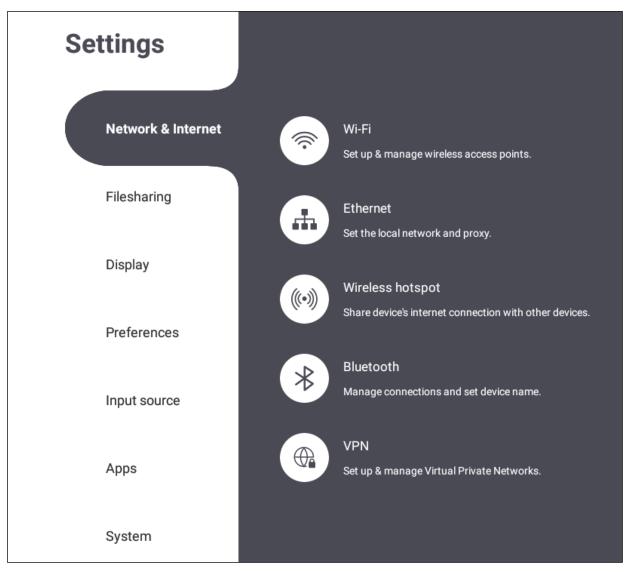
- **1.** Press $\mathbf{\nabla}$ on the remote control and select the **Adjust** menu.
- **2.** Press $\nabla/\Delta/\langle/\rangle$ on the remote control or directly touch the option to select it.
- **3.** Adjust your preference by touching each value directly, or with the remote control by pressing **ENTER**.
- **4.** Press **EPG/BACK** on the remote control, or touch a blank area outside of the menu to exit.

Settings - Embedded Player

When the ViewBoard is in the Embedded Player input source, press **MENU** on the remote control or tap the setting icon next to the input source in the On-Screen Display (OSD) Menu's Input Settings to enter the **Settings** menu.

Network & Internet

Check current network connection status, set up and manage Wi-Fi, Ethernet, Bluetooth, and VPN, and establish a Wireless hotspot.



NOTE:

- Wi-Fi, Wireless hotspot and Bluetooth settings will appear when LB-WIFI-001(optional) has been installed.
- Ethernet will disable automatically when Wi-Fi is enabled. Wi-Fi will disable automatically when Ethernet is enabled. Wi-Fi will disable when Wireless hotspot is enabled.
- The device cannot connect to the Internet when Wireless hotspot is enabled.

Wi-Fi

Setup and manage wireless access points.

• Tap the toggle button to turn Wi-Fi **On** or **Off**.

Wi-Fi	
Status: Off	red network >
Turn on Wi-Fi to see available networks.	Add network Advanced >

• Once **On**, you can: **Add a Network**, view **Saved Networks**, **Refresh** the network list, or view **Advanced** settings.

Wi-Fi	
Status: On	k Saved r >
Available networks 😋	Add network Advanced >
DemoRoom	
E7350_2.4G	

• In Advanced settings, you can toggle Network notifications On or Off and view Network card info.

Network notifica	tion 🗾		
	ublic network is available		
Network card info			
MAC address	c0:8a:cd:39:7f:69		
IP address	000:000:000		

Ethernet

Set the local network and proxy.

• Tap the drop down menu to connect/disconnect the Ethernet.

Ethernet	t	
Status: Connect		

• You can adjust Local network and Proxy settings as well.

Ethernet		
Status: Connecte	ed	
Local network	DHCP	\bigcirc
	IP address Default gateway Network DNS1 DNS2 IPv6 address IPv6 Default gateway IPv6 DNS Server	10.100.85.215 10.100.85.1 255.255.255.0 10.100.85.1 fe80::8e35:92ff:fe86:ed1a
Proxy None		
Network card inf		

Wireless Hotspot

Set and share my internet connection with other devices.

• Tap the toggle button to turn Wireless hotspot On or Off.

Wireless hotspot	
Status: On	
Device: IFP6562	
Set up	

• Tap Set up to set the Network name, Security, and Password.

Network name	
IFP6562	8
Security	
WPA2 PSK	\sim
Password	
••••	•• Ø
The password mus	t have at least
Q charactere	Cancel Save

Bluetooth

Manage connections, set the device name and discoverability.

• Tap the toggle button to turn Bluetooth **On** or **Off**. Once **On**, users can select a listed device to pair and connect to, rename their device, remove a device, or receive files.

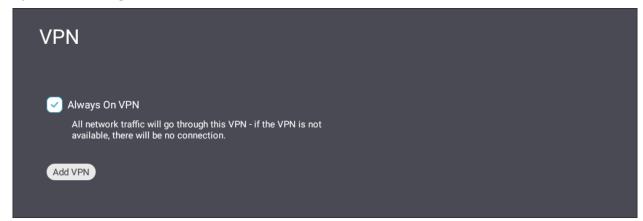
Bluetooth	
Status: On	Received files >
Device: IFP6562 Rename is visible to nearby devices while Bluetooth settings is opened.	
Available devices 🔇	
℁ MICHAEL-WU-T490	

• Tap Received files to show all received files.

Bluetooth	
Status: On	Received files >
Device: IFP6562 Rename is visible to nearby devices while Bluetooth settings is opened.	

VPN

Setup and manage Virtual Private Networks.

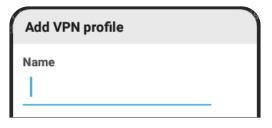


To create a VPN profile:

1. Go to: Settings > Network & Internet > VPN and tap Add VPN.

VF	PN	
	 Always On VPN All network traffic will go through this VPN - if the VPN is not available, there will be no connection. Add VPN 	

2. Key in the Name.



3. Select the VPN Type.

Туре
L2TP/IPSec PSK
L2TP/IPSec PSK
L2TP/IPSec RSA
IPSec Xauth PSK
IPSec Xauth RSA
IPSec Hybrid RSA

Choose to enable/disable PPP encryption (MPPE) and/or show Advanced options.

Add VPN profile
L2TP secret
(not used)
IPSec identifier
(not used)
IPSec pre-shared key
Advanced options $$
Username
Password
Ø
Cancel Save

File Sharing

SAMBA

The SAMBA Service provides file sharing via LAN. When the SAMBA Service is enabled, the user can explore the ViewBoard file system with a PC or mobile equipment.

1. Go to: Settings > File Sharing > SAMBA.

Sam	nba		
Status:			
Userna	ame: admin		
📃 Use	e password protection when sharing		
S	Set password		

2. Tap the toggle button to enable the SAMBA Service, then set a password if needed.

Samba
Status: On
Username: admin
✓ Use password protection when sharing
Set password

- **3.** Ensure the ViewBoard and client equipment are connected to the same network.
- **4.** Log in to the ViewBoard with the client equipment. Input the ViewBoard's IP address.

🖅 Run		×
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.	
<u>O</u> pen:	\\172.21.6.60	~
	OK Cancel <u>B</u> rowse	

5. Key in the user name and password, then select **OK** (if applicable).

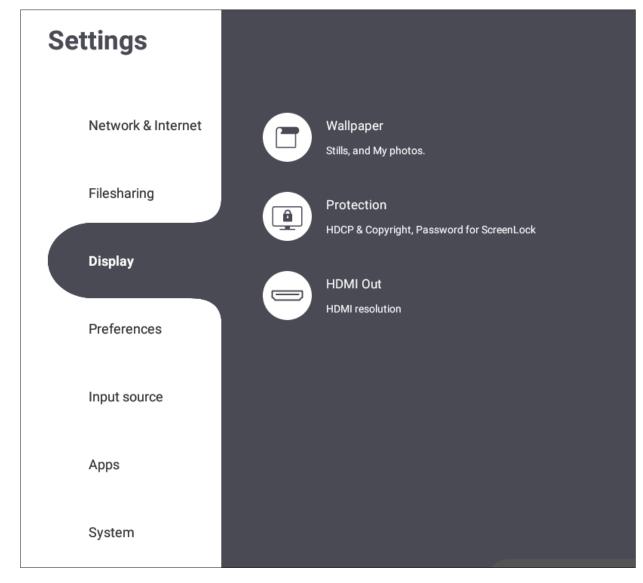
Windows Security	×
Enter network credentials	
Enter your credentials to connect to: 172.21.6.60	
User name	
Password	

6. After a successful log in, the ViewBoard files will be available.

$\leftarrow \rightarrow \ \cdot \ \uparrow \diamondsuit$	> Ne	twork > 172.21.6.60	~ じ	Search 172.21.6.60	م
📌 Quick access	*	share			
Downloads	*				
Documents	*				
Pictures	*				

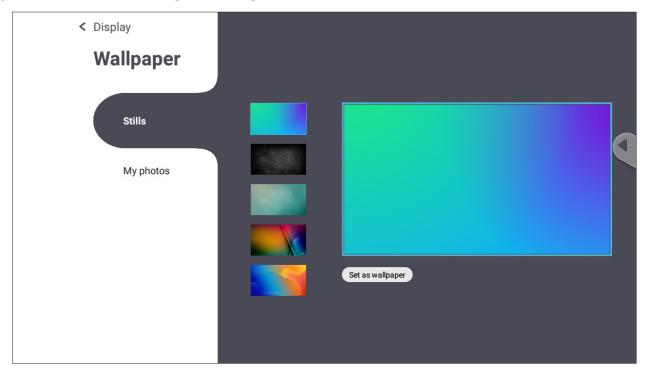
Display

Adjust the Wallpaper, Theme, Display ID, Protection, and HDMI Out settings.



Wallpaper

Users can change their wallpaper with default images, or use their own by tapping **My Photos** and selecting the image file.



Protection Toggle HDCP & Copyright and set a Password for Screen Lock.

Protection	
HDCP & Copyright CO HDCP is a secure protocol for protecting transmission of audio and video signals.	
Password for ScreenLock	
You must turn on this function with the ScreenLock APP after setting a password on this page.	
Set password	

• To set up a password for screen lock, tap **Set Password** and enter the desired password.

Set up password	
New password	
	Ø
Confirm password	
	Ø
Cancel	onfirm

HDMI Out

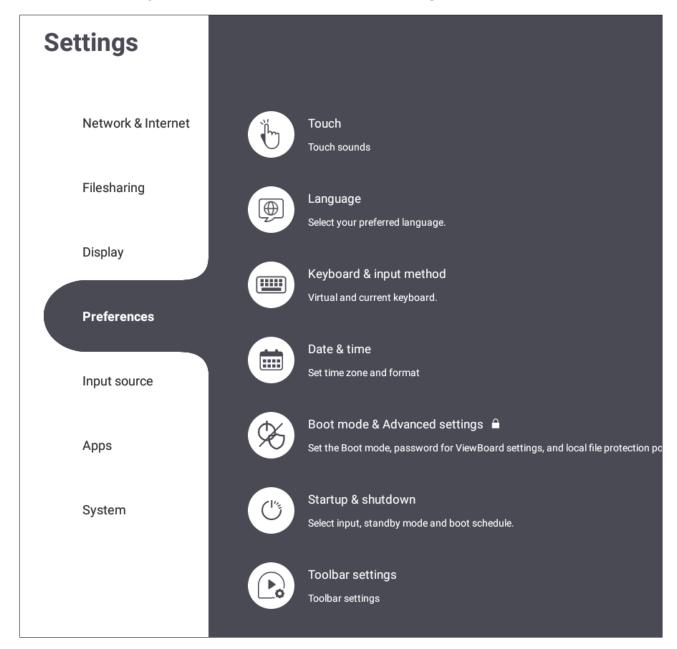
Adjust the HDMI Out Resolution setting and mute/unmute the display speaker when connected via HDMI Out.

NOTE: The mute/unmute option box is unchecked by default.



Preference

View and adjust Touch, Language, Keyboard & Input, Date & Time, Boot Mode & Advanced, Start up & Shut down, and Toolbar settings.



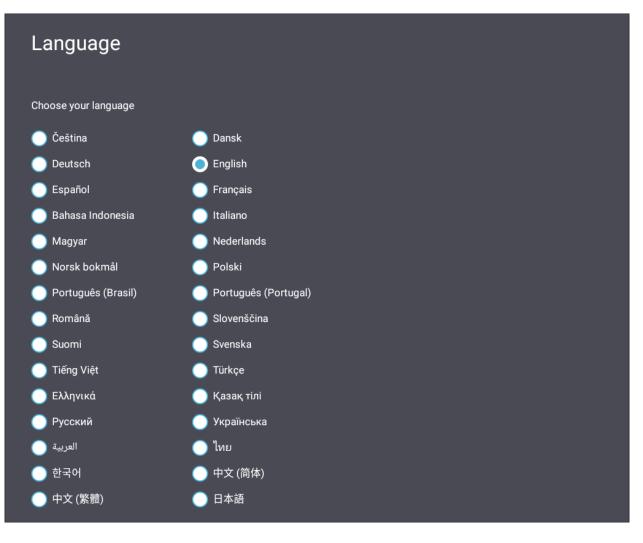
Touch

Adjust Touch Settings and toggle Touch Sounds and Windows Ink On/Off.

V Preferences		
Touch		
Touch sounds		

Language

Adjust and choose the preferred language from the available languages.



Keyboard & Input Method

Enable/disable the visual keyboard and/or change the default input method.

Keyboard & input meth	od		
Current keyboard O Player Keyboard (AOSP) - English (US)	Settings		(
🔵 Google Pinyin Keyboard - Chinese	Settings		· · · · · · · · · · · · · · · · · · ·
🔵 Zhuyin Keyboard - Chinese (Taiwan)	Settings		

• Tap on **Settings** to adjust the advanced keyboard settings.

Player Keyboard settings		
Language English (US)	>	
Appearance & Layout	>	
Advanced	>	

Date & Time

Set the system time and format.

Date & time	
Automatic date & time Use network provided time.	
2023/03/24 1:51 AM	
Time zone	
GMT+00:00 Greenwich Mean	n Time
Use 24-hour format	
Date format	
ltem	Description
Automatic Date & Time	When enabled, the ViewBoard will automatically synchronize the date and time via the Internet.
Time Zone	Select the appropriate time zone.
Use 24-hour Format	Choose from 12-hour or 24-hour time format. Simply toggle 24-hour format On/Off.
Date Format	Select from the available date formats.

Boot Mode

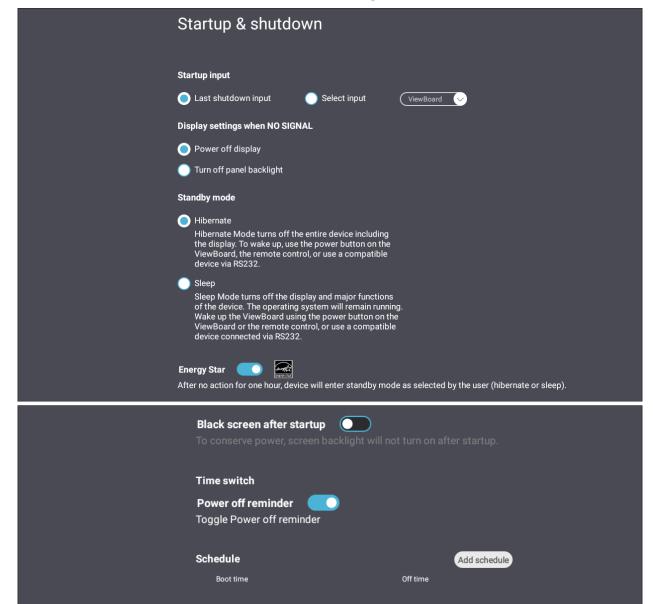
Adjust the preferred boot up mode and set/reset a password.

Boot mode & Advanced settings	
 Normal mode Launch startup programs, begin all services configured to start, and loads the hardware drivers you have installed as normal. Secure mode Removes embedded screen sharing apps such as V-Cast, E-Airplay, and Chrome Cast. Disable embedded OS The embedded OS will be disabled after reboot. 	3
Enable password for ViewBoard settings If enabled users will have to enter a password to open ViewBoard settings Boot mode and advanced settings password Reset password	
Color correction Monochromacy Deuteranomaly (red-green) Protanomaly (red-green)	
Tritanomaly (blue-yellow) Non-ViewBoard OS mode side toolbar settings Set side toolbar on/off for non-ViewBoard OS mode Reset ViewBoard	

Item	Description
Normal Mode	The embedded screen sharing Apps will run normally.
Secure Mode	The embedded screen sharing Apps will be removed.
Disable Embedded OS	The system will automatically reboot, and then the Embedded OS will not appear.
Enable Password for ViewBoard Settings	Toggle to lock/unlock the ViewBoard Settings.
Boot Mode and Advanced Settings Password	Modify the Boot mode and ViewBoard Settings entry password.
Color Correction	Color correct the ViewBoard display screen.
Non-ViewBoard OS Mode Side Toolbar Setting	Enable the side toolbar for non-ViewBoard OS.
Reset ViewBoard	Reset the ViewBoard to its factory default settings.

Startup & Shutdown

Set the Startup Input, Standby Mode, Energy Star, Black Screen After Startup, Power off Reminder timer and Schedule settings.



Item	Description
Startup Input	Adjust the Startup Input preference.
Display Setting when No Signal	Decide what happens to the display when there is no signal for HDMI, PC, or VGA sources.
Standby Mode	Decide what happens when you press the Power button while the ViewBoard is On.
Energy Star	Enable to automatically initiate Sleep Mode when the screen is idle for one hour.
Black Screen After Startup	When enabled, the ViewBoard will turn off the backlight automatically after booting up.

Item	Description
Time Switch Power Off Reminder	When enabled, the ViewBoard will turn off without any reminder after the scheduled off time.
Schedule	Schedule a Boot and Shut off time.

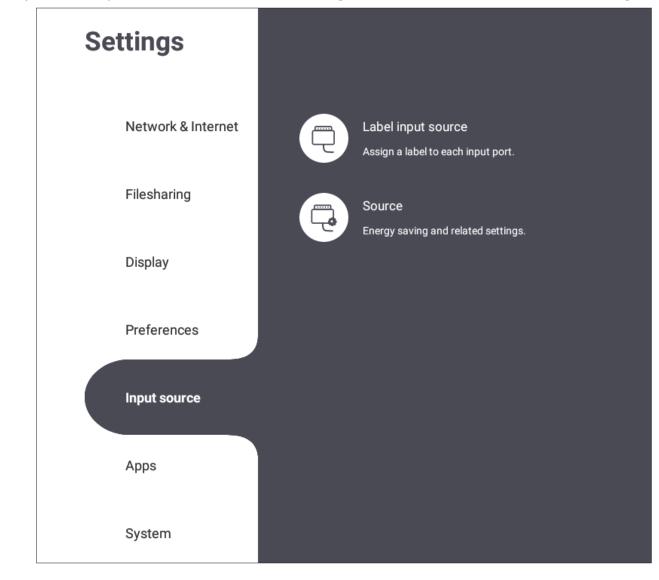
Toolbar Setting

Adjust the Side toolbar settings.

Toolbar settings			
Side toolbar settings			
Show side toolbar			
🔵 Hide side toolbar			
Disable in all input port source	s		

Input Source

Adjust the input source names and settings, as well as the side toolbar settings.



Rename Input Source

Set labels for each input source that will be easily recognized when displayed.

<	Input source				
	Label input source				
	Add a label to help you recogniz	e input ports easier.			
	Source	Label			
	ViewBoard	ViewBoard			
	HDMI1	HDMI1			
	HDMI2	HDMI2			
	HDMI3	HDMI3			
	HDMI IN	HDMI IN			
	Туре-С	Туре-С			
	VGA	VGA			

Source

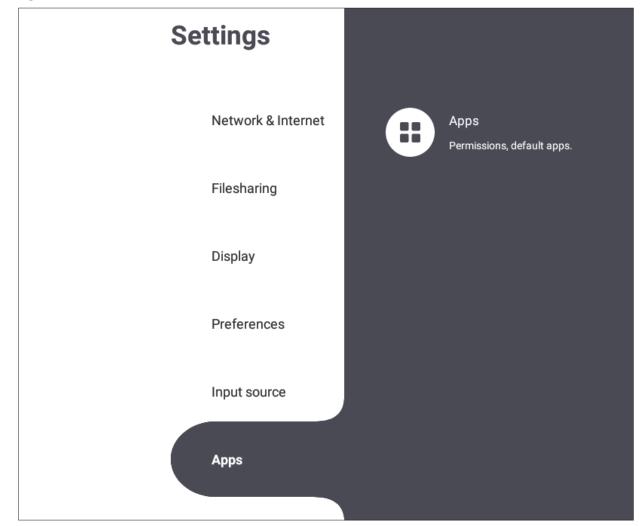
Toggle Wake up by active source, Signal auto search, and HDMI CEC and select Input port auto switch.

Source
Wake up by active HDMI input Image: Comparison of the section of
Auto search signal
Auto switch input ports
Plugging in a display cable will automatically change the display to that source.
On Off Manual selection
Energy saving
If no signal is received after the specificed time, the power will be turned off.
5 min
НДМІ СЕС ()
Control devices connected through HDMI using only one remote control.
Player on then display on (Need to set Standby Mode to Sleep first)
✓ Display off then player off
Player off then display off
Display on then player on
✓ IR pass through

Item	Description
Wake up by Active Source	The screen will turn on automatically after plugging in an HDMI cable when the screen is off.
Auto Search Signal	When enabled, if the current source does not have a signal, the ViewBoard will automatically search for an input source.
Auto Switch Input Ports	The original signal will automatically switch to a new cable after it's plugged in.
Energy Saving	Set a time period to power off if no signal is detected.
HDMI CEC	Enable/disable HDMI CEC functions.

Apps

The user can view application information and force stop, uninstall, move to USB storage, clear data, clear cache, and clear defaults.



NOTE:

- Pre-loaded apps cannot be uninstalled.
- Not all apps support the move to USB storage feature.
- Not all apps support Clear Defaults.

Apps

View any running or installed applications. Tap on them for more detailed information and options.

Apps				
Running	All	Downloaded		
Device memory	7.5 GB of 32	2 GB ROM storage used		
App (app data & media content 47 MB	t) 🛑 System 7.5 GB			
App RAM usage EAirplay 20.5 MB		Sort by name	OFF/ON	
OfficeSuite		2 process and 1 service		
vLauncher 0.4 MB		1 process and 1 service 01:10:29		
SideToolBar 0.1 MB		1 process and 1 service 01:08:43		
Folders 0.1 MB		1 process and 0 service 01:08:04		

• By tapping on a running application, you can see more information, stop, or report the application.

App info	
vCastRed Version v2.3	Disable Force stop
Notifications	
	cations may cause you to miss important alerts and updates.
	cations may cause you to miss important alerts and updates.
	cations may cause you to miss important alerts and updates. 81 KB Clear data
Turning off notific Storage	
Turning off notific Storage Total	81 KB Clear data
Turning off notific Storage Total App	81 KB Clear data 0 KB

• Selecting All, Download, or USB storage will list all installed applications.

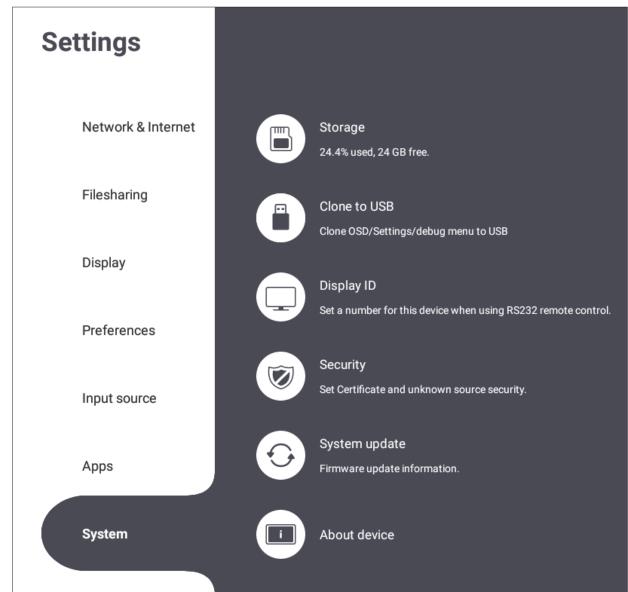
Apps				
Running	All	Downloaded		
Reset app preferences		Sort by name	OFF/ON	
EAirplay 20.5 MB			•	
CCast 2.2 MB				
OfficeSuite 0.6 MB				
vLauncher 0.4 MB				

• Tapping on any application will display further information and options.

App info		
VCastRe Version v2.		Disable Force stop
Notifications Turning off notifications may cause you to miss important alerts and updates.		
Storage		
Total	81 KB	Clear data
Арр	0 KB	
USB storage app	0 KB	
Data	53 KB	
USB storage data	0 KB	
Cache		
Cached data	28 KB	Clear Cache
Launch by defa	ult	
No defaults set.		Clear default
Permissions		
No permissions requested		

System

View and adjust Clone to USB, Display ID, Security, System Update, and About device settings.



Clone to USB

Copy settings to an external USB drive.

< ViewBoard					
Settings	5				
Network	Select the set	tings to copy			
Fileshari	Copy from OSD Settings		d, 24 GB free. JSB Settings/debug men	u to USB	
Display	Debug M	enu)		
Preferer	0407-0857 Copy to		er for this device whe	en using RS232 remote control.	
Input so	USB1		ite and unknown sou		
		Cancel	Ok		
Apps			Firmware update information.		

Display ID

Assign a number to remote control the display by RS-232/LAN.

Display ID
Assign a number for this device, for using the RS232 remote control function.
Display ID: 1
Edit ID

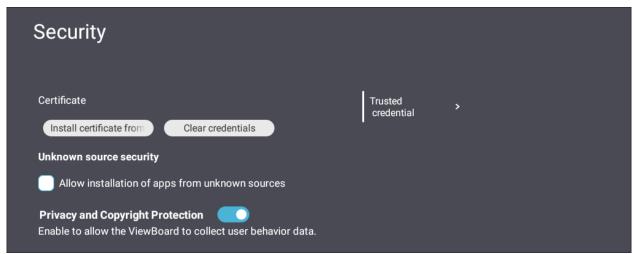
• To assign or change the Display ID, tap **Change** and input a number.

Disp	lay ID
Assign a n	number for this device, for using the RS232 remote control function.
Display	ID: Number from 1 to 98.
Save	Cancel

NOTE: The Display ID is for RS-232 users, and the range is 01~99.

Security

Review **Certificate**, **Trusted Credential** storage, and **Unknown sources** install settings.



- Tap on Install certificate from storage to add additional certificates.
- Selecting Clear Credentials will remove all manually installed credentials.

Security			
Certificate	Clear credentials	Trusted credential	
Unknown sourc Allow insta Privacy and Co	This action will remove all credentials which are manually installed. Continue? Cancel OK		

NOTE: Pre-loaded credentials cannot be cleared.

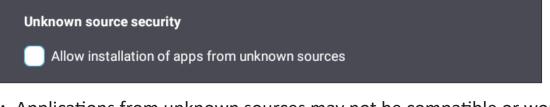
• Under Trusted Credentials view and edit all trusted and installed CA certificates.

Frusted credential		
	Manually installed	
AC Camerfirma S.A Security info Chambers of Commerce Root - 2008		
AC Camerfirma S.A Security info Global Chambersign Root - 2008		
AC Camerfirma SA CIF A82743287- § Chambers of Commerce Root	Security info	
AC Camerfirma SA CIF A82743287- § Global Chambersign Root	Security info	

• Tapping on a credential will provide more detailed information.



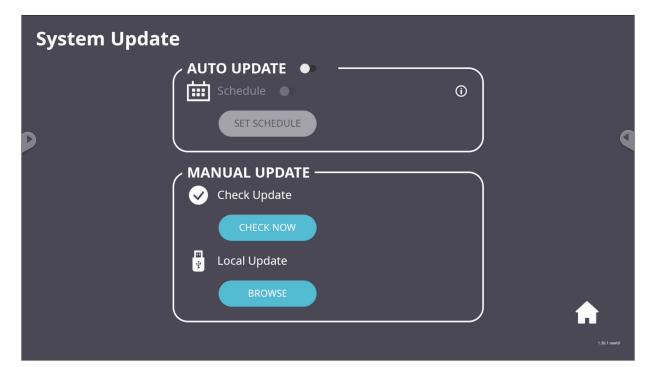
• Allow the installation of applications from unknown sources by selecting the box under **Unknown source security**.



NOTE: Applications from unknown sources may not be compatible or work properly.

System Update

The ViewBoard automatically searches for software updates whenever connected to the Internet (OTA). With just one click, users can update their version of ViewBoard software.



ltem	Description
Auto Update	When the display is off, the system will automatically check for a new version. If a new version is found, the system will automatically update. After the update is complete, the system will turn off.
Schedule	Set the update time.
Manual Update	Update the software manually.

About Device

Display Embedded Player information, Legal information, and Asset Tagging.

About de	evice		
Asset tagging:	Edit	Legal information	>
Serial number	11111111		
Model Number	IFP6562		
Android version	8.0.0		
Kernel version	4.9.44 rel@iip #4717 Wed Mar 1 16:27:15 CST 2023		
Build Number	ViewSonic/IFP6562/IFP6562:8.0.0/20230301.160732:	user/release-keys	

• By selecting **Edit**, the asset information can be adjusted.

About de	evice
Asset tagging:	Save Cancel Legal >
Serial number	1111111
Model Number	IFP6562
Android version	8.0.0
Kernel version	4.9.44 rel@iip #4358 Tue Oct 4 15:06:43 CST 2022
Build Number	ViewSonic/IFP6562/IFP6562:8.0.0/20221004.144722:user/release-keys

• Tap on Legal information to check open source licenses.

Legal information		
Open source licenses	>	
Open source licenses2	>	

Embedded Applications and Settings

Air Class

Display quiz questions on the ViewBoard and allow up to 30 mobile users to submit answers remotely. Whether deploying single or multiple choice questions, the ViewBoard will record the results for each device being used.



Air Class

Android phone/ tablet: scan QR Code to enter Air Class Other devices: Connect to the same network (Local Area Network) and enter the URL http://(enter your URL here):8080 to enter Air Class

Network Information

- PC (Windows/Mac/Chromebook) and tablet/mobile (iOS/Android) devices, as well as the ViewBoard need to be linked to the same LAN network subnet.
- Ports: TCP 8080

To launch Air Class:

- **1.** Tap the tool bar trigger icon and select the more tools icon. Then select the Air Class icon.
- 2. Select Enter the class.



3. Choose from the available interactive functions at the bottom of the screen.

	ž	Q	<u> </u>	2	R	2.	G
Voter	Judge	Responder	Selector	Grouping	Message	Manager	Exit

	ltem	Description
A B C D	Voter	Single and Multiple choice questions.
×<	Judge	True/False questions.
	Responder	Race to answer first.
	Selector	Randomly select a participant.
2	Grouping	Assign participants to groups.
	Message	Allow/Deny participants to direct message the ViewBoard.
20	Manager	Add participants.
	Exit	Exit Air Class.

<u>Voter</u>

1. Select the Single choice or Multiple choice icon to choose the preferred answer type.



2. Tap **BEGIN VOTING** to let the Participants start.



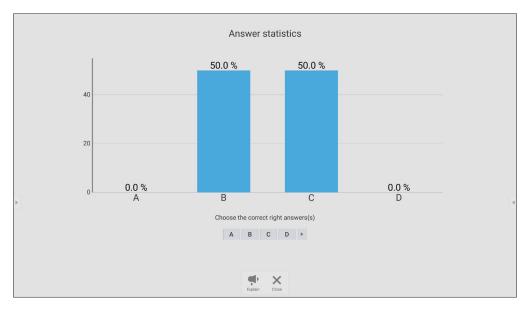
3. After the Participants are finished and press **OK**, the ViewBoard will show the Participant's name on screen.



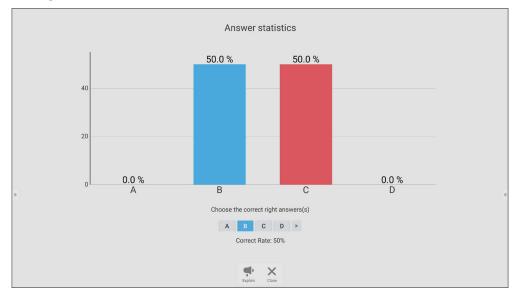
4. Tap FINISH VOTING to close the quiz.



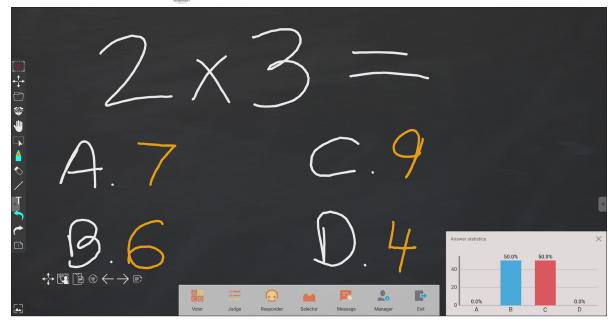
5. The Participants' "Answer Statistics" will be displayed.



6. Choose the right answer to show the correct rate.



7. Click the Explain icon () to further analyze the topic.



<u>Judge</u>

1. Tap **BEGIN VOTING** to let the Participants start a True/False questionnaire.



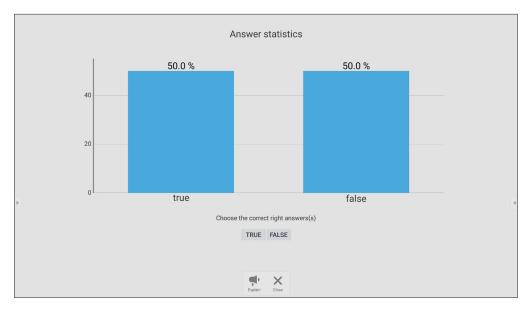
2. After the Participants are finished and press OK, the ViewBoard will show the Participant's name on screen.



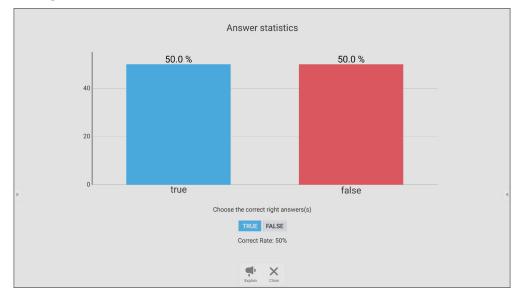
3. Tap **FINISH VOTING** to close the quiz.



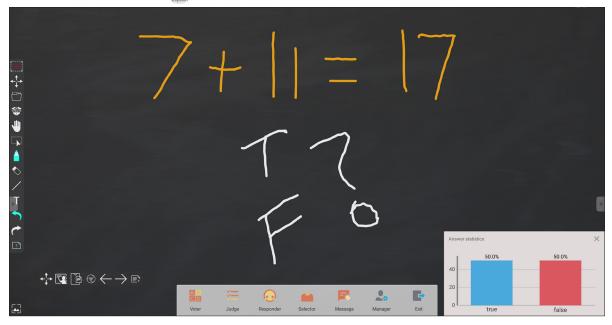
4. Then the Participants' "Answer Statistics" will be displayed.



5. Choose the right answer to show the correct rate.



6. Click the Explain icon (🐢) to further analyze the topic.



Responder

Participants race to select their answer and tap **OK** to submit their answer.

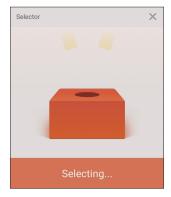


<u>Selector</u>

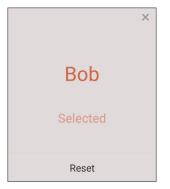
- 1. Select the "Selector' icon.
- 2. Set the number of Participants to be selected.



- **NOTE:** The number of Participants that can be selected will be based on the total number of Participants.
- 3. Tap START to start the random selection.



4. The selected Participant's name will then be displayed.

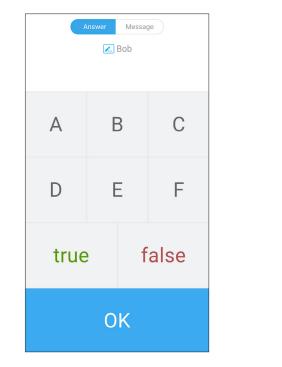


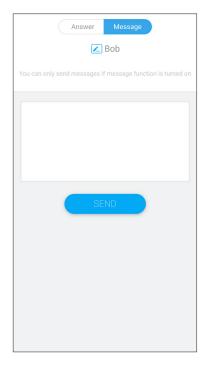
Grouping

Select the icon to assign Participants to groups.

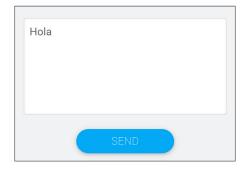
<u>Message</u>

- To allow messaging:
- **1.** Tap the "Message" icon to enable the function.
- 2. Participants select Message to change to the message interface.





3. Participants key in their message then select SEND.



4. The message will scroll across the top of the ViewBoard.

Manager

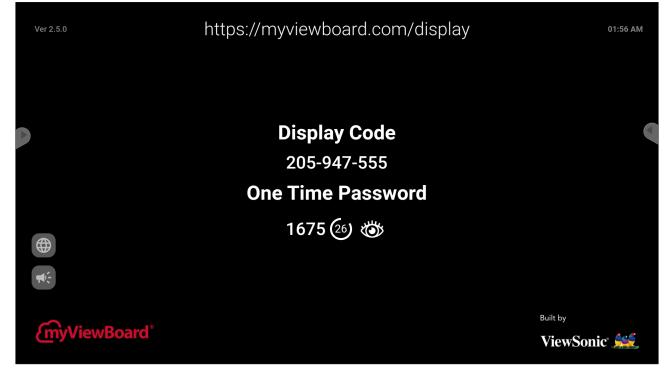
Select the icon to let more Participants join the class.

<u>Exit</u>

Select to exit the Air Class interface.

myViewBoard Display

Wirelessly mirror screens to a larger display.



To share a screen to a ViewBoard with myViewBoard Display:

- **1.** Open myViewBoard Display on the ViewBoard you want to share your screen to.
- 2. On the device you want to share the screen from, go to: <u>https://myviewboard.</u> <u>com/display</u>.
- **3.** Enter the **Display Code** and **One Time Password** for the ViewBoard you wish to share to.

NOTE: Note that the password refreshes every 30 seconds.

myViewBoard Live

Stream whiteboarding sessions.

ViewBoard 9:30 AM Better Learning Within Reach Tuesday 2022-05-31	
Image: Chromium Folders Whiteboard Display	Stream URL: Tream URL: Stream Key:
Ebenet	Record the stream

A **Stream URL** and a **Stream Key** are needed to begin live streaming. The **Stream URL** is automatically shown after selecting the streaming service in myViewBoard Live.

NOTE: The **Stream Key** will come from the streaming service chosen.

On myViewBoard Live:

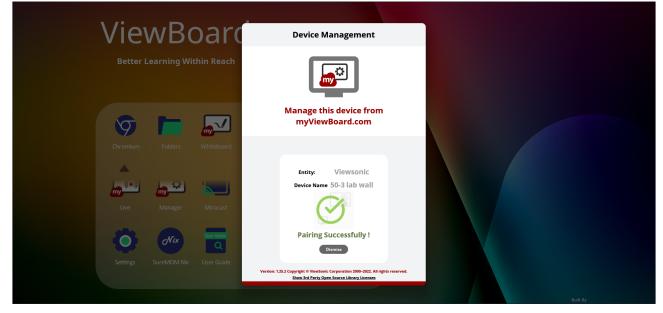
- 1. Launch myViewBoard Live.
- **2.** Input the required information.
- **3.** Select the **Record the stream** checkbox to record a copy of the stream to the ViewBoard (if applicable).
- 4. Tap the arrow icon to start the stream.

On the dashboard of the chosen streaming service:

- **1.** Verify that it is able to successfully receive the stream.
- 2. To stop the stream, locate and click the 'End Stream' button on the chosen service's dashboard.
 - **NOTE:** To learn more about myViewBoard Live, visit: <u>https://wiki.myviewboard.</u> <u>com/MyViewBoard_Live</u>.

myViewBoard Manager

Remotely manage multiple installations of ViewSonic devices.



Once devices are set up and have myViewBoard Manager installed, they can be added to the entity and managed remotely from the Manager web application.

NOTE: Only available to Entity Admins from myviewboard.com after signing in.

Add a Device

On the device to manage:

- 1. Download and install myViewBoard Manager.
- 2. Open myViewBoard Manager and note the 6-digit PIN displayed.

In the myViewBoard Manager web application on myviewboard.com:

- 1. Click Add Device.
- 2. Input the 6-digit PIN obtained earlier.
- **3.** Name the device (if applicable).
- 4. Click Add.
 - **NOTE:** To learn more about myViewBoard Manager, visit: <u>https://wiki.</u> <u>myviewboard.com/MyViewBoard_Manager</u>.

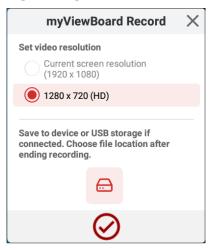
myViewBoard Record

Capture everything that is displayed on screen in a video format.

Preview		×
	ViewBoard 9:20 AM Better Learning Within Reach Tuesday 2022-05-31	
D	Chromium Folders Whiteboard Display	
	t anar Exam	nuit sy ViewSonic: 💒
00.00:02 / 00:00:12		B

To launch the screen recording application:

- 1. Select the myViewBoard Record icon in the application drawer.
- **2.** Select the preferred recording configurations.

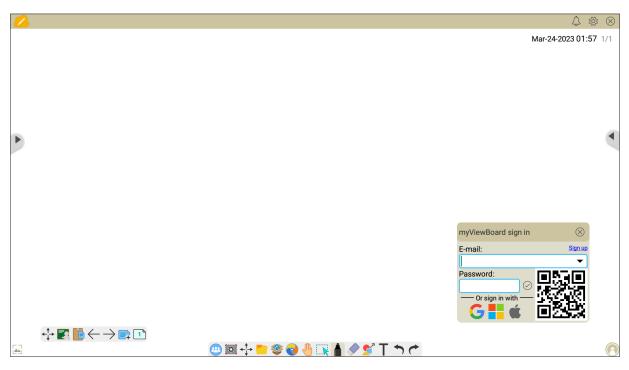


- **3.** Tap the check mark and a three (3) second countdown will begin. Screen recording will begin immediately after the countdown.
- **4.** After stopping the recording, you will be able to preview the video, save it, or discard it.

myViewBoard Whiteboard

A digital whiteboarding application.

NOTE: To learn more about myViewBoard Whiteboard, visit: <u>https://wiki.</u> <u>myviewboard.com/Whiteboard_for_Android</u>.



Floating Toolbar

	ltem	Description
← ↓	Move	Move the Floating Toolbar.
	Present Mode	Switch between presentation and preparation modes.
	Paste from Clipboard	Insert the current clipboard content onto the canvas.
\leftarrow	Previous Page	Go to the previous page (if the canvas has multiple pages).
\rightarrow	Next Page	Go to the next page (if the canvas has multiple pages).
+	New Page	Add a new canvas.
	Pages in Whiteboard	Create, select, rearrange, copy and delete pages.

<u>Main Toolbar</u>

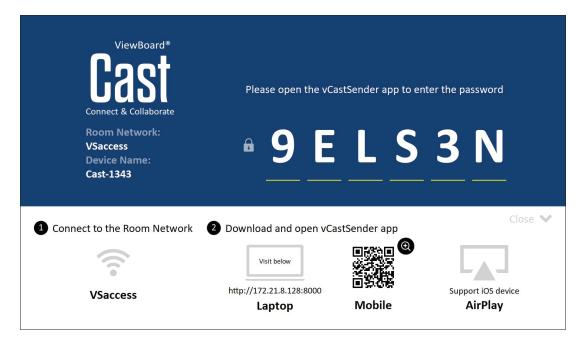
	ltem	Description
	Screen Capture	Screenshot, video, and audio recording.
$\stackrel{\uparrow}{\overset{\downarrow}{\overset{\downarrow}{\overset{\downarrow}{\overset{\downarrow}}{\overset{\downarrow}{\overset{\downarrow}}{\overset{\downarrow}{\overset{\downarrow}}{\overset{\downarrow}{\overset{\downarrow}}{\overset{\downarrow}}{\overset{\downarrow}{\overset{\downarrow}}{\overset{\downarrow}{\overset{\downarrow}}{\overset{\downarrow}}{\overset{\downarrow}{\overset{\downarrow}}{\overset{\downarrow}}{\overset{\downarrow}}{\overset{\downarrow}{\overset{\downarrow}}{\overset{\downarrow}}{\overset{\downarrow}{\overset{\downarrow}}{\overset{\downarrow}}{\overset{\downarrow}{\overset{\downarrow}}{\overset{\downarrow}}{\overset{\downarrow}}{\overset{\downarrow}{\overset{\downarrow}}{\overset{\downarrow}}{\overset{\downarrow}}{\overset{\downarrow}{\overset{\downarrow}}{\overset{\iota}}{}{\overset{\iota}}}{\overset{\iota}}{}{\overset{\iota}}{}{\overset{\iota}}{\overset{\iota}}{\overset{\iota}}{\overset{\iota}}{$	Move	Select and hold to move the toolbar to the left side, right side, or bottom of the screen.
	File	Open, save, export, and print whiteboard files.
	Magic Box	Import resources (image, video, audio, etc.) to the whiteboard.
0	Embedded Browser	Open the built-in browser to access internet resources, which can be dragged onto the canvas.
	Infinite Canvas	Drag to move the canvas. Use two hands to zoom in/ zoom out. Select again for an overview.
	Selection	Select objects, text, and other elements on the canvas.
Â	Pen	Writing tools and customization options.
	Eraser	Erase objects or clear the page.
*	Shapes and Lines	Draw shapes, arrows, and add tables.
Τ	Text and Handwriting	Add a text box.
	Undo	Undo the previous action.
(Redo	Redo the previous action.

Background Management

	ltem	Description
	Sign In	Sign in to a myViewBoard account.
	Background Management	Change the canvas background.
(FollowMe Setting	Display custom images uploaded to a cloud storage account.
	Color Palette	Choose from solid or gradient colors as the background.
	Pre-installed	Choose backgrounds that come pre-installed with Whiteboard.
	myViewBoard Originals	Display original content created by myViewBoard.
	Local Hard Drive	Use images from the local hard drive.

ViewBoard Cast

Working with ViewBoard[®] Cast software, the vCastReceiver application, will allow the ViewBoard[®] to receive vCastSender laptop screens (Windows/Mac/ Chrome) and mobile (iOS/Android) users' screens, photos, videos, annotations, and camera(s).



Network Information

- ViewBoard[®] Cast software, laptops, and mobile devices can connect to both the same subnet and across the subnet network.
- 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.

ViewBoard Cast is a wireless peer to peer data communication, therefore the below port settings are required:

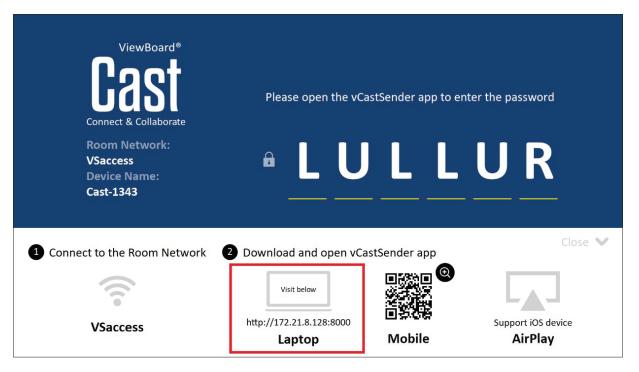
Ports:

- CP: 56789, 25123, 8121, and 8000
- UDP: 48689 and 25123

Port and DNS activation:

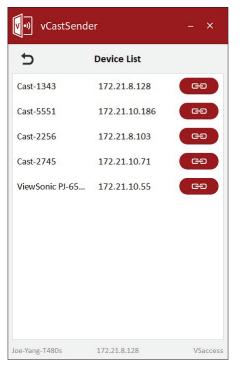
- Port: 8001
- DNS: h1.ee-share.com

Cast Sender from Windows-based, Macbook, and Chrome devices.

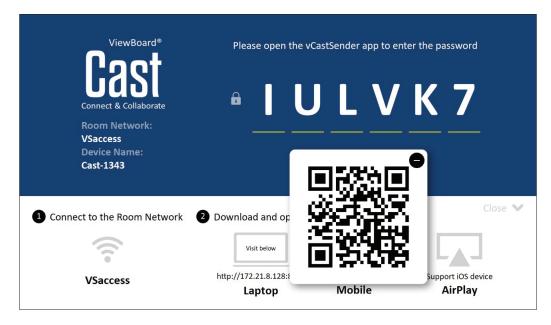


Mac, Windows, Chrome Devices:

- **1.** Make sure your device is connected to the same network as the ViewBoard.
- 2. Visit the address that is shown on the ViewBoard to download the application.
- **3.** Launch the application and click the connect icon next to the Device Name.



NOTE: If the device is not listed, click **Connect with PIN-Code** and input the pincode displayed on the ViewBoard. Cast Sender from Mobile Devices: iOS-based (iPhone, iPad) and Android OS based phone/tablet.

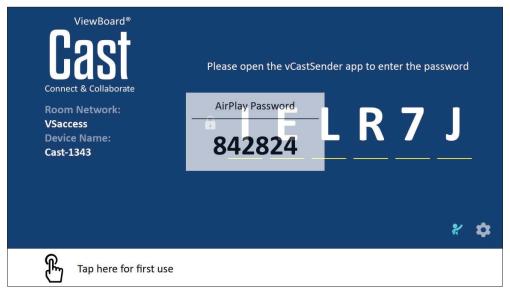


Android/iOS:

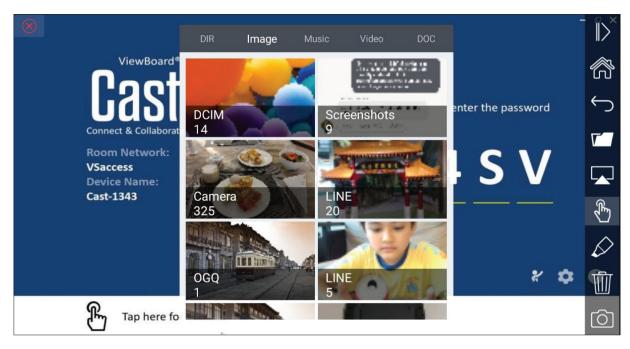
- **1.** Make sure your device is connected to the same network as the ViewBoard.
- **2.** Scan the QR Code that is shown on the ViewBoard to download directly from the server, or download from the Google Play Store or the Apple Store.
- **3.** Launch the application and select the correct Device Name and input the pin to connect. You can also directly input the pin-code displayed on the ViewBoard to connect.

Apple AirPlay[®]:

- **1.** Make sure your device is connected to the same network as the ViewBoard.
- 2. Directly open AirPlay and select the Device Name to connect.
- **3.** Another "AirPlay Password" will be generated on-screen for connection.



Cast Out from a Mobile Device that Supports Annotation



	ltem	Description
	Toggle	Hide or display the toolbar.
	Home	Return to the Home interface.
\leftarrow	Return	Return to the previous operation interface.
[]	Folder	View or open the mobile device's internal file.
	Screen sharing	Share the screen. NOTE: Android 5.0 and above supported.
Ł	Touch	Change to touch mode.
\Diamond	Pen	Make annotations, and change the color and thickness.
Ŵ	Clear	Clear everything on the screen.
Ó	Camera	Use the camera and send the image to the ViewBoard.

Other Default Applications

Chromium

Web browser for surfing the Internet.

9 Ne	ew tab			× +							
	\leftarrow	\rightarrow	G	i Search or type	web address					☆	± :
					C	•	G	G			
					The Chromi	Chromium	Git Reposito	Google Ope			
					F	G	C				
					freenode	Github Pag	Chrome Fla	Top sites			
					Discover - off				\$		

Folders

1	Folders 3	
Storage USB1	All Doc Note Picture Media Image: Display black Image: Display black Image: Display black 2017-1135.png	4 () () () () () () () () () ()
F	2	2017-11-01-16-27-35.png Dimension: 1920-1080 Size: 323.6768 Time: 2017/11/01

1. Storage Device Display

Select the appropriate storage device.

2. Icons

	ltem	Description
÷	Exit	Exit Folders
000	Sort	Sort the files
	Thumbnail	Display files by thumbnail view
	List	Display files by list view
\checkmark	Select	Select a file
<u> </u>	Add folder	Add a folder
Ē	Сору	Copy a file
	Paste	Paste a file
X	Cut	Cut a file
	Delete	Delete a file
A	Rename	Rename a file
$\overline{\cdots}$	More	Show more functions

3. File Type Menu

ltem	Description
All	All types
Doc	Office files
Note	Images stored by myViewBoard, Side Tool Bar, and remote control Screen Capture button.
Picture	Image files
Media	Audio and Video files

4. File Information

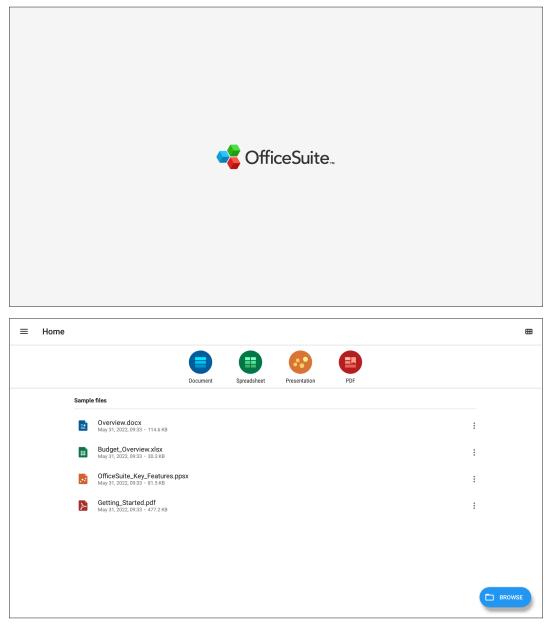
Preview the file, show the file's name, size, resolution, and creation date.

5. Main Display Area

Display files of corresponding type.

OfficeSuite

Create, edit, and view Documents, Spreadsheets, Presentations, and PDFs.



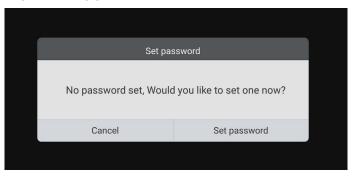
Screen Lock

Set a screen lock password and enable screen lock.

NOTE: If the user forgets the password, use the remote control and press **INPUT-0-2-1-4** to restore the password to default.

To set a screen lock password:

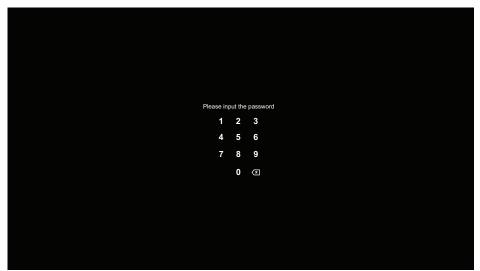
- Go to: Settings > Display > Password for screen lock, or select the Screen Lock icon in the applications list.
 - **NOTE:** If you select the Screen Lock icon and no password has been set, the below prompt will appear:



2. Select Set Password, and input a new four (4) digit password. Then select OK.

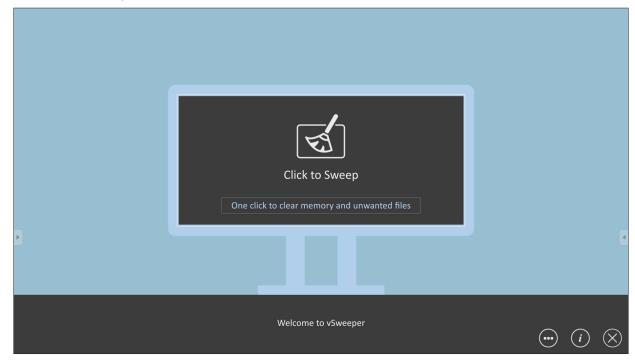
<	Display
	Protection
	HDCP & Copyright This is a form to prevent copying of digital audio & video content as it travels across connections.
	Password for screen Lock You must turn on this function by ScreenLock APP after set password in this page.
	SET PASSWORD

3. Now when selecting the Screen Lock icon, the screen will be locked.



vSweeper

Clear unnecessary data and unwanted files.



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

	Main Preference Clear all 	Auto Clear Interval	
	Auto clear all junk files when the app starts Exit after clearing Exit after the clear button is clicked and the clean up has completed Auto Clear Auto clear interval Automatically clear all caches 	 No auto clear 1 hour 3 hours 6 hours 12 hours 	 1 day 2 days 1 week
*	Auto clear on boot Automaticaly clear caches on system startup Advanced Settings		 (i) ×

RS-232 Protocol

This document describes the hardware interface spec and software protocols of RS232 interface communication between ViewSonic LFD and PC or other control units with RS232 protocol.

The protocol contains three command sections:

- Set-Function
- Get-Function
- Remote control pass-through mode
 - **NOTE:** Below, "PC" represents all the control units that can send or receive the RS232 protocol command.

Description

RS232 Hardware Specification

ViewSonic LFD communication port on the rear side:

- 1. Connector type: DSUB 9-Pin Male (or 3.5 mm barrel connector)
- 2. Use of crossover (null modem) cable for connection
- 3. Pin Assignment:

Female DSUB 9-Pin



Male DSUB 9-Pin 1 2 3 4 5



3.5 mm barrel connector (alternative for limited space)



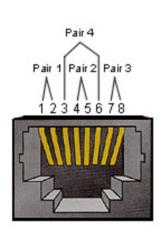
Pin #	Signal	Remark
1	NC	
2	RXD	Input to Display
3	TXD	Output from Display
4	NC	
5	GND	
6	NC	
7	NC	
8	NC	
9	NC	Provide +5V/2A power for external specific dongle *3.0
frame	GND	

Item	Signal	Remark
Тір	TXD	Output from Display
Ring	RXD	Input to Display
Sleeve	GND	

LAN Hardware Specification

ViewSonic LFD communication port on the rear side:

- **1.** Connector type: 8P8C RJ45
- **2.** Pin Assignment:



Pin #	Signal	Remark			
1	TX+	Output from Display			
2	TX-	Output from Display			
3	RX+	Input to Display			
4	BI_D3+	For 1G case			
5	BI_D3-	For 1G case			
6	RX-	Input to Display			
7	BI_D4+	For 1G case			
8	BI_D4-	For 1G case			
frame	GND				

RS232 Communication Setting

Baud Rate Select: 9600bps (fixed)
Data bits: 8 bits (fixed)
Parity: None (fixed)
Stop Bits: 1(fixed)

LAN Communication Setting

- Туре:	Ethernet
- Protocol:	TCP/IP
- Port:	5000 (fixed)
- Cross subnet:	No
- Logon Credentials:	No

Command Message Reference

PC sends to LFD command packet followed by "CR". Every time PC sends control command to Display, the Display shall respond as follows:

- If the message is received correctly it will send "+" (02Bh) followed by "CR" (00Dh)
- If the message is received incorrectly it will send "-" (02Dh) followed by "CR" (00Dh)

Protocol

Set-Function Listing

The PC can control the Display for specific actions. The Set-Function command allows you to control the Display behavior at a remote site through the RS232 port. The Set-Function packet format consists of 9 bytes.

Set-Function Description:

Length:	Total Byte of Message excluding "CR"			
LFD ID	Identification for each of Display (01~98; default is 01) ID "99" means to apply the set command for all connected displays. Under such circumstances, only ID#1 display has to reply. The LFD ID can be set via the OSD menu for each Display.			
Command Type	Identify command type, "s" (0x73h): Set Command "+" (0x2Bh): Valid command Reply "-" (0x2Dh): Invalid command Reply			
Command:	Function command code: One byte ASCII code.			
Value[1~3]:	Three bytes ASCII that defines the value.			
CR	0x0D			

Set-Function Format

Send: (Command Type="s")

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Byte Count	1 Byte	2	1 Byte	1 Byte	1 Byte	1 Duto	1 Duto	1
Count	т вуге	Byte	т буте	т вуте	т вуге	1 Byte	1 Byte	Byte
Bytes	1	2~3	Λ	5	6	7	Q	q
order	. 1 25	2 3	4	5	0	/	0	9

Reply: (Command Type="+" or "-")

Name	Length	ID	Command Type	CR
Byte Count	1 Byte	2 Byte	1 Byte	1 Byte
Bytes order	1	2~3	4	5

NOTE: When PC applies command to all displays (ID=99), only the #1 set needs to reply by the name of ID=1.

Example 1: Set Brightness as 76 for Display (#02) and this command is valid Send (Hex Format)

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x32	0x73	0x24	0x30	0x37	0x36	0x0D

Reply (Hex Format)

Name	Length	ID	Command Type	CR
Hex	0x34	0x30 0x32	0x2B	0x0D

Example 2: Set Brightness as 75 for Display (#02) and this command is NOT valid

Send (Hex Format)

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x32	0x73	0x24	0x30	0x37	0x35	0x0D

Reply (Hex Format)

Name	Length	ID	Command Type	CR
Hex	0x34	0x30 0x32	0x2D	0x0D

Set-Function Table

A. Basic Function

Set Function	Length	ID	Command	Comr	nand	Value Range	Comments
			Type (ASCII)	Code (ASCII)	Code (Hex)	(Three ASCII bytes)	
Power on/ off (standby)	8		S	!	21	000: STBY 001: ON	1. The Power-on via LAN control may works only under specific mode. To see display UG for details. *3.1.1 2. "WOL by MAC address" may avail- able as alterna- tive.*3.2.1
Input Select	8		S	ű	22	000: TV 001: AV 002: S-Video 003: YPbPr 004: HDMI1 014: HDMI2 024: HDMI3 034: HDMI4 005: DVI 006: VGA1 016: VGA2 026: VGA3 007: Slot-in PC (OPS/SDM)/HDBT 008: Internal memory 009: DP 00A: Embedded/ Main (Android)	 No need for USB For the case of two more same sources, the 2nd digital is used to indicate the extension. The HEX of 00A is 30 30 41.
Brightness	8		S	\$	24	000 ~ 100 900: Bright down (-1) 901: Bright up (+1) *3.1.1	
Backlight*3.2.0	8		A	В	42	000 ~ 100	 For Android platform whose main mode is controlled by backlight and the other sources are controlled by bright- ness. Derived from Color calibration. *3.2.0
Power lock	8		S	4	34	000: Unlock 001: Lock	*See note in details
Volume	8		S	5	35	000 ~ 100 900: Volume down(-1) 901:Volume up(+1)	
Mute	8		S	6	36	000: OFF 001: ON (mute)	

Button lock	8	S	8	38	000: Unlock 001: Lock	*See note in details
Menu lock	8	S	>	3E	000: Unlock 001: Lock	*See note in details
Number *3.1.1	8	S	@	40	000~009	
Key Pad *3.1.1	8	S	A	41	000: UP 001: DOWN 002: LEFT 003: RIGHT 004: ENTER 005: INPUT 006: MENU/(EXIT) 007: EXIT	
Remote Control	8	S	В	42	000: Disable 001: Enable 002: Pass through	Disable: RCU will be no function Enabled: RCU con- trols normally Pass through: Display will bypass the RC code to con- nected device via the RS232 port, but not react itself.
Restore default	8	S	~	7E	000	Recover to factory setting

NOTE:

1. Behavior at Lock Modes

Lock Mode	Behavior
Button Lock	 Lock all buttons on the front panel and RCU, except for "Power" All the SET functions should be workable via RS32, even the ones with according hot key in RCU like Mute,etc.
MENU Lock	 Lock "MENU' key of front panel and RCU The Factory and Hospitality modes should not be blocked for the model using MENU-combined key to enter these two modes. Alternative approach will be indicated separately if any limitation by model.
POWER Lock	 Lock "POWER" key on the front and RCU. The SET_POWER on/off should be workable via RS232, but does not mean the POWER lock will be released under this case. Can not be unlocked by reset in OSD setting Will auto AC power-on in power-lock Under power-lock, the set will not enter power saving when no PC signal and neither not turn off when no other video signals after 15 minutes.
Remote control disable	Lock the RCU keys, but keep the front panel buttons workable.

2. Wake-on-LAN by MAC address as alternative for SET Power on

(Length=126 Bytes)

6 Bytes	6 Bytes (#1)	6 Bytes (#2)	 6 Bytes (#16)	24 Bytes
OxFF FF FF	MAC address	MAC address	 MAC address	0x00 00 00

B. Optional Function

Set Function	Length	ID	Command	Com	mand	Value Range	Comments
			Type (ASCII)	Code (ASCII)	Code (Hex)	(Three ASCII bytes)	
Contrast	8		S	#	23	000 ~ 100	
Sharpness	8		s	%	25	000 ~ 100	
Color	8		s	&	26	000 ~ 100	
Tint	8		s	"	27	000 ~ 100	
Backlight On_Off	8		S	(29	000: Off 001: On	
Color mode	8		S)	29	000: Normal 001: Warm 002: Cold 003: Personal	
Surround sound	8		S	-	2D	000: OFF 001: ON	
Bass	8		s		2E	000 ~ 100	
Treble	8		S	/	2F	000 ~ 100	
Balance	8		s	0	30	000 ~ 100	050 is central
Picture Size	8		S	1	31	000: FULL (16:9) 001: NORMAL (4:3) 002: REAL (1:1) *3.1.0	
OSD language	8		S	2	32	000: English 001: French 002: Spanish	Could be extend- ed for more sup- ported languages by model
PIP-Mode	8		S	9	39	000: OFF 001: PIP(POP) 002: PBP	
PIP-Sound select	8		S	:	3A	000: Main 001: Sub	
PIP-Position	8		S	•	3В	000: Up 001: Down 002: Left 003: Right	
PIP-Input	8		S	7	37 *2.9	000: TV 001: AV 002: S-Video 003: YPbPr 004: HDMI1 014: HDMI2 024: HDMI3 034: HDMI4 005: DVI 006: VGA1 016: VGA2 026: VGA3 007: Slot-in PC (OPS/SDM)/HDBT 008: Internal memory 009: DP 00A: Embedded/ Main (Android)	Value range is same as SET- Input select

Tiling-Mode	8	S	Р	50	000: OFF 001: ON	(for video wall)
Tiling-Compen- sation	8	s	Q	51	000: OFF 001: ON	(for video wall) Bezel width com- pensation
Tiling-H by V Monitors	8	S	R	52	01x~09x: H 0x1~0x9: V	(for video wall) 1. 2nd digital for H monitors 2. 3rd digital for V monitors
Tiling-Position	8	S	S	53	001~025	(for Video wall) Copy the screen of Position# to identified display
Date: Year	8	s	V	56	Y17~Y99	Last 2 digits (20)17~(20)99
Date: Month	8	s	V	56	M01~M12	2 digits
Date: Day	8	S	V	56	D01~D31	2 digits
Time: Hour	8	s	W	57	H00~H23	24-hr format. 2 digits.
Time: Min	8	S	W	57	M00~M59	2 digits
Time: Sec	8	S	W	57	S00~S59	2 digits

NOTE:

1. Tiling definition of H Monitors, V Monitors, and Position

	ſ		H MONITORS			1
	1	2	3	4	5	-Position
RS	6	7	8	9	10	
V MONITORS	11	12	13	14	15	
~	16	17	18	19	20	
	21	22	23	24	25	

2. Set Date example

Date: 2017-3/15

Send: 0x 38 30 31 73 56 59 31 37 0D ("Y17")

Send: 0x 38 30 31 73 56 4D 30 33 0D ("M03")

Send: 0x 38 30 31 73 56 44 31 35 0D ("D15")

3. Set Time example

Time: 16:27:59

Send:	0x 38 30 31 73 57 48 31 36 0D ("H16")
-------	---------------------------------------

- Send: 0x 38 30 31 73 57 4D 32 37 0D ("M27")
- Send: 0x 38 30 31 73 57 53 35 39 0D ("S59")

Get-Function Listing

The PC can interrogate the LFD for specific information. The Get-Function packet format consists of 9 bytes which is similar to the Set-Function packet structure. Note that the "Value" byte is always = 000.

Get-Function Description:

Length:	Total Byte of Message excluding "CR".
TV/DS ID	Identification for each of TV/DS (01~98; default is 01).
Command Type	Identify command type, "g" (0x67h) : Get Command "r" (0x72h) : Valid command Reply "-" (0x2Dh) : Invalid command Reply
Command:	Function command code: One byte ASCII code.
Value[1~3]:	Three bytes ASCII that defines the value.
CR	0x0D

Get-Function Format

Send: (Command Type="g")

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Byte Count	1 Byte	2	1 Byte	1 Byte	1 Byte	1 Byte	1 Byte	1
Count	т Буге	Byte	т вуте	т вусе	труге	т Буге	труге	Byte
Bytes order	1	2~3	4	5	6	7	8	9

Reply: (Command Type="r" or "-")

If the Command is valid, Command Type = "r"

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Byte Count	1 Byte	2	1 Byte	1 Byte	1 Byte	1 Byte	1 Byte	1
Count	т Буге	Byte	I Dyte	I Dyte	т Буге	т Буге	труге	Byte
Bytes order	1	2~3	4	5	6	7	8	9

If the Command is NOT valid, Command Type = "-"

Name	Length	ID	Command Type	CR
Byte Count	1 Byte	2 Byte	1 Byte	1 Byte
Bytes order	1	2~3	4	5

Example 1: Get Brightness from TV-05 and this command is valid. The Brightness value is 67.

Send (Hex Format)

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x35	0x67	0x62	0x30	0x30	0x30	0x0D

Reply (Hex Format)

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x35	0x72	0x62	0x30	0x36	0x37	0x0D

Example 2: Get Color from Display (#05), but the Color command is not supported by this model.

Send (Hex Format)

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x35	()v6/	0x26	0x30	0x30	0x30	0x0D

Reply (Hex Format)

Name	Length	ID	Command Type	CR
Hex	0x34	0x30 0x35	0x2D	0x0D

Get-Function Table

A. Basic Function

Get Function	Length	ID	Command	Comr	nand	Response Range	Comments
			Type (ASCII)	Code (ASCII)	Code (Hex)	(Three ASCII bytes)	
Get-Brightness	8		g	b	62	000 ~ 100	
Get-Backlight*3.2.0	8		а	В	42	000 ~ 100	 For Android platform whose main mode is controlled by backlight and the other sources are controlled by bright- ness. Derived from Color calibration. *3.2.0
Get-Volume	8		g	f	66	000 ~ 100	
Get-Mute	8		g	g	67	000: Off 001: On (muted)	
Get-Input select	8		g	j	6A	000~ 100~	 1st digit for signal detection: 0 means "no signal"; 1 means "signal detected" 2nd &3rd digit: See Set-function table
Get-Power status: ON/ STBY	8		g	I	6C	001: ON 000: STBY	
Get-Remote control	S		g	n	6E	000: Disable 001: Enable 002: Pass through	Get RCU mode status
Get-Power lock	8		g	0	6F	000: Unlock 001: Lock	
Get-Button lock	8		g	р	70	000: Unlock 001: Lock	
Get-Menu lock	8		g	I	6C	000: Unlock 001: Lock	
Get-ACK	8		g	Z	7A	000	This command is used to test the com- munication link
Get-Thermal	8		g	0	30	000~100: 0~+100 deg C -01~-99: -1~-99 deg C	
Get-Operation time*3.2.0	8		g	1	31	000	 Accumulated hours in 6-digit integer (000,001~ 999,999)*3.2.0 Can not be reset when FW update and Factory initiation*3.2.2 Reply in new 32- byte format*3.2.0
Get-Device name	8		g	4	34	000	Reply in new 32-byte format *3.2.0

Get-MAC address	8	g	5	35	000	(for the model with LAN) Reply in new 32-byte format*32.0
Get-IP address *3.2.0	8	g	6	36	000	(for the model with LAN) Reply in new 32-byte format*3.2.0
Get-Serial number *3.2.0	8	g	7	37	000	Reply in new 32-byte format *3.2.0
Get-FW version *3.2.0	8	g	8	38	000	Reply in new 32-byte format *3.2.0

NOTE:

1. Get Operation Hour example

Assumed the accumulated operation hour is 123,456 hrs

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

Reply: 0x 32 30 31 72 31 31 32 33 34 35 36 00 00 ... 00 00 0D

2. Get Device Name example

Assumed the device name is CDE-5500

Send: 0x 38 30 31 67 34 30 30 30 0D (Get Device Name)

Reply: 0x 32 30 31 72 34 43 44 45 2D 35 35 30 30 00 00 ... 00 00 0D

Assumed the device name is "NMP-302#1"

Send: 0x 38 30 31 67 34 30 30 30 0D (Get Device Name)

Reply: 0x 32 30 31 72 34 4E 4D 50 2D 33 30 32 23 31 00 00 ...00 00 0D

3. Get MAC address example

Assumed the MAC address is 00:11:22:aa:bb:cc

Send: 0x 38 30 31 67 35 30 30 30 0D (Get MAC add)

Reply: 0x 32 30 31 72 35 30 30 31 31 32 32 61 61 62 62 63 63 00 00...00 00 0D

4. Get IP address example

Assumed the IP address is 192.168.100.2

Send: 0x 38 30 31 67 36 30 30 30 0D (Get IP address)

Reply: 0x 32 30 31 72 36 31 39 32 2E 31 36 38 2E 31 30 30 2E 32 00 00...00 00 0D

5. Get Serial number example

Assumed the Serial number is ABC180212345

Send: 0x 38 30 31 67 37 30 30 30 0D (Get Serial number)

Reply: 0x 32 30 31 72 37 41 42 43 31 38 30 32 31 32 33 34 35 00 00...00 00 0D

6. Get FW version example

Assumed the FW version is 3.02.001

Send:0x 38 30 31 67 38 30 30 30 0D (Get FW version)Reply:0x 32 30 31 72 38 33 2E 30 32 2E 30 30 31 00 00...00 00 0D

B. Optional Function

Get Function	Length	ID	Command	Com	mand	Response Range	Comments
			Type (ASCII)	Code (ASCII)	Code (Hex)	(Three ASCII bytes)	
Get-Contrast	8		g	а	61	000 ~ 100	
Get-Sharpness	8		g	С	63	000 ~ 100	
Get-Color	8		g	d	64	000 ~ 100	
Get-Tint	8		g	е	65	000 ~ 100	
Get-Backlight On_Off	8		g	h	68	000: Off 001: On	
Get-PIP mode	8		g	t	74	000: OFF 001: PIP (POP) 002: PBP	
Get-PIP input	8		g	u	75	000 ~	See Set-input select
Get-Tiling Mode	8		g	v	76	000: OFF 001: ON	(for Video wall)
Get-Tiling Compen- sation	8		g	W	77	000: OFF 001: ON	(for Video wall) Bezel width com- pensation
Get-Tiling H by V monitors	8		g	x	78	01x~09x: H monitors 0x1~0x9: V monitors	(for Video wall) 1. 2nd digital for H monitors 2. 3rd digital for V monitors
Get-Tiling position	8		g	У	79	000: OFF 001~025	(for Video wall) Copy the screen of Position# to identi- fied display
Get-Date: Year	8		g	2	32	Y00~Y00	Last 2 digits (20)17~(20)99
Get-Date: Month	8		g	2	32	M00~M00	2 digits
Get-Date: Day	8		g	2	32	D00~M00	2 digits
Get-Time: Hour	8		g	3	33	H00~H00	24-hr format. 2 digits
Get-Time: Min	8		g	3	33	M00~M00	2 digits
Get-Time: Sec	8		g	3	33	S00~S00	2 digits

NOTE:

1. Get Date example

Assumed the current date of display#01 as below:

Date: 2017-3/15

	0x 38 30 31 67 32 59 30 30 0D (Get Date:Year)
Reply:	0x 38 30 31 72 32 59 31 37 0D ("Y17")
	0x 38 30 31 67 32 4D 30 30 0D (Get Date:Month) 0x 38 30 31 72 32 4D 30 33 0D ("M03")
	0x 38 30 31 67 32 44 30 30 0D (Get Date:Day) 0x 38 30 31 72 32 44 31 35 0D ("D15")

2. Get Time example

Assumed the current time of display#01 as below:

Time: 16:27:59

Send: 0x 38 30 31 67 33 48 30 30 0D (Get Time:Hour)

Reply: 0x 38 30 31 72 33 48 31 36 0D ("H16")

Send: 0x 38 30 31 67 33 4D 30 30 0D (Get Time:Min)

Reply: 0x 38 30 31 72 33 4D 32 37 0D ("M27")

Send: 0x 38 30 31 67 33 53 30 30 0D (Get Time:Sec)

Reply: 0x 38 30 31 72 33 53 35 39 0D ("S59")

3. Get RS232 Version example

Assumed the version is 3.0.1

Send: 0x 38 30 31 67 36 30 30 30 0D (Get RS232 version)

Reply: 0x 38 30 31 72 36 33 30 31 0D ("301")

C. Auto Reply *3.2.1

The display will send out the updated data/status automatically without getting a query from the host whenever the following data/status is changed by the user through any of the available ways like: remote control unit, front keys, or touch screen.

- Power On/Off
- Input Select
- Brightness
- Backlight
- Volume
- Mute On/Off

Remote Control Pass-through Mode

When the PC sets the Display to Remote Control Pass through mode, the Display shall send a 7-byte packet (followed by "CR") in response to remote control unit (RCU) button activation. In this mode the remote control shall have no effect on the Display function. For example: "Volume+" will not change the volume of the Display, but instead only sends the "Volume+" code to the PC over the RS232 port.

IR Pass Through-Function format

Reply: (Command Type="p")

Name	Length	ID	Command Type	RCU Code1 (MSB)	RCU Code2 (LSB)	CR
Byte Count	1 Byte	2 Byte	1 Byte	1 Byte	1 Byte	1 Byte
Bytes order	1	2~3	4	5	6	7

Example 1: Remote Control Pass-through when "VOL+" key is pressed for Display (#5)

Send (Hex Format)

Name	Length	ID	Command Type	RCU Code1 (MSB)	RCU Code2 (LSB)	CR
Hex	0x36	0x30 0x35	0x70	0x31	0x30	0x0D

Кеу	Code (HEX)	Basic *3.1.1	Optional *3.1.1
1	01	V	
2	02	V	
3	03	V	
4	04	V	
5	05	V	
6	06	V	
7	07	V	
8	08	V	
9	09	V	
0	0A	V	
-	OB		V
RECALL (LAST)	0C		V
INFO (DISPLAY)	0D		V
	OE		
ASPECT (ZOOM, SIZE)	OF		V
VOLUME UP (+)	10	V	

VOLUME DOWN (-)	11	V	
MUTE	12	V	
CHANNEL/PAGE UP (+)/ BRIGHTNESS+	13		V
CHANNEL/PAGE DOWN (-)/ BRIGHTNESS-	14		V
POWER	15	V	
SOURCES (INPUTS)	16	V	
	17		
	18		
SLEEP	19		V
MENU	1A	V	
UP	1B	V	
DOWN	1C	V	
LEFT (-)	1D	V	
RIGHT (+)	1E	V	
OK (ENTER, SET)	1F	V	
EXIT	20	V	
	21		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	2A		
	2B		
RED 🧧 (F1)	2C		
GREEN 📕 (F2)	2D		
YELLOW <mark>(</mark> F3)	2E		
BLUE 📕 (F4)	2F		

NOTE:

- 1. This IR-pass-through code is different from the RCU key code.
- 2. Special control sequence for POWER key under IR-pass through mode.
- 2-1. When Display is OFF and receives the IR POWER code: Display will turn itself on, then forward the POWER code to the host via RS232.

- 2-2. When Display is ON and receives the IR POWER code: Display will forward the POWER code to the host via RS232, then turn off itself.
- 2-3. When SET-POWER LOCK is enabled, the Display will not respond to POWER key pressing.
- 3. The VOLUME UP and VOLUME DOWN code will repeatedly output when you press and hold the keys.

Appendix

Specifications

ltem	Category		Specifications			
Model		IFP6562	IFP7562	IFP8662		
Screen Size		64.5″	74.5″	85.6″		
Input Signal		4 x HDMI (v. 2.0) 1 x USB Type C (DP v. 1.4; PD 65W; 100M Ethernet) 1 x VGA 1 x Audio In 1 x USB Type A (2.0) 5 x USB Type A (3.0)				
Output Signal	1 x HDMI 1 x Audio Out 1 x SPDIF 2 x USB Type B (for touch)			uch)		
Network	LAN	10M/100M (for Embedded Player) 10M/100M/1000M (for Slot-in PC)				
	Wi-Fi	1 x Wi-Fi Slot				
PC Slot		1 x 80-pin OPS				
Speaker Output		2 x 12W, 1 x 15W				
RS-232		F	S-232 Communicati	on		
Power	Voltage	1	.00V-240V AC 50/60	Hz		
	Temperature	32° F to 104° F (0° C to 40° C)				
Operating Conditions	Humidity	20%~80% non-condensing				
Conditions	Altitude		≤ 2,000 m			
Champer	Temperature	-4° F	to 140° F (-20° C to	60° C)		
Storage Conditions	Humidity	10	%~90% non-conden	sing		
Conditions	Altitude	≤ 2,000 m				
Dimensions	Physical (mm)	1492 x 907 x 78	1712 x 1031 x 78	1960 x 1171 x 80		
Weight	Physical (kg)	37.4	50.05	63.7		
Power	On	115W	130W	160W		
Consumption	Off	< 0.5W	< 0.5W	< 0.5W		

NOTE: Product specifications are subject to change without notice.

Display Modes VGA Mode

Resolution	Refresh Rate (@)
640 x 480	60Hz, 72Hz, 75Hz
720 x 400	70Hz
800 x 600	56Hz, 60Hz, 72Hz, 75Hz
1024 x 768	60Hz, 70Hz, 75Hz
1152 x 864	60Hz, 75Hz
1152 x 870	75Hz
1280 x 768	60Hz, 75Hz
1280 x 960	60Hz
1280 x 1024	60Hz, 75Hz
1360 x 768	60Hz
1366 x 768	60Hz
1440 x 900	60Hz, 75Hz
1600 x 1200	60Hz
1680 x 1050	60Hz
1920 x 1080	60Hz

HDMI Mode

Resolution	Refresh Rate (@)
640 x 480	60Hz, 72Hz
720 x 400	70Hz
800 x 600	60Hz, 72Hz
1024x768	60Hz, 70Hz, 75Hz
1280x800	60Hz
1280x1024	60Hz
1360x768	60Hz
1440x900	60Hz
1680x1050	60Hz
1920x1080	60Hz
3840x2160	30Hz, 60Hz
480i	60Hz
480p	59Hz, 60Hz
576i	50Hz
720p	50Hz, 60Hz
576p	50Hz
1080i	50Hz, 60Hz
1080p	50Hz, 60Hz

Troubleshooting

This section describes some common problems that you may experience when using the ViewBoard.

Problem or Issue	Possible Solutions		
	 Check whether something is obstructing the display's remote control receiver. 		
Remote Control is not working	 Check whether the batteries in the remote control are installed correctly. 		
	3. Check whether the batteries need to be replaced.		
	1. Check whether Sleep mode is enabled.		
The unit turns off	2. Check if there is a power outage in your area.		
unexpectedly	3. Turn on the display and see if the problem is with the signal and control system.		

PC Mode

Problem or Issue	Possible Solutions	
	1. Check the display settings.	
No PC signal	2. Check the display resolution.	
	 Adjust the Hs &Vs (synchronization) settings using the OSD menu. 	
Deckground streeking	1. Choose auto adjust.	
Background streaking	2. Adjust clock and phase.	
False color	1. Check the VGA connection.	
	2. Adjust the chroma, brightness, and contrast settings.	
Lincurported format	1. Choose auto adjust.	
Unsupported format	2. Adjust clock and phase settings.	

Touch Function

Problem or Issue	Possible Solutions
	1. Check that drivers are installed correctly.
Touch function does	2. Reinstall driver(s).
not work	3. Check setup and align it.
	4. Check whether the touch pen is working properly.

Video Not Working Properly

Problem or Issue	Possible Solutions
	1. Check the Power status.
No picture/ No sound	2. Check the signal cable.
	3. Check that the internal PC is installed correctly.
Picture is unclear or	1. Check the signal cable.
cuts in and out	2. Check if other electronics are interrupting the signal.
Poor picture	 Adjust chroma, brightness, and contrast settings in the menu.
	2. Check the signal cable.

Audio Not Working Properly

Problem or Issue	Possible Solutions
	1. Press the Mute/Unmute button.
No sound	2. Adjust the volume.
	3. Check the audio cable.
	1. Adjust the sound balance in the menu.
One speaker only	 Check the sound control panel settings of the computer.
	3. Check the audio cable.

Maintenance

General Precautions

- Make sure the device is turned off and the power cable is unplugged from the power outlet.
- Never spray or pour any liquid directly onto the screen or case.
- Handle the device with care, as a darker-colored device, if scuffed, may show marks more clearly than a lighter-colored device.
- Do not use the system continuously for long periods of time.

Cleaning the Screen

- Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
- If the screen is still not clean, apply a small amount of non-ammonia, nonalcohol based glass cleaner onto a clean, soft, lint-free cloth; then wipe the screen.

Cleaning the Case

- Use a soft, dry cloth.
- If the case is still not clean, apply a small amount of non-ammonia, non-alcohol based, mild non-abrasive detergent onto a clean, soft, lint-free cloth, then wipe the surface.

Disclaimer

- ViewSonic[®] does not recommend the use of any ammonia or alcohol-based cleaners on the display screen or case. Some chemical cleaners have been reported to damage the screen and/or case of the device.
- ViewSonic[®] will not be liable for damage resulting from use of any ammonia or alcohol-based cleaners.
 - **NOTE:** If condensation appears between the glass and the panel, keep the display turned on until the moisture disappears.

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.

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.

Industry Canada Statement

CAN ICES-003(B) / NMB-003(B)

CE Conformity for European Countries

CE The device complies with the EMC Directive 2014/30/EU and 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:

- 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.

ENERGY STAR Statement

ENERGY STAR is a U.S. Environmental Protection Agency voluntary program that helps businesses and individuals save money and protect our climate through superior energy efficiency. Products that earn the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy efficiency criteria or requirements set by the U.S. Environmental Protection Agency.

As an ENERGY STAR Partner, ViewSonic is determined to meet the Energy star Guidelines and mark all certified models with the ENERGY STAR logo. The following logo appears on all ENERGY STAR-certified models:



NOTE: The power management features significantly reduce energy consumption when the product is not in use. Power management allows the device to automatically enter a low power "sleep" mode after a defined period of inactivity. And the power management features also enter Sleep Mode or Off Mode within 5 minutes of being disconnected from a host computer. Please note any change in energy settings will increase energy consumption.

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/

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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.
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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/		
	Amei	ricas			
United States	www.viewsonic.com/us	Canada	www.viewsonic.com/us		
Latin America	www.viewsonic.com/la				
Europe					
Europe	www.viewsonic.com/eu/	France	www.viewsonic.com/fr/		
Deutschland	www.viewsonic.com/de/	Қазақстан	www.viewsonic.com/kz/		
Россия	www.viewsonic.com/ru/	España	www.viewsonic.com/es/		
Türkiye	www.viewsonic.com/tr/	Україна	www.viewsonic.com/ua/		
United Kingdom	www.viewsonic.com/uk/	'			

Limited Warranty

ViewSonic[®] Smart White Board

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[®] Smart White Board

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

Smart White Board Warranty Term Template In UG VSC_TEMP_2013

