



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 in the upper right corner of our website. "Antes de operar su equipo lea cu idadosamente las instrucciones en este manual"

Model No. VS17853 P/N: IFP9850-3

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[®]!



Please read the following

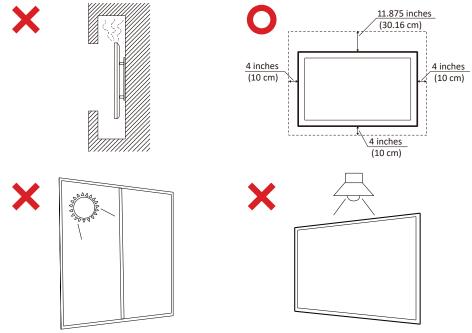
before you start using the device.

- 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 on page 116.
- 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

> Contents

Safety Precautions	
Introduction	
Package Contents	
Wall Mount Kit Specifications (VESA)	
Product Overview	
Control Panel	
I/O Panel	
Remote Control	
Using Gestures	
Select and Deselect an Object (Clicking)	
Display Menu Options (Right-Clicking)	
Double-Clicking	
Moving an Object	
Erasing Digital Ink	
Swipe Up for General Settings	
Making Connections	
Connecting External Devices	
VGA Connection	
HDMI Connection	
RS232 Connection	
USB, Networking, and Microphone Connections	
Media Player Connection	
SPDIF Connection	
Video Output Connection	

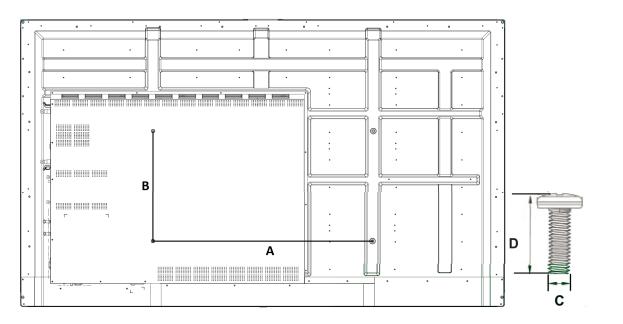
Using Your ViewBoard	25
Powering On/Off your ViewBoard	
Initial Launch Setup	26
vLauncher - Customizable Welcome Screen	
Tool Bar	29
ViewBoard On-Screen Display (OSD) Menu	
General Settings	
Audio Settings	
Screen Settings	
Display Settings	
Adjust Settings	
Advanced Settings	
Wireless & Networks	
Wi-Fi	
Ethernet	
Wireless Hotspot	
ВТ	
VPN	
Share	
Device	51
Theme	51
Display	51
Wallpaper	
HDMI Out Encryption Setting	53
Burn-in Protection Interval	54
Storage	54
Sound	54
Personal	55
Security	55
Trusted Credentials	55
Clear Credentials	56
Unknown Sources	
Language & Input	57
Language	
Current Keyboard	
Existing Keyboard	
Startup and Shutdown	
Startup Channel	59

Built-in PC Startup Option	59
Standby Mode	60
Black Screen After Startup	61
Close Power Off Reminder	61
Password for Screen Lock	62
Input Setting	63
Input Alias Switch	63
Wake on Active Source	64
Auto Search	64
Channel Auto Switch	64
No Signal Power Off	64
HDMI CEC Settings	64
Other Settings	65
Side Toolbar Channel	65
ECO Mode	65
System	66
Date & Time	66
About Device	68
System Update	68
Advanced	70
Mode	70
APP	71
Password	72
USB Disk Enable	72
Privacy	72

Embedded Applications and Settings	3
Embedded Digital Whiteboard App73	3
myViewBoard	
Floating Bar	3
Toolbar	3
vBoard Lite	5
User Interface:	5
Menu Options:75	5
Watercolor Feature76	5
ViewBoard Cast77	7
Cast Sender from Windows-based Devices, Macbook, and Chrome devices 78	3
Cast Sender from Mobile Devices: iOS-based (iPhone, iPad) and Android OS based	ł
phone/tablet	9
Cast Out from a Mobile Device that Supports Annotation	C
Air Class	1
CD Voter	2
84 Responder	
Message	4
🚜 Manager	4
Exit	4
Other Default Applications	
Zoom	
Join a Meeting	
Start an Instant Meeting87	7
Sweeper	8
Screen Lock	
Set Password89	9
Screen Lock Enabled89	9
Chromium	C
Folders	1

RS-232 Protocol	
Description	93
RS232 Hardware Specification	
LAN Hardware Specification	
RS232 Communication Setting	
LAN Communication Setting	
Command Message Reference	
Protocol	95
Set-Function Listing	
Get-Function Listing	
Remote Control Pass-through Mode	109
Appendix	112
Specifications	
Display Modes	113
VGA Mode	113
HDMI Mode	113
Troubleshooting	
Maintenance	116
General Precautions	116
Cleaning the Screen	116
Cleaning the Case	116
Regulatory and Service Information	117
Compliance Information	
FCC Compliance Statement	
Industry Canada Statement	117
CE Conformity for European Countries	
Declaration of RoHS2 Compliance	118
ENERGY STAR statement	119
Indian Restriction of Hazardous Substances	119
Product Disposal at End of Product Life	119
Copyright Information	
Customer Service	121
Limited Warranty	122
Mexico Limited Warranty	125

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			
IFP9850-3 - 98"	800 x 600 mm	M8 x 25 mm	4

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

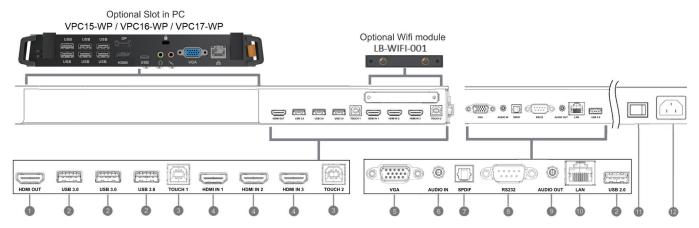
Product Overview

Control Panel



Number	
1	Areas for placing touching pen
2	 Press the key to turn on the device Press the key to turn off/on the display backlight only Press and hold the key to turn off the device
3	Remote control receiver
4	USB port for Embedded Player and internal PC

I/O Panel

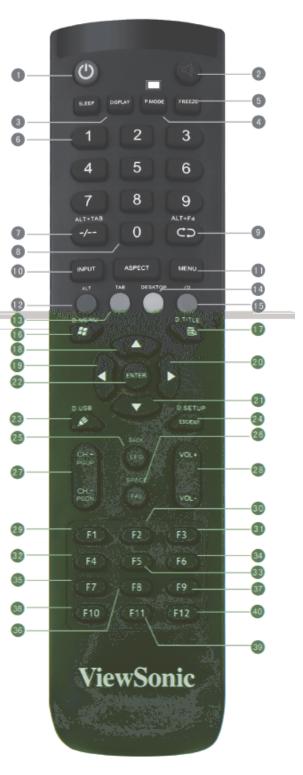


Number	
1	Extend content out to another display device
2	USB port for Embedded Player and internal PC
3	 Touch signal output to the external PC Touch 1 for HDMI IN 2 and 3 Touch 2 for HDMI IN 1 and VGA IN
4	 High-definition multimedia interface signal input, connect to PC with HDMI output, set-top box, or othervideo device HDMI 1, 2, 3 support up to 3840x2160@60Hz, HDCP 2.2 HDMI 1, 2, 3 support HDMI CEC(One Touch Play, System Standby, partial Remote Control Pass Through)
5	External computer image input
6	External computer audio input
7	SPDIF output
8	Serial interface, used for mutual transfer of data between devices
9	Audio output to the external speaker
10	Standard RJ45 (10M/100M/1G) Internet connection interface Used for the Embedded Player and Slot-in PC
11	Power On / Off switch
12	AC power input

Remote Control

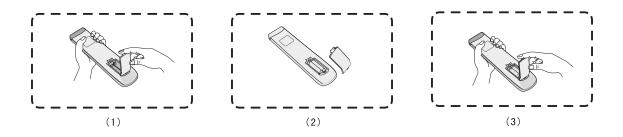
O () ፡ Press to turn the display ON/OFF 2 -⊄*: Mute / Unmute O DISPLAY : Display information of the current input source 4 P.MODE : Blank screen 6 FREEZE: Freeze screen 6 Numeric button: Numeric input button -/-, ALT+TAB:
 Press to switch between PC applications 0: Numeric input button 9 🗘 ALT+F4 : Close current PC window INPUT: Source selection button MENU: Press to display Menu 12 RED+ALT: Screen capture GREEN+TAB: PC 'Tab' button 14 YELLOW+DESKTOP: Switch to slot in PC desktop BLUE+BACKSPACE: PC 'Backspace' button 10 🦉 🖓 MENU: PC 'Windows' button 🗊 🗟 🗸 D. TITLE: PC 'Menu' button 18 · 🔺 : Press to scroll up ◀ : Press to scroll left 20 • Press to scroll right

21 🔻 : Press to scroll down ENTER: 22 Enter button. Press it to select options. 23 Ø, D.USB: Writing software startup 24 ESC/EXIT, D.SETUP: Shortcut button to exit dialog boxes 25 EPG: Back 26 FAV, SPACE: PC 'Space' button 20 CH.+、CH.-: CH+ : PC previous page CH-: PC next page 28 VOL+ VOL-Increase / Decrease volume 29 F1: Windows F1 Function 30 F2: Windows F2 Function 3 E3⁻ Windows F3 Function 32 F4: Windows F4 Function 33 F5: Windows F5 Function 34 F6: Windows F6 Function 35 F7: Windows F7 Function 36 E8-Windows F8 Function 37 F9: Windows F9 Function 38 F10: Windows F10 Function 39 F11: Windows F11 Function 40 F12 Windows F12 Function



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.

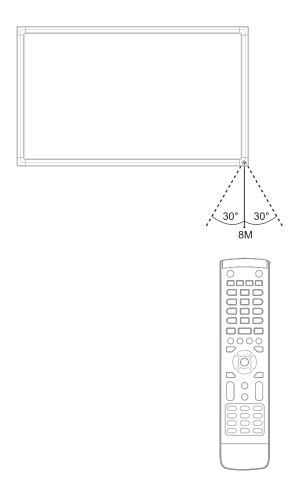


There is a risk of explosion if batteries are replaced with the incorrect type.

- 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

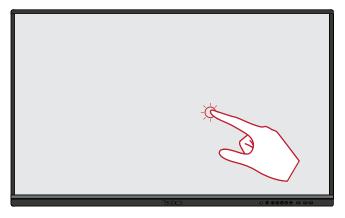
The working range of the remote control is shown here. It has an effective range of 8 meters. Ensure there is nothing obstructing the remote control's signal to the receiver.



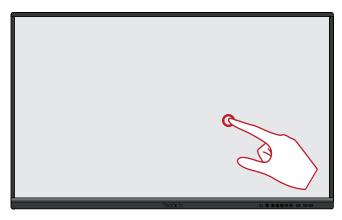
Using Gestures

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.

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

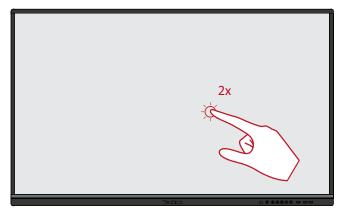


Press and hold the ViewBoard with your finger. This is like a single, standard right mouse click.



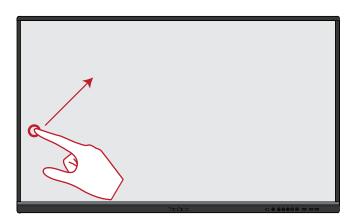
Double-Clicking

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



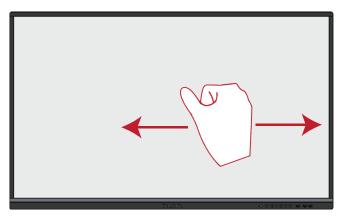
Moving an Object

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

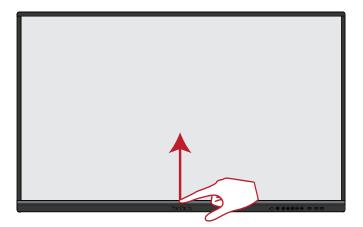


Erasing Digital Ink

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

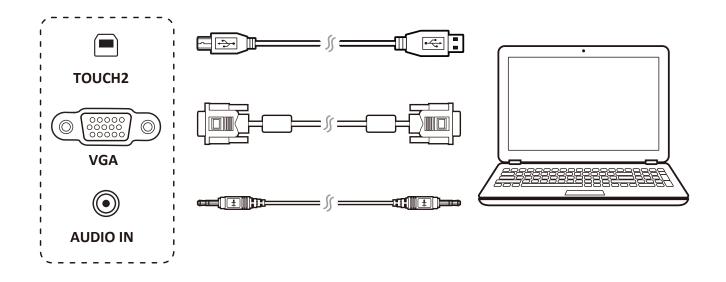


Swipe up from the bottom of the ViewBoard to launch the General Settings. To learn more see page 35.





This section guides you on how to connect the ViewBoard with other equipment.

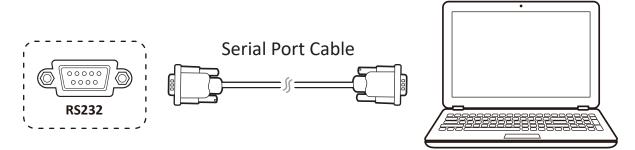


To connect via VGA:

- **1.** Connect a VGA cable (15-pin) from your external device to the **VGA IN** port on the display.
- 2. Connect an audio cable from the AUDIO OUT port on your external device to the AUDIO IN port on the display.
- **3.** Connect a USB cable to the external device from the **TOUCH OUT** port of the display.

To connect via HDMI:

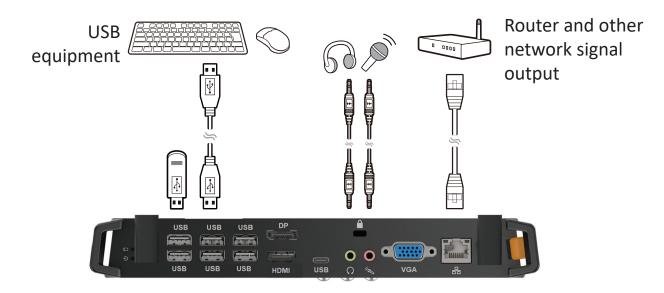
- **1.** Connect an HDMI cable from your external device to the **HDMI IN** port on the display.
- 2. Connect a USB cable to the external device from the **TOUCH OUT** port of the display.



When you use a RS232 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.

ViewSonic also offers a complimentary software, vController, that allows users to control their ViewSonic commercial displays from a remote PC.

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



USB Peripherals

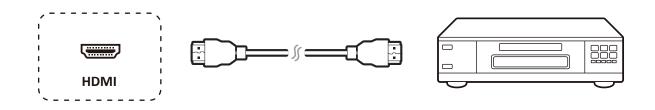
Plug the USB device cable into the **USB IN** port.

Networking and Modem cables

Plug the router cable into the LAN IN port.

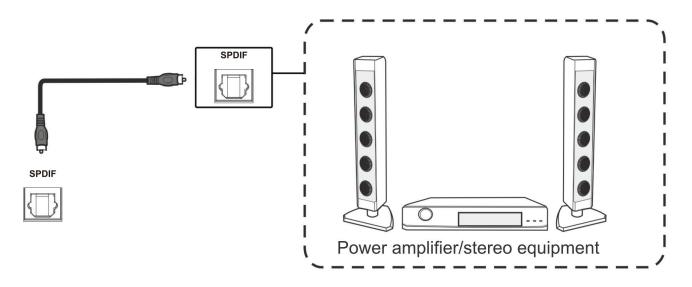
<u>Microphone</u>

Plug the microphone cable into the **MIC** port.



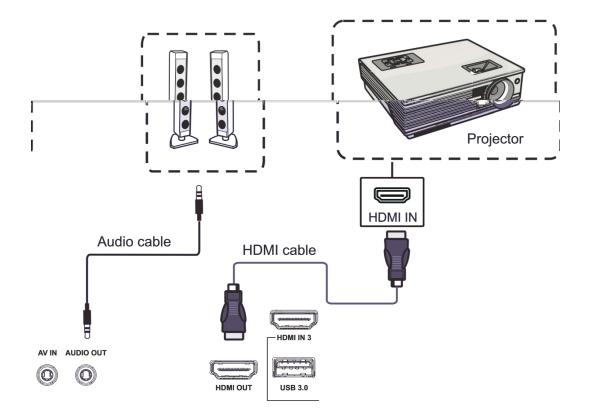
To connect to a media player:

- **1.** Connect the HDMI cable to the **HDMI** ports on your ViewBoard and peripheral device.
- **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.
- **4.** Press the **INPUT** button to switch to the "HDMI" input source.
 - HDMI 1/2/3 supports up to 3840 x 2160 @ 60Hz
 - HDMI 1/2/3 supports HDMI CEC



To connect to an external sound system:

- **1.** Connect an optical cable from **DIGITAL OUT** 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 ⁽∪ Power button on the right-hand side of the ViewBoard to turn the screen on.



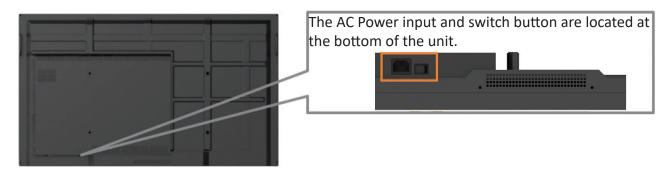
To output video via a display device:

- **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.** For audio, connect one end of an audio cable to your ViewBoard's **AUDIO OUT** port and the other end to your speakers.
- **3.** Plug in the power cord of your ViewBoard, and turn on the rear-panel power supply switch.
- 4. Press the **⁽⁾ Power** button on the right-hand side of the ViewBoard to turn the screen on.

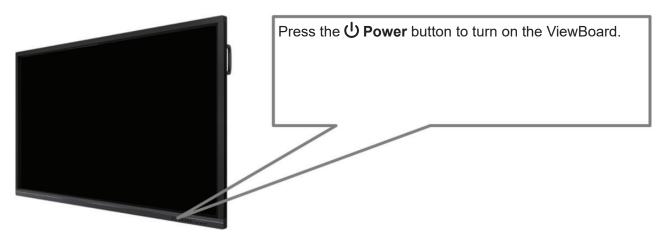
The **HDMI OUT** port can output a resolution of 1920 x 1080 @ 60Hz.

Using Your ViewBoard

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



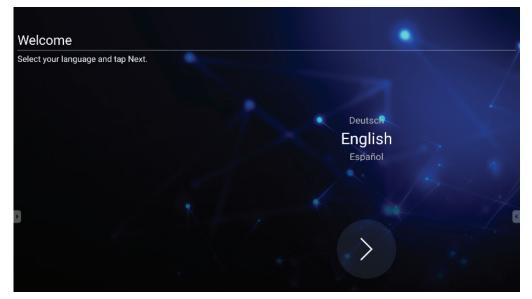
2. Press the **U** Power button to turn on the ViewBoard.



3. To turn the ViewBoard off, press and hold the **U** Power button again.

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

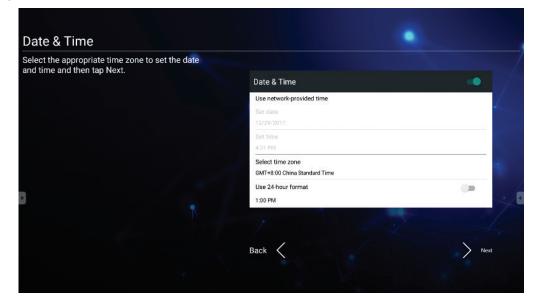
1. Select your Language:



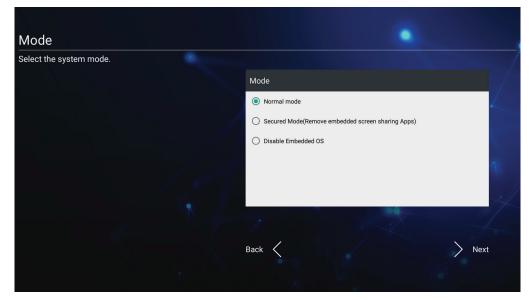
2. Setup and verify your LAN connection:

Ethernet		
To verify LAN connected and then tap Next.		
	Ethernet	
	Local Network Setting	2
	• рнср	
	O Static IP	
		1
	Back	> Next

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



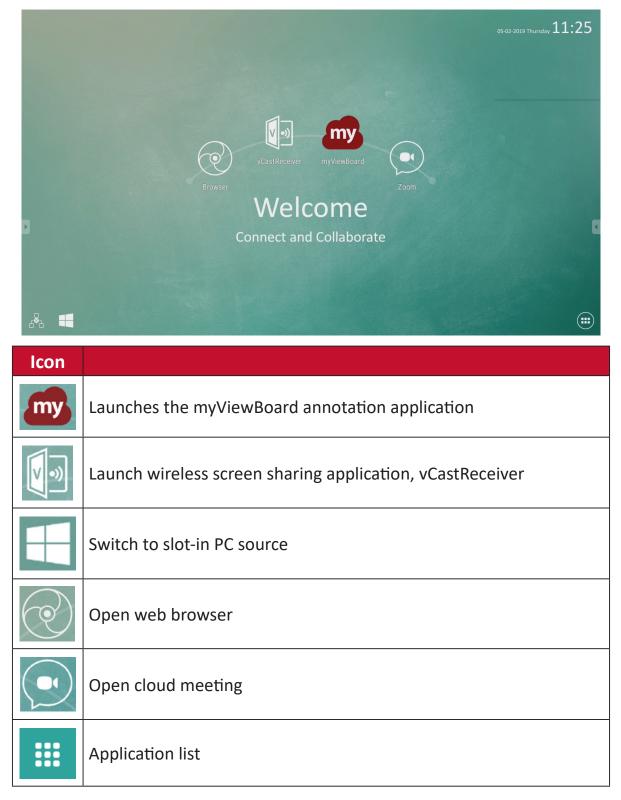
4. Select your preferred System Mode:



5. Select your preferred vLauncher mode:

Select vLauncher Theme elect the preferred vLauncher mode and then		
ap Next.	Theme	
	vLauncher Mode	L
	O Corporate	
	Education	
		7
	Back	> Next

vLauncher - Customizable Welcome Screen

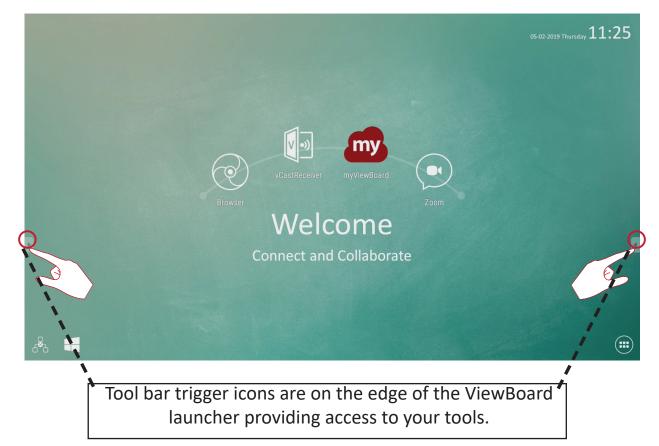


ViewBoard offers two background themes, Corporate and Education.



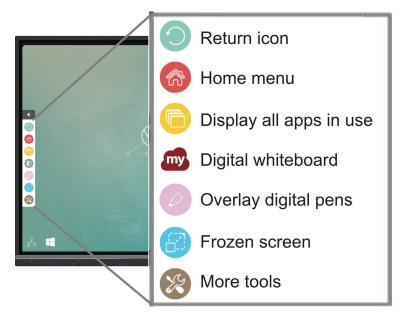


Tool Bar



To launch a tool:

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

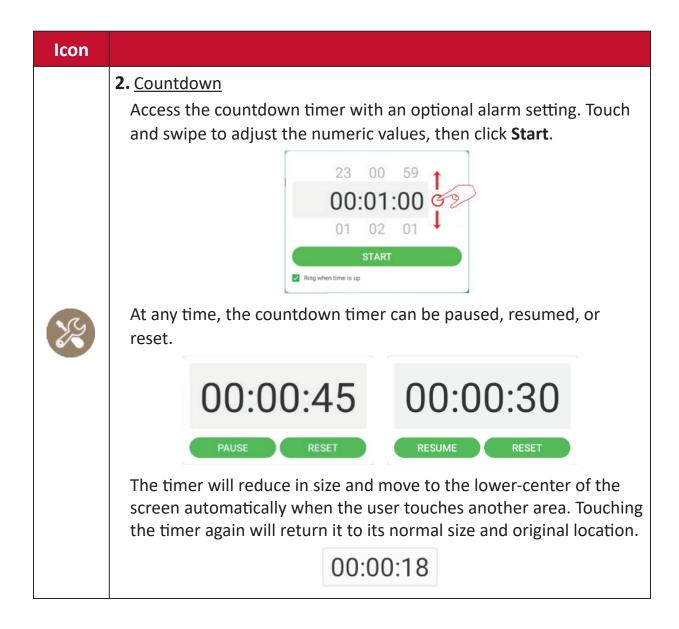


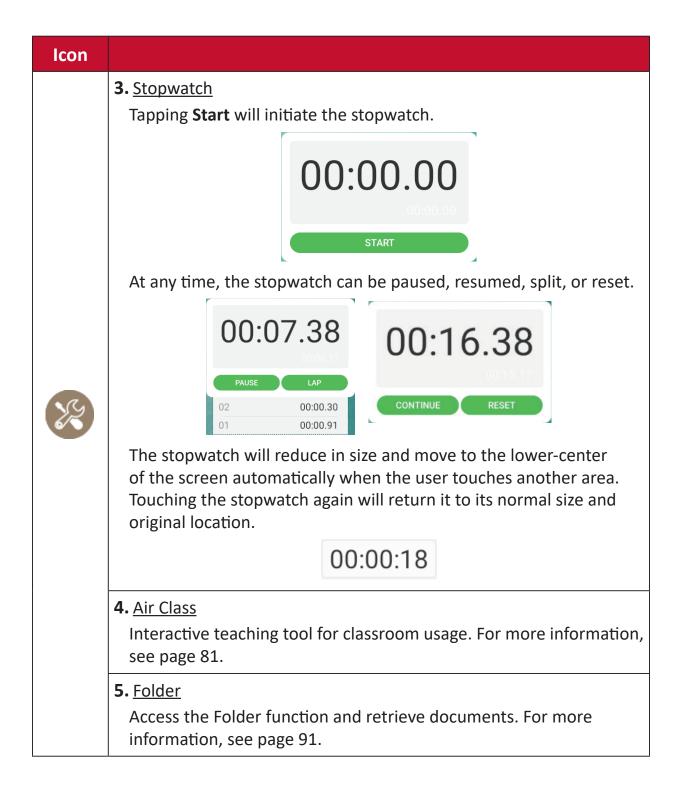
The default tool bar setting is to be available for all input sources; however, users can go to to adjust the options: (1) available for all input sources, (2) available for all input sources, except for PC, and (3) disable the tool bar.

lcon	
\bigcirc	Return to the previous operation screen Only for Embedded Player source
	Return to the home screen of the Embedded Player
C	Display all embedded applications that are being used
my	Launch the myViewBoard software

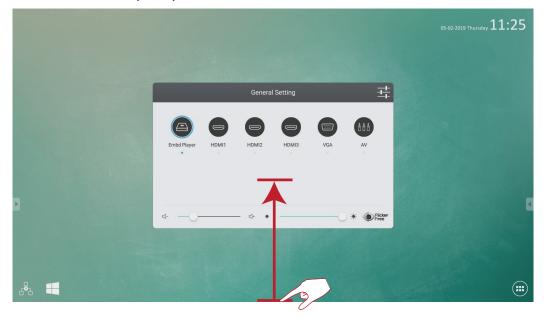
lcon		
	Access the pen, highlighter, clear, and save options	
	 1. <u>Digital Pen</u> Annotate the overlay of any input source with red, black, blue, or green ink. The default digital pen setting supports up to 10-point writing. 	
2. Digital Highlighter Mark and highlight with four colors: yellow, orange, blue, and green. The default digital highlighter setting supports up to 10-point marking.		
 3. <u>Brush</u> Clears all the digital ink on the screen. 4. Save As 		
	Save the on-screen image onto the internal storage.	
	5. <u>Writing Mode</u> Transparent mode: Screen won't be frozen, the screen resolution won't be reduced to 1080p.	
 6. <u>Picture Save Setting</u> Speed priority: Save the on-screen image as 1920 x 1080; fast sa speed. 		
	In opaque mode, the user cannot select the picture save setting.	
	7. <u>Close</u> Close the digital pen icon.	

lcon					
	Convert the currently displayed content into a still image; then you can zoom in or zoom out $\begin{array}{c} \textcircled{0} \\ \textcircled{1} \\ \textcircled{2} \\ \textcircled{3} \\ \textcircled{4} \end{array}$ The ViewBoard will take a few seconds to reduce the screen resolution to 1080p.				
	 <u>Zoom In</u> Enlarge the captured image. The screen resolution will be reduced after zooming in. <u>Zoom Out</u> Shrink the captured image. 				
	 3. <u>Back to Full Screen</u> Reset the Zoom In/Zoom Out effects to the original full screen. 4. <u>Close</u> Close the icon. 				
X	View more applications within the ViewBoard tool bar				



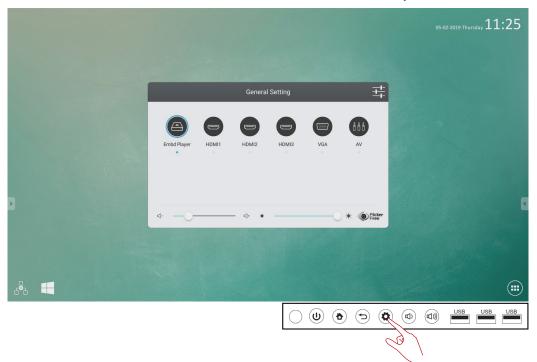


ViewBoard has two options for opening the OSD Menu:



Swipe up from the bottom of the screen.

Press the button on the control panel.



	General Setting					
Embd Player	HDMI1	HDMI2	HDMI3	VGA	AV	
⊲		— ⊲+ ∗		C	Flicker	

To select an Input Source:

- 1. Press INPUT on the remote control to display the **General Setting** menu, then press **DOWN** to enter the **Input Source** menu.
- 2. Press DOWN/UP/LEFT/RIGHT to select the input source you want.
- **3.** Press **ENTER** on the remote control, or touch the input source.
- **4.** Press **EXIT** on the remote control, or touch a blank area outside of the menu to exit.



To adjust the Backlight and enable/disable Flicker Free:

- 1. Press INPUT on the remote control to display the General Setting menu.
- **2.** Drag the brightness slider directly to adjust the backlight value, and/or touch the Flicker Free icon to enable/disable the function.
- **3.** Press **EXIT** on the remote control, or touch a blank area outside of the menu to exit.

प- <u></u> प+

- To adjust the Volume:
- **1.** Press **INPUT** on the remote control to display the **General Setting** 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 **EXIT** on the remote control, or touch a blank area outside of the menu to exit.

[<] Audio	Screen	Display	Adjust
6	0	0	0
Volume	Bass	Treble	Balance
	Standard Meeting	Class Custom	Mute

- 1. Press MENU on the remote control and select the Audio menu.
- 2. Adjust the Volume, Bass, Treble, and Balance directly by touching and adjusting each value. Additionally, you can use the remote control and press DOWN/UP/ LEFT/RIGHT to select a value, then press VOL+/VOL- to adjust it.
- **3.** To adjust the audio efficacy choose from: **Standard**, , **Class**, and **Custom**.
- **4.** Touch the Mute slider directly to enable/disable mute.

- 1. Press MENU on the remote control and select the Screen menu.
- 2.

To reduce the possibility of screen burn-in, this unit is equipped with image sticking protection technology.

If the screen displays a still image for a certain period of time you define, the device activates a screen saver to prevent the formation of burnt in ghost images on the screen.

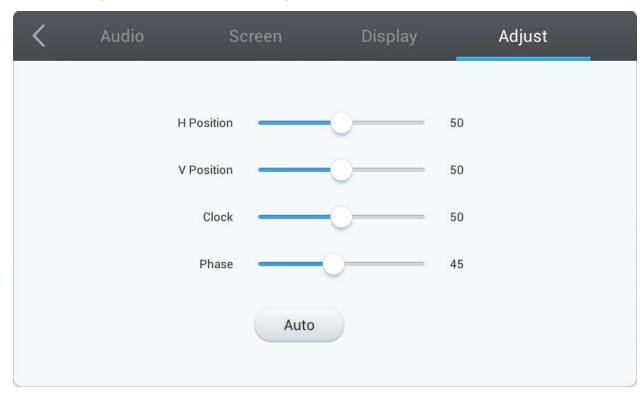
Image sticking protection moves the picture slightly on the screen. The image sticking protection time setting allows you to program the time between movements of the picture in minutes.

3. To change the screen ratio, directly select 4:3, 16:9, or PTP.



- **1.** Press **MENU** on the remote control and select the **Display** menu.
- Adjust the Brightness, Contrast, Hue, and Sharpness directly by touching and adjusting each value. Additionally, you can use the remote control and press DOWN/UP/LEFT/RIGHT to select a value, then press VOL+/VOL- to adjust it.
- **3.** To adjust the display efficacy choose from: **Standard**, **Bright**, , and **Custom**.
- **4.** Touch the **Standard**, **Cold**, or **Warm** icon to adjust the color temperature.
- 5. Drag the blue light slider directly to adjust the blue light value.





Only available when the input source is VGA.

- 1. Press MENU on the remote control and select the Adjust menu.
- **2.** Adjust the H. Position, V. Position, Clock, and Phase directly by touching and adjusting each value.
- 3. To automatically adjust, touch the Auto icon.

When the ViewBoard is in Embd Player source, tap the Advanced Settings icon in the On-Screen Display (OSD) Menu to enter the Advanced Settings Menu.

		General	Setting		
Embd Player	HDMI1	HDMI2	HDMI3	VGA	AV
⊴		— ⊄+ ☀		C	Flicker

Wireless & Networks

Check current network connection status, Wi-Fi, BT, and establish a Wireless hotspot.

Wirele	Wireless & networks					
•	Wi-Fi	ŧ	Ethernet			
((Ţ))	Wireless hotspot	•	ВТ			
	More					

- Wi-Fi, Wireless hotspot and BT 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

Tap the **On** toggle to toggle Wi-Fi on or off.

÷	Wi-Fi		:
	On	••	
6	VSaccess		
/	VS-Voice		

Tap the more settings icon to: Add Network, view Saved Networks, Refresh the network list, or view Advanced settings.

÷	Wi-Fi		
	On		•
		VSaccess	Add network
		VS-Voice	Saved networks
			Refresh
			Advanced

In Advanced settings, you can set Proxy and IP settings.

VSaccess Password	VSaccess Password
Show password Advanced options	Show password Advanced options
Proxy None	Proxy None
Manual	DHCP
Proxy Auto-Config T	Static

Ethernet

Tap the **On** toggle to toggle Ethernet on or off.

÷	Ethernet	:	
	On		
6	LOCAL NETWORK SETTING DHCP Connected		

Tap the more settings icon to view Advanced settings.

÷	Ethernet	
	On	
	LOCAL NETWORK SETTING	Advanced
	DHCP Connected	

In Advanced settings, you can adjust Static IP and Proxy settings.

÷	Ethernet		:
	On	••	
	Static IP Connected		
	IP address		
	172.21.2.145		
	Default gateway		
	172.21.2.1		
	Netmask		
	255.255.255.0		
	DNS		
>	172.21.1.130 DNS1		4
	172.21.1.33 DNS2		

	255.255.255.0	
•	DNS 172.21.1.130 DNS1	Proxy None
	172.21.1.33 DNS2	◯ Manual
S	Proxy None	O Proxy Auto-Config

Wireless Hotspot

Tap the Portable Wi-Fi hotspot toggle to turn it on or off.

÷	Wireless hotspot	
	Portable Wi-Fi hotspot Portable hotspot AndroidAP active	•
0	Set up Wi-Fi hotspot AndroidAP WPA2 PSK portable Wi-Fi hotspot	

Tap "Set up Wi-Fi hotspot" to set Network name, Security, and Password.

÷	Wireless hotspot				
	Portable Wi-Fi hotspot Portable hotspot AndroidAP act	ive			•
	Set up Wi-Fi hotspot AndroidAP WPA2 PSK portable	Wi-Fi hotspot			
0	Ne Ar Se Wi Pa	et up Wi-Fi hotspot itwork name ndroidAP curity PA2 PSK ssword e password must have at least 8 chara Show password	acters.	•	
			CANCEL	SAVE	

BT

Tap the **On** toggle to toggle BT on or off.

÷	вт		÷
	On	•	
16	Available devices		
	DRAGON-HUANG-NB		
Second .	IFP7550 is visible to nearby devices while BT settings is open.		

Select a listed device to pair and connect.

← BT		:
On		••
Available devices DRAGON-HUANG-NB IFP7550 is visible to nearby devices while BT settings is open.	BT pairing request Device DRAGON-HUANG-NB Pairing code 945373 CANCEL PAIR	

Tap the more settings icon to: Refresh, Rename the device, and Show received files.

÷	ВТ	E
	On	
	Available devices DRAGON-HUANG-NB IFP7550 is visible to nearby devices while BT settings is open.	Refresh Rename this device Show received files

VPN

To create a VPN profile:

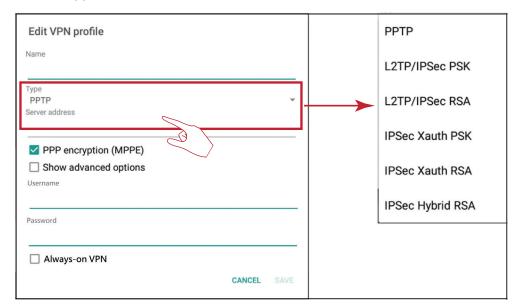
1. Tap the "+" icon.

← VPN	
	Edit VPN profile
	Name
	Type PPTP
	Server address
	PPP encryption (MPPE)
	Show advanced options Username
	Password
	Password
	Always-on VPN
	CANCEL SAVE

2. Key in the desired name.

Edit VPN profile		
Name		
Type PPTP		Ŧ
Server address		
PPP encryption (MPPE)		
Show advanced options		
Username		
Password		
Always-on VPN		
	CANCEL	

3. Select the VPN Type.



4. Choose to enable/disable PPP encryption and show advanced options.

Edit VPN profile		
Name		
Type PPTP Server address		Ŧ
 PPP encryption (MPPE) Show advanced options Username 		
Password		
Always-on VPN		
	CANCEL	SAVE

Share

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.



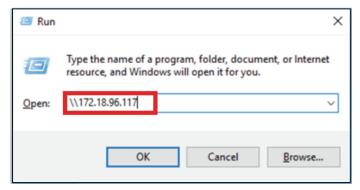
1. Tap the box to enable the SAMBA Service, then set a password if needed.

÷	SAMBA Service	
	SAMBA start Iogin setting UserName admin	
	Use password for protection protect share when enable password password	

2. Connect the ViewBoard and client equipment to the same network.

		Client to ping IFP
	IFP	Command Prompt
÷	Ethernet	Microsoft Windows [Version 10.0.15063] (c) 2017 Microsoft Corporation. All rights reserved. C:\Users\yugang.ping 172.18.96.117
	On Static Ir	Pinging 172.18.96.117 with 32 bytes of data: Reply from 172.18.96.117: bytes=32 time=1102ms TTL=63 Reply from 172.18.96.117: bytes=32 time=2ms TTL=63 Reply from 172.18.96.117: bytes=32 time=3ms TTL=63 Reply from 172.18.96.117: bytes=32 time=1988ms TTL=63
	IP address 172.18.96.117	Ping statistics for 172.18.96.117: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 2ms, Maximum = 1988ms, Average = 773ms

3. Log in to the ViewBoard with the client equipment. Input the ViewBoard's/IFP's IP address.



4. Key in the user name and password, then select OK.

Windows Security	
Enter network credent	tials
Enter your credentials to con	nect to: 172.18.101.248
admin	
	0
••••••	101
Remember my credentia	Is
The user name or password i	s incorrect.

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

	Name	Date modified	Туре
	asec		File folder
	obb		File folder
r	sdcard	11/6/2017 5:15 AM	File folder
r	secure		File folder
r	shell		File folder

Device

Adjust the Theme, Display, Storage, and Sound settings.

Device			
ŧ	Theme	Ф	Display
	Storage		Sound

Theme

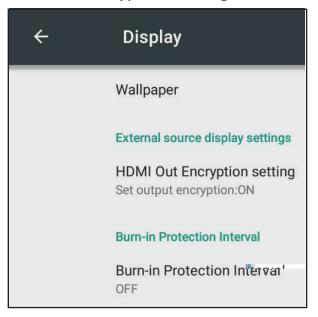
Users can change their home launcher theme.

÷	Theme	
	● 😡 vLauncher	T.
	O Corporate	
	Education	

vLauncher cannot be removed.

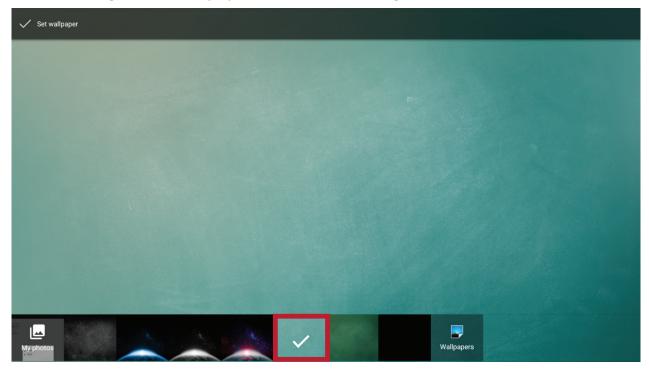
Display

Adjust the Wallpaper, HDMI Out Encryption setting, and Burn-in Protection Interval.



Wallpaper

Users can change their wallpaper with default images, or



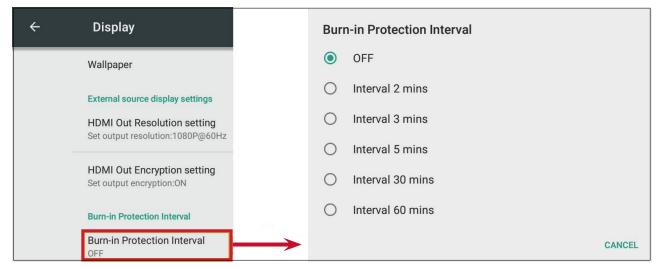
can use their own by tapping **My photos** and selecting the image file.

✓ Set wallpaper		
	Select File Storage Image: Distribution of the second	
му работов		allpapers

Users can turn on or off the encryption function.

÷	Display			
	Wallpaper			
	External source display settings		HDMI Out Encryption setting	
	HDMI Out Encryption setting Set output encryption:ON	\rightarrow	OFF	
	Burn-in Protection Interval			
	Burn-in Protection Interval OFF			WAQ

This setting allows the user to program the time between movements of the picture in minutes.



Burn-in Protection must be enabled in the OSD Menu first.

Storage

Users can check the storage status of their ViewBoard.

÷	Storage settings	
	Device storage	
	89.70 MB Used of 9.76 GB	
	Internal share 89.70 MB used	
	Portable storage	
	JOWEY-HOMI 10.76 GB used	

Sound

Users can enable or disable touch sounds.

÷	Sound	
	Touch sounds	

Personal

View and adjust Security, Startup & Shutdown, Language & Input, Password for screen lock, Input, and Other Settings.



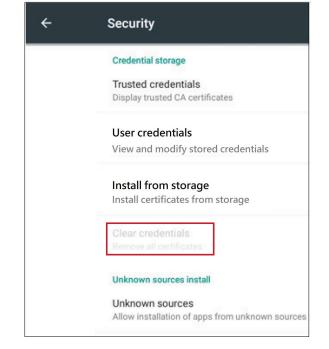
Security

Review Credential storage and Unknown sources Install settings.

Show all trusted AC credentials that have been installed on the ViewBoard.

÷	Security	~	Trusted credentials		
	Credential storage		SYSTEM	USER	
	Trusted credentials Display trusted CA certificates	\rightarrow	AC Camerfirma S.A. Chambers of Commerce Root - 2008	•	
	User credentials View and modify stored credentials		AC Camerfirma S.A. Global Chambersign Root - 2008	•	
	Install from storage Install certificates from storage		AC Camerfirma SA CIF A82743287 Chambers of Commerce Root		
	Clear credentials Remove all certificates		AC Camerfirma SA CIF A82743287 Global Chambersign Root	•	
	Unknown sources install			ACCV	
►).	Unknown sources Allow installation of apps from unknown sources	•	ACCVRAIZ1		
			Actalis S.p.A./03358520967 Actalis Authentication Root CA		
			AddTrust AB AddTrust Class 1 CA Root	•	
			AddTrust AB AddTrust External CA Root	•	

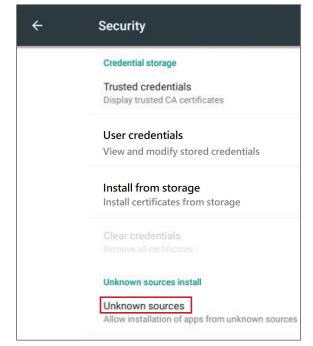
Clear any previously installed credentials.



Pre-loaded credentials cannot be cleared.

Unknown Sources

Enable the installation of apps from unknown sources.



Apps from unknown sources may not be compatible.

Language & Input

Adjust the Language and Input method of the Embedded Player.

Language

Choose from the available languages.

÷	Language & input	÷	Language
	Language	>	Deutsch
	Keyboard & input methods		English
	Current Keyboard English (US) - Player Keyboard (AOSP)		Español
	Google Pinyin Keyboard Chinese		Français
	Player Keyboard (AOSP) English (US)		Polski
		•	Türkçe
		-	Русский
			العربية
			中文 (简体)
			中文 (繁體)

Current Keyboard

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



View and adjust advanced entry settings.

÷	Language & input	← 🏢 Google Pinyin Keyboard Settings	
	Language English	Sound on keypress On	
	Keyboard & input methods Current Keyboard English (US) - Player Keyboard (AOSP)	Context input Off	
	Google Pinyin Keyboard Chinese	← B Player Keyboard Settings (AOSP)	
	Player Keyboard (AOSP) English (US)	Languages English (US)	
		Preferences	
		Appearance & Layouts	
		Advanced	

Startup and Shutdown

Set the Startup Channel, Standby Mode, Black Screen After Startup, and adjust Timer settings.

÷	Startup and shutdown			
	Startup and shutdown option	1		
	Startup channel Last shutdown channel	O Default startup channel	PC	
	Built-in PC startup option			
	startup only through PC built	-in startup option	◯ startup through any channel	
	Standby Mode O Hibernate		Sleep	
	Black screen after startup			
).	Timer switch			4
	Close power off reminder			
	Boot time		Off time	
	+ Add task			

Startup Channel

Adjust the startup channel preference.

Startup channel		
C Last shutdown	Default startup	PC
✓ channel	Channel	Embd Player
		HDMI1
		HDMI2
		HDMI3
		VGA
		AV

Adjust the built-in PC startup preference.

Built-in PC startup option	
startup only through PC built-in startup option	Startup through any channel

Standby Mode

Decide what happens when you press the **Power** button while the ViewBoard is On.

Sleep

Standby Mode		
O Hibernate		

Hibernate

When enabled, pressing the **Power** button will turn off the ViewBoard and the system.

Sleep

When enabled, pressing the **Power** button will turn off the ViewBoard's backlight, but the system will remain on.

To enable sleep mode:

1. The user needs to provide their ViewBoard's serial number (S/N) to ViewSonic. The S/N label is located near the I/O side.



2. ViewSonic will then provide the KEY (FakePowerOff) file to the user.

] FakePowerOff

- **3.** After receiving the KEY file, copy the file to a USB drive.
- **4.** Insert the USB drive into the USB port of the ViewBoard.

The KEY file MUST match the ViewBoard's S/N.

5. Select "Sleep".

- The user does not need to restart the system.
- If the user sets the **Standby Mode** to **Hibernate** then to **Sleep** again, the user needs to repeat steps 3 to 5.

When enabled, the ViewBoard will turn off the backlight automatically after the scheduled boot time.

 \checkmark

Black screen after startup

When enabled, the ViewBoard will turn off the directory without any reminder after the scheduled off time.

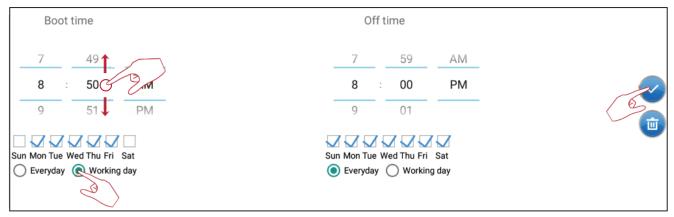
Close power off reminder

To add a schedule:

1. Tap the "+" icon.

Boot time	Off time	
+ Add task		
Boot time	Off time	
10 59	10 59	
11 : 00 AM	11 : 00 AM	2
12 01 PM	12 01 PM	
Sun Mon Tue Wed Thu Fri Sat Everyday Working day	Sun Mon Tue Wed Thu Fri Sat	

2. Adjust the desired times and days. Then tap the \checkmark to save.



Password for Screen Lock

Set a screen lock password by selecting **Set**, inputting a password, and selecting **OK**.

÷	Password		
	Screen lock password		
_	Set	Input Password Input 4 digit password	
		nfirm Password Please enter the password again	
		OK Cancel	

Enable/disable Input Alias Switch, Wake on Active Source, Channel Auto Switch, Auto Search, and set No Signal Power off.

Input Alias Switch

Once enabled, the user can edit input aliases and when the **Display** button is pressed the source information (located in the upper left side) will also be changed.

<u>,</u>	Input Setting			
	Input Alias Switch			
	PC	PC	🔘 display) hide
	Embd Player	Embd Player		
	HDMI1	HDMI1	🔘 display	🔘 hide
	HDMI2	HDMI2	💿 display	🔘 hide
	HDMI3	HDMI3	🔘 display	🔘 hide
	VGA	VGA	🔘 display	🔿 hide
	AV	AV	 display) hide
	Wake on active source			
	Auto search			
	Channel auto switch ON			
	No signal power off OFF			

Users can also choose to Display or Hide the input source.

÷	Input Setting		
	Input Alias ชิพเซียชาต		
	PC	PC	
	Embd Player	Embd Player	
	HDMI1	HDMI1 O display O hide	
	HDMI2	HDMI2 O hide	
	HDMI3	HDMI3 O display O hide	
	VGA	VGA (isplay) hide	
	AV	AV (isplay) hide	
	Wake on active source		
	Auto search		
	Channel auto switch ON		
	No signal power off OFF		

Embd Player cannot be hidden.

The ViewBoard will detect HDMI and VGA signals in Standby mode. If HDMI or VGA has a signal output, the ViewBoard will power on automatically.

Auto Search

When enabled, if the current source does not have a signal, the ViewBoard will automatically search the input sources one time.

Channel Auto Switch

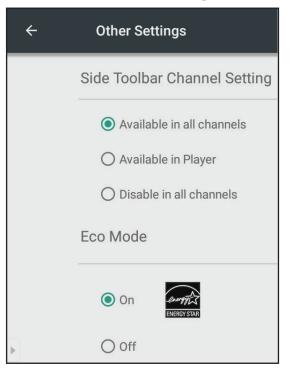
When enabled, if the ViewBoard detects a new signal input it will switch the input source automatically.

Adjust the "No Signal" power off timer.

Enable/disable HDMI CEC functions.

HDMI CEC	
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	•

Adjust Side Toolbar Channel and Eco Mode settings.



Side Toolbar Channel

Adjust the side toolbar availability.

ECO Mode

When enabled, the ViewBoard will turn off automatically after sixty (60) minutes of Embedded Player source being idle or after five (5) minutes of other input source without signal.

System

Adjust Date & Time, view About Device, and Advanced Settings.

Date & Time

Set the system time and format.

When enabled, the ViewBoard will automatically synchronize the date and time via the Internet.



Ethernet or Wi-Fi connection is needed.

Set Date

Adjust the values then select **OK** when finished.

	2018	<		Feb	oruary 2	018		>
	Thu,	S	Μ	Т	W	Т	F	S
							2	3
	Feb 1	4	5	6	7	8	9	10
Set date		11	12	13	14	15	16	17
20 51/09		18	19	20	21	22	23	24
		25	26	27	28			
Set time								
11:31 AM						CAN	CEL	ОК

Set Time

Adjust the values then select **OK** when finished.



Select Time Zone

Choose from the available time zones.

÷	Select time zone	:
	Taipei GMT+08:00	
	Seoul GMT+09:00	
	Tokyo GMT+09:00	
	Yakutsk GMT+09:00	
	Darwin GMT+09:30	
	Brisbane GMT+10:00	
	Vladivostok GMT+10:00	
	Guam GMT+10:00	
	Magadan GMT+10:00	
	Adelaide GMT+10:30	

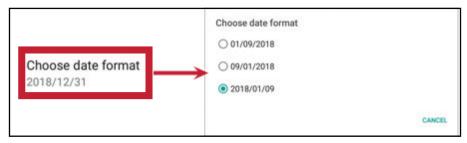
Select Time Format

Choose from 12 hour and 24 hour time format.



Choose Date Format

Select from the available date formats.



About Device

Display Embedded Player information, System Updates, Display ID Setting, and Asset Tag Setting.

System Update

Upgrade the firmware via OTA.

	/iewSonic System Update		1	
	Your system is up-	to-date		
System updates	Last update check	2017/12/28 11:30	-	
ViewSonic		CHEF-UPDATE See the difference	4	
See the difference"	da esta litra da contra do			
New firmware is detected. wou	Ind you like to download?	Your system is u	p-to-date	
New firmware feature: <important> 1. Please DON'T unplug power cord to avoid d process.</important>	levice's unexpected shut-down during	Last update check	2018/01/09 15:33	
2. OTA update process will take few minutes i device auto boot-up.	n black screen, please be patient to wa	ait for	Download progress : 1 %	
20171212 version update information: 1. Add hotspot setting when connect with LB- 2. Upgrade RS232 to V3.1.1 3. Upgrade vCastReceiver to V1.0.1014				
	(e	ж	CANCEL UPDATE	ViewSonic'

Check open source licenses.



Display ID

Change the Display ID.

	Display ID
Display ID	>
	CANAC
\sim	

The Display ID is for RS232 users, and the range is 01~98.

Asset Tag

Key in the asset information.

Asset tag	
67818621	
CA	NCEL OK

Advanced

Set the Mode, check Apps, modify Passwords, and enable/disable USB disk connection.

Mode

- Normal Mode: The embedded screen sharing apps will run normally.
- Security 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.

Mode
Normal mode
O Secured Mode(Remove embedded screen sharing Apps)
O Disable Embedded OS

APP

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

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

÷	Аррз		:
	DOW	NLOADED	USB STORAGE
	English Keyboard English Keyboard version 4.172.54.79		
	FORCE STOP	UNINSTALL	
	Show notifications		
	STORAGE		
	Total App USB storage app Data USB storage data	14.98MB 14.68MB 0.00B 304KB 0.00B	
	MOVE TO USB STORAGE	CLEAR DATA	
	CACHE		
	Cache	48.00KB	
		CLEAR CACHE	
	LAUNCH BY DEFAULT		
	No defaults set.	CLEAR DEFAULTS	

Select the right upper icon for additional options.

÷	Apps				
		Reset app preferences? This will reset all preferences for: • Disabled apps • Disabled app notifications • Default applications for actions • Background data restrictions for apps • Any permission restrictions You will not lose any app data.	CANCEL	RESET APPS	Show system Reset app preferences

Password

Modify the Advanced setting entry password.

USB Disk Enable

Enable/disable USB disk connection.

Privacy

Set the interval for local file storage access.

- » Never: Local storage will be cleaned, and no longer able to save files.
- » **1 Hour:** Files saved to local storage will be deleted after 1 hour.
- » **1 Day:** Files saved to local storage will be deleted after 1 day.
- » Always: Local storage is available, and no files will be deleted.

Privacy Set the interval for local storage file access		
O Never		
○ 1 Hour		
🔿 1 Day		
Always (Local storage is available, no files will be deleted)		
	Cancel	Confirm



Embedded Digital Whiteboard App

Within ViewBoard, ViewSonic offers two versions of the embedded digital whiteboard app, myViewBoard and vBoard Lite, for users to choose from and annotate with.

myViewBoard

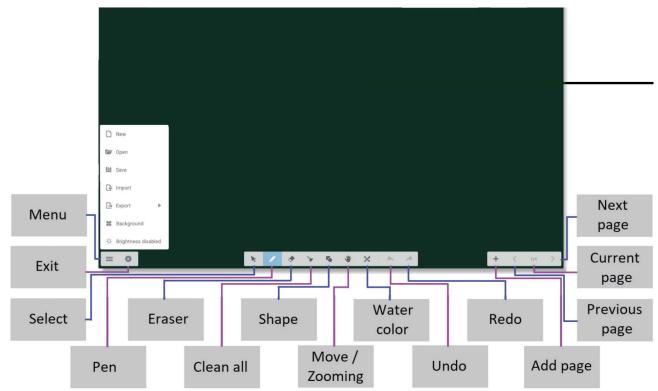
	Move the Floating Bar.		
	Switch between presentation and preparation modes.		
	Paste from the clipboard onto the canvas.		
\bigcirc	Click to open the web browser		
\leftarrow	Go to the previous canvas. 1. New myViewBoard File		
\rightarrow \rightarrow	Go to the next canvas.	2. Open File 3. Save File	
	Add a new canvas.		

Toolbar

•	Full Screen Capture			
	Toolbar Move Button	Select and hold to move the toolbar to the left side, right side, or bottom of the screen.		
	File Button			
	 New myViewBoard File Open File Save File 		4. Save as File5. Export6. Email	
۱	Import resources (image, video, audio, etc.) to the whiteboard.			
•	Infinite Canvas Button	Select – Use two hands to zoom in/out on/of the working panel.		
	Selection Button	Select objects, text, and pictures to get other tools.		
	Pen Button	Writing tools, changing colors, transparency, thickness, etc.		
	Eraser to erase objects or clear the page.			

凳 😒	Shape/Line Button	Create shapes, select shape colors, insert arrows.		
ΠT	Text Box	Creates a Text box.		
00	Undo Button	Undo previous actions.		
CC	Redo Button	Redo previous actions.		
1	Page Toggle ButtonSelect pages, sort pages, delete pages.			
2	Show or hide the current host information.			
	Whiteboard background management menu.			

<u>vBoard Lite</u> User Interface:



New	D	New	Click to create new file
Open		Open	Click to open *.enb format file
🖹 Save	Ŀ	Import	Click to import *.jpg format file
🕒 Import	出	Save	Click to save current content to *.enb format
Export ►	Γ ∔	Export	Cilck to export c urrent content
Background			
·茯- Brightness disabled	*	Back- ground	Click to change background
	-Ò.	Auto bright- ness	Click to enable/disable auto brightness

Watercolor Feature

^ ∐ ♠

Additional annotation tool option within vBoard lite.

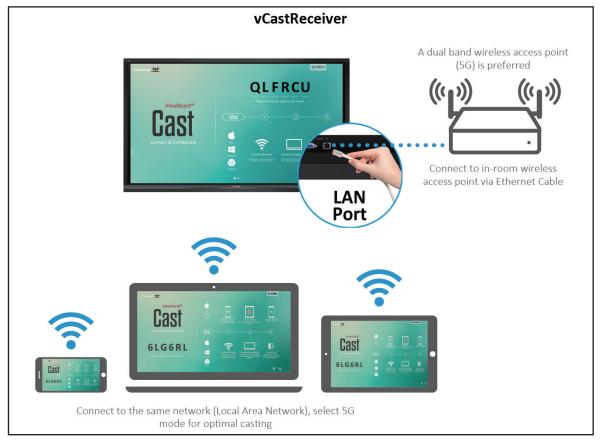


< 1/1 +

ltem		Description
	Pen	Click to select different type Note : In pen mode, it supports up to 10 points for writing
	Thickness	Click to change thickness
0	Palette	Select color then press and rotate the circle on palette to ad- just color
Ø	Dipper	Click dipper to dip up color for pen
	Color disc	Click to change pen color

ViewBoard Cast

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



- 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: 8001

• DNS: h1.ee-share.com

Cast Sender from Windows-based Devices, 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 ViewBoard Cast and click the icon number that is shown on the ViewBoard.

based phone/tablet.



Android:

- **1.** Make sure your device is connected to the same network as the ViewBoard.
- **2.** Enter the password that is shown on the ViewBoard.
- **3.** Scan the QR Code that is shown on the ViewBoard to download the client.
- 4. Open the ViewBoard Cast client.

iOS:

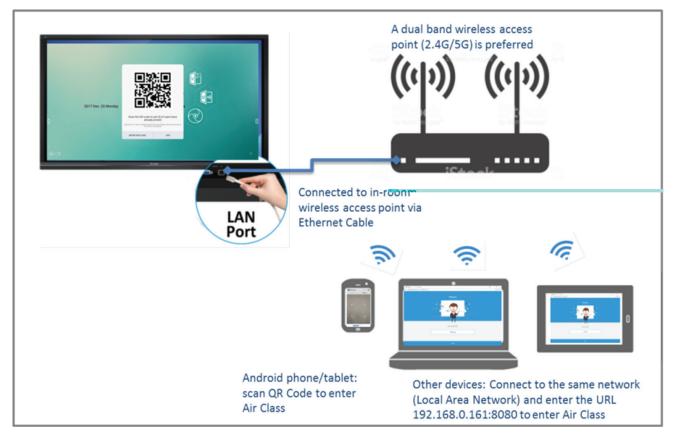
- **1.** Make sure your device is connected to the same network as the ViewBoard.
- **2.** Enter the password that is shown on the ViewBoard.
- 3. Select the device, then the iOS operation interface will appear.

ViewSonic 👥	511-151	\gg
	E111E1	\bigcirc
	511151	\leftarrow
ViewBoard®	Please enter the pin code on your device.	7 7
L'ASI	Setup 1 2 3	
Connect & Collaborate		Ł
	Mac Connect Network Download Application Launch Make sure your device is connected to Visit http://102.168.01198.8000/wth Launch Cast and cl	\Diamond
	The same network with the device. Web browser to download application, conn	\mathbb{W}
	••	Ô

Item		Description
\triangleright	Toggle	Click to hide or display tool bar
ŝ	Home	Click to return to home interface
Ś	Return	Click to return to previous operation interface
٢-	Folder	Click to view or open mobile device internal file
	Screen sharing	Click to share screen (Android 5.0 above supported)
\mathbb{A}	Touch	Click to change to touch mode
\Diamond	Pen	Click to make annotation in the picture Click to change color or thickness
Ŵ	Clear	Click to clean all the elements
Ô	Camera	Click to use camera then send the image to IFP50

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.



- 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

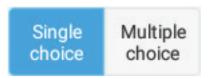
Select "Enter Air Class" on the ViewBoard and select one of the interactive functions to open the Air Class interface.





- CD Voter
- 1. Click the Single choice or type.

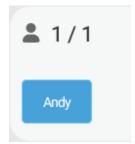
icon to select the preferred answer



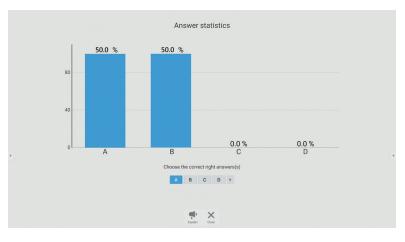
2. Click the **BEGIN** icon to let the participants start.



3. After the participants are finished and press the **OK** icon, the ViewBoard will show the participant's name on screen.



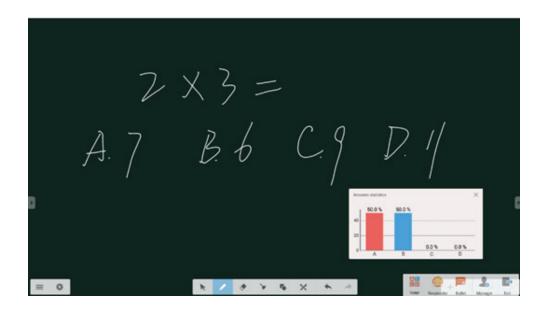
4. Click the **Finish** icon to close the quiz, then the "Answer Statistics" will be displayed.



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



6. Click the 📌 icon to explain and further analyze the topic.



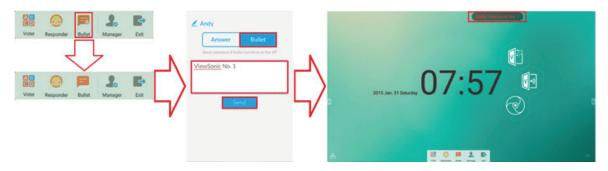
🔎 Responder

Participants need to select the **OK** icon to answer.



🥫 Message

Click to enable/disable the message function.



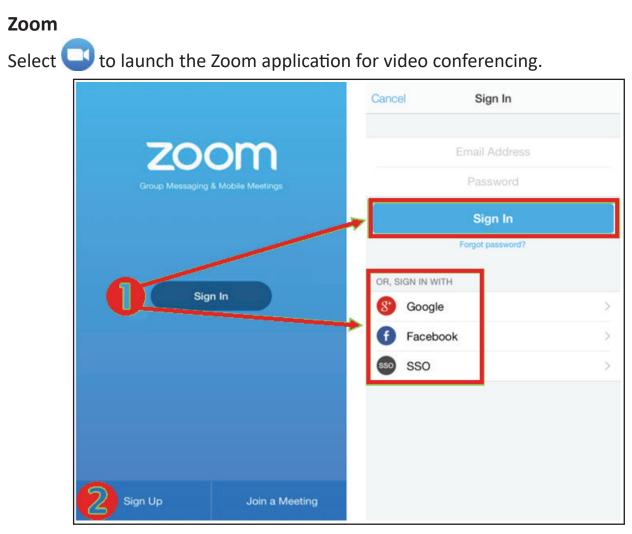
Message operation:

- 1. Click the Message icon to enable the function.
- 2. Participants select the Message icon to change the Message interface.
- **3.** Participants key in their message then click the **Send** icon.
- **4.** The message will appear at the top of the ViewBoard.

💑 Manager

Select the icon to display a QR Code to let more participants join the class.

Select to exit the Air Class interface.



- **1.** Select **Sign In**. Enter your email and password or sign in with your Google, Facebook, or SSO account.
- 2. If you do not have a Zoom account, you will need to select Sign Up.

	Join a Meeting
	If you received an invitation link, tap on the link to join the meeting.
	Meeting ID
Q Jump to chat	Join with a personal link name
	Jane Doe
Schedule or Host a Meeting	
	Join Meeting

- 1. Select
- **2.** Enter the Meeting ID of the meeting you want to join.

.

.

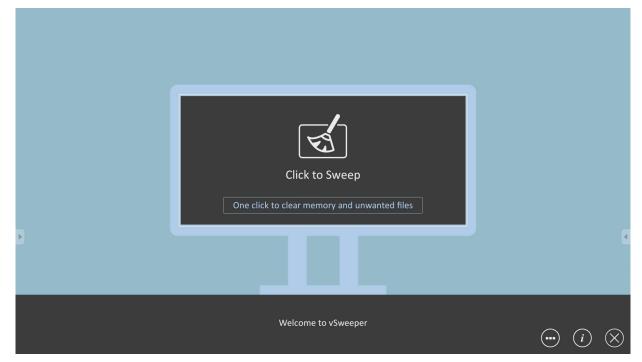
3. Select

C Jump to chat	< Video On Use Personal Meeting ID (PMI) Upcoming Meetings Schedule a Meeting	Back My Meetings Refresh Personal Meeting ID -311- 311- -311- https://lukehaselwood zoom.us/my/lukehaselwood Edit Start Send Invitation Edit Tue, January 6, 2015, 10:00 AM Topic: Support Call Host: Luke Haselwood Host: Luke Haselwood 559
Audio Video Share	s to join this meeting Participants More Mute All Unmute All	Invite Messages Messages Message+ Composition Email Grnail Invite Zoom Contacts Invite H.323/SIP Room System Copy URL

- 1. Select
- **2.** Choose the meeting options:
 - » Choose to have Video On or Off.
 - » Choose to Use Personal Meeting ID or a unique meeting ID.
- 3. Select
- **4.** Invite meeting participants by selecting at the bottom of the screen.
- **5.** Select **Invite** at the bottom of the Participants screen.
- 6. Choose participants by using the contact method you prefer.

Sweeper

Select the select the sweeper application and clear unnecessary data and unwanted files.



Screen Lock

Select the 🗂 icon to set a screen lock password or enable screen lock.

If the user forgets the password, use the remote control and press **INPUT 0214** to restore the password to default.

Set Password

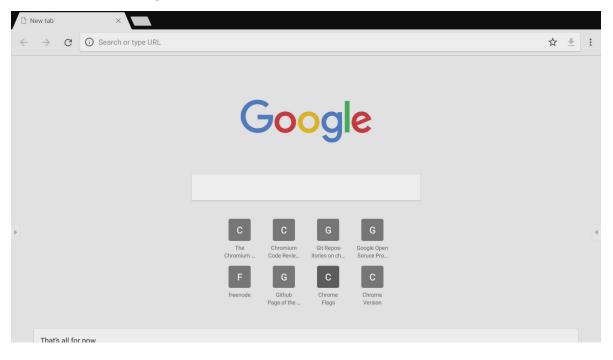


Screen Lock Enabled

Plane		
1	2	3
4	 5	6
7	8	9
	0	

Chromium

Web browser for surfing the Internet.



Folders

1	Folders 3	
Storage USB1	All Doc Note Picture Media Image: Diteration of the state of the	entrance california and a second seco
E 000	2 Ⅲ □ □ □ ↓ □ ▲ □ ④ · ·	2017-11-01-16-27-35.png Dimension 1920-1980 Size: 923.6768 Time: 2017/11/01

1. Storage Device Display

Select the appropriate storage device.

2. Icons

ltem	Description
Exit	Click to exit.
Sort	Click to sort file.
🔠 Thumbnail	Click to display file by thumbnail mode.
List	Click to display file by list mode.
Select	Click to select file.
Add folder	Click to add folder.
Е Сору	Click to copy file.
Paste	Click to paste file.
Cut	Click to cut file.
Delete	Click to delete file.
Rename	Click to rename file.
More	Click to show more functions.

3. File Type Menu

Item	Description		
All	All types		
Doc OFFICE files			
Note	Image stored by vBoard Lite, Side Tool Bar, and remote control Screen Capture button.		
Picture	Image files		
Media	Audio and Video files		

4.

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

5. Main Display Area

Display files of corresponding type.

> 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

Below, "PC" represents all the control units that can send or receive the RS232 protocol command.

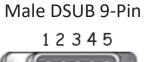
ViewSonic LFD communication port on the rear side:

- 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



9876





3.5 mm barrel connector (alternative for limited space)

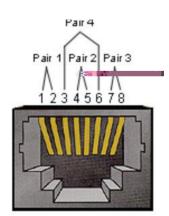


Pin #	Signal	Remark
1	NC	
2	RXD	Input to Display
3	TXD	Output from Display
4	NC	
5	GND	
6	NC	
7	NC	
8	NC	
9	NC	Provide +5V/2A power for external specific dongle *3.0
frame	GND	

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

ViewSonic LFD communcation 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	

- Baud Rate Select:
- Data bits:
- Parity:
- Stop Bits:

- 9600bps (fixed) 8 bits (fixed) None (fixed) 1(fixed)
- Type: 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

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.

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

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

"

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

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

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

Name	Length	ID	CR	
Hex	Hex 0x34		0x2B	0x0D
		0x32		

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

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

	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	μ	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.
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

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.

(Length=126 Bytes)

6 Bytes	6 Bytes		•••		24 Bytes
OxFF FF FF	MAC address	MAC address		MAC address	0x00 00 00

	Length	ID	Command	Con	nmand	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	6	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	3	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	Value range is same as SET- Input select
						00A: Embedded/ Main (Android)	

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	

	H MONITORS									
	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")

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.

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

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

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

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

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

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

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

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

by this model.

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30	0x67	0x26	0x30	0x30	0x30	0x0D
		0x35						

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

	Length	ID	Command	Comr	nand	Response	Comments
						Range	
			Type (ASCII)	Code (ASCII)	Code (Hex)	(Three ASCII bytes)	
Get-Brightness	8		g	b	62	000 ~ 100	
Get-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
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		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

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

	Length	ID	Command	Com	mand	Response	Comments
						Range	
			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

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) 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.

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

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

Кеу		Basic	
		*3.1.1	*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	

		1	
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 [F3]	2E		
BLUE 📕 (F4)	2F		

- 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.



ltem	Category	
Model		IFP9850-3
Screen Size		97.52″
Input Signal		3 x HDMI
		1 x VGA
		1 x PC audio
Output Signal		1 x HDMI
		1 x Earphone
		1 x SPDIF
Speaker Output		12W x 2
RS232		RS232 Communication
Power	Voltage	100V-240V AC 50/60Hz
Operating	Temperature	32° F to 104° F (0° C to 40° C)
Conditions	Humidity	20%~80% non-condensing
	Altitude	≤ 2,000 m
Storage	Temperature	-4° F to 140° F (-20° C to 60° C)
Conditions	Humidity	10%~90% non-condensing
	Altitude	≤ 2,000 m
Dimensions	Physical (mm)	2245 x 1323 x 91
Weight	Physical (kg)	101.5
Power	On	171W
Consumption	Off	<0.5W

Product specifications are subject to change without notice.

Display Modes

VGA Mode

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
1920 x 1200	60Hz

HDMI Mode

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

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

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

PC Mode

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

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

Video Not Working Properly

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

Maintenance

- 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.

If condensation appears between the glass and the panel, keep the display turned on until the moisture disappears.



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-3 (B)/NMB-3(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 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.



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	
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

- 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:



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.

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:

http://www.viewsonic.com/company/green/recycle-program/

Europe:

http://www.viewsoniceurope.com/eu/support/call-desk/

Taiwan:

https://recycle.epa.gov.tw/

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Microsoft, Windows, and the Windows logo are registered trademarks of Microsoft Corporation in the United States and other countries.

ViewSonic[®], the three birds logo, OnView, ViewMatch, and ViewMeter are registered trademarks of ViewSonic[®] Corporation.

VESA is a registered trademark of the Video Electronics Standards Association. DPMS, DisplayPort, and DDC are trademarks of VESA.

Disclaimer: ViewSonic[®] Corporation shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from furnishing this material, or the performance or use of this product.

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

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Customer Service

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

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

You will need the product's serial number.

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[®].

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[®].

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[®].

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

Exclusion of damages:

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

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

Contact Information for Sales & Authorized Service (Centro	Autorizado de Servicio) within Mexico:	
Name, address, of manufacturer and importers: México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas, Col. San Fernando Huixquilucan, Estado de México Tel: (55) 3605-1099 http://www.viewsonic.com/la/soporte/index.htm		
NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004		
<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	<i>Monterrey:</i> 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	

