

ViewSonic®



CDE7500/CDE8600 **Commercial 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 cuidadosamente las instrucciones en este manual"

Model No. VS16869/VS17353

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 !



Compliance Information

NOTE: This section addresses all connected requirements and statements regarding regulations. Confirmed corresponding applications shall refer to nameplate labels and relevant markings on unit.

For CDE7500

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

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

Following information is only for EU-member states:

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



For CDE8600

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. ViewSonic is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the 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 might cause undesired operation.

CAN ICES-3 (A)/NMB-3(A)

CE Conformity for European Countries



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

Following information is only for EU-member states:

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



Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Indian Restriction of Hazardous Substances

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

Declaration of RoHS2 Compliance

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

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium (Cr ⁶⁺)	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%
Bis(2-ethylhexyl) phthalate (DEHP)	0.1%	< 0.1%
Butyl benzyl phthalate (BBP)	0.1%	< 0.1%
Dibutyl phthalate (DBP)	0.1%	< 0.1%
Diisobutyl phthalate (DIBP)	0.1%	< 0.1%

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

Examples of exempted components are:

1. Lead as an alloying element in aluminium containing up to 0.4% lead by weight.
2. Copper alloy containing up to 4% lead by weight.
3. Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
4. Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound.

Cautions and Warnings

1. Read these instructions completely before using the equipment.
2. Keep these instructions in a safe place.
3. Heed all warnings and follow all instructions.
4. Always handle the Display with care when moving it.
5. Never remove the rear cover. This Display contains high-voltage parts. You may be seriously injured if you touch them.
6. Do not use this equipment near water. **Warning:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
7. Avoid exposing the Display to direct sunlight or another heat source. Orient the Display away from direct sunlight to reduce glare.
8. Clean with a soft, dry cloth. If further cleaning is required, see the “Care and Maintenance” section in this guide for further instructions.
9. Avoid touching the screen. Skin oils are difficult to remove.
10. Do not rub or apply pressure to the panel, as it may permanently damage the screen.
11. Do not block any ventilation openings. Install the equipment in accordance with the manufacturer’s instructions.
12. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.
13. Place the Display in a well ventilated area. Do not place anything on the Display that prevents heat dissipation.
14. Do not place heavy objects on the Display, video cable, or power cord.
15. If smoke, an abnormal noise, or a strange odor is present, immediately switch the Display off and call your dealer or ViewSonic. It is dangerous to continue using the Display.
16. 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, consult an electrician for replacement of the outlet.
17. Protect the power cord from being tread upon or pinched, particularly at the plug, and the point where it emerges from the equipment. Be sure that the power outlet is located near the equipment so that it is easily accessible.
18. Only use attachments/accessories specified by the manufacturer.
19. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the equipment. When a cart is used, use caution when moving the cart/equipment combination to avoid injury from tipping over.

(Continued on next page)



- 20.** Unplug this equipment when it will be unused for long periods of time.
- 21.** Refer all servicing to qualified service personnel. Service is 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 into the unit, if the unit is exposed to rain or moisture, or if the unit does not operate normally or has been dropped.
- 22.** The Unit is a Monitor with LED backlight intended for general office used.

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Copyright Information

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 is a trademark of SRS Labs, Inc.

Premium Sound technology is incorporated under license from SRS Labs, Inc.

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As an ENERGY STAR® partner, ViewSonic Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

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Product Registration

To fulfill possible future product needs, and to receive additional product information as it becomes available, please visit your region section on ViewSonic's website to register your product online.

The ViewSonic CD also provides an opportunity for you to print the product registration form. Upon completion, please mail or fax to a respective ViewSonic office. To find your registration form, use the directory “:\CD\Registration”. Registering your product will best prepare you for future customer service needs.

Please print this user guide and fill the information in the “For Your Records” section. Your Displays serial number is located on the rear side of the display.

For additional information, please see the “Customer Support” section in this guide.

For Your Records

Product Name:	CDE7500/CDE8600 ViewSonic Commercial Display
Model Number:	VS16869/VS17353
Document Number:	CDE7500_CDE8600_UG_ENG Rev. 1A 02-21-18
Serial Number:	_____
Purchase Date:	_____

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 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: <http://recycle.epa.gov.tw/recycle/index2.aspx>

1. Getting Started

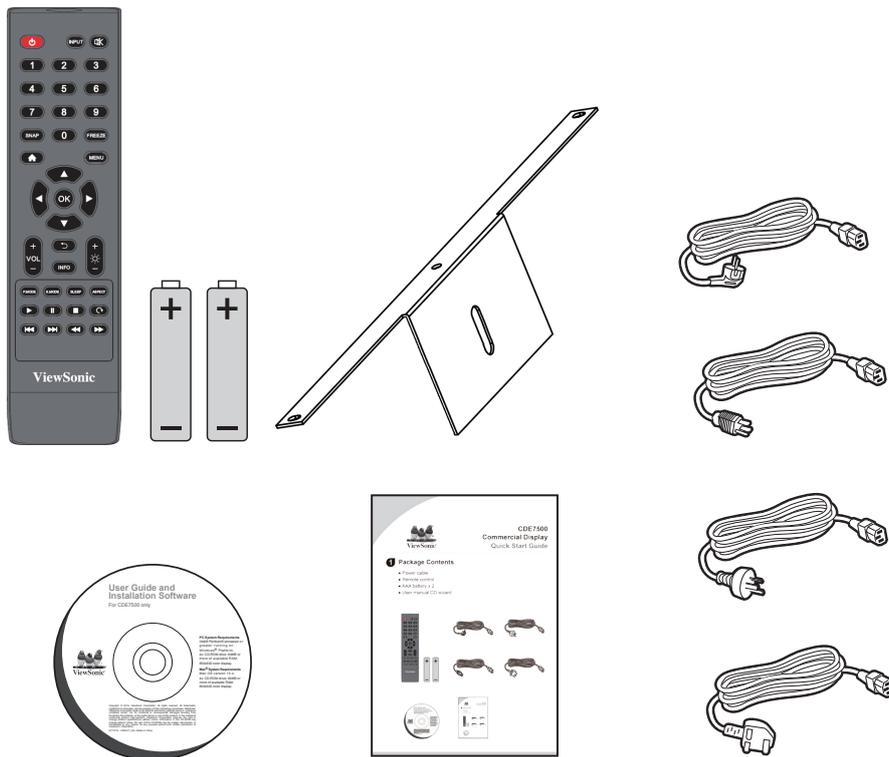
Congratulations on your purchase of a ViewSonic® Display.

Important! Save the original box and all packing material for future shipping needs.

Note: The word “Windows” in this user guide refers to Microsoft Windows operating system.

1.1 Package Contents

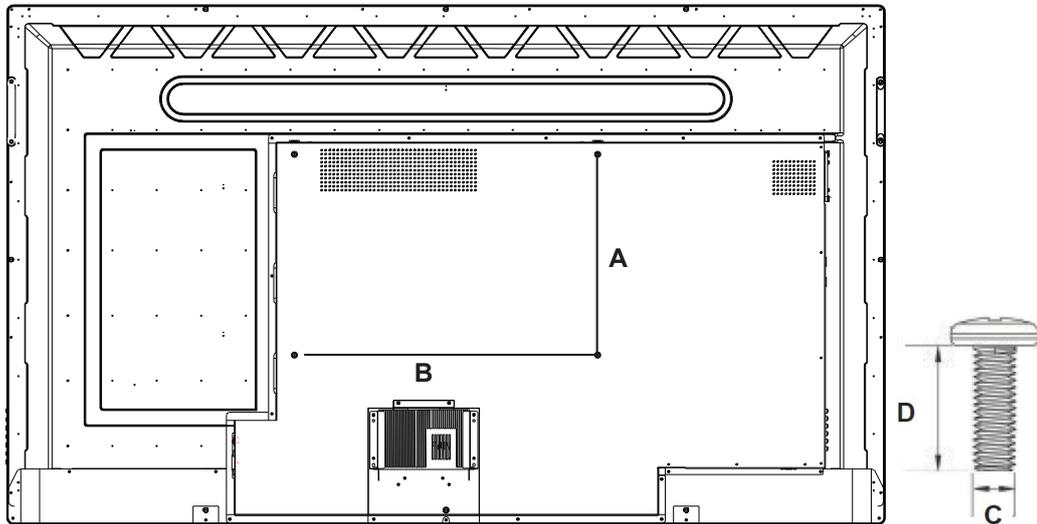
- Power cable by country
- Remote control
- AAA battery x 2
- Camera plate
- User manual CD wizard (for CDE7500 only)
- Quick Start Guide



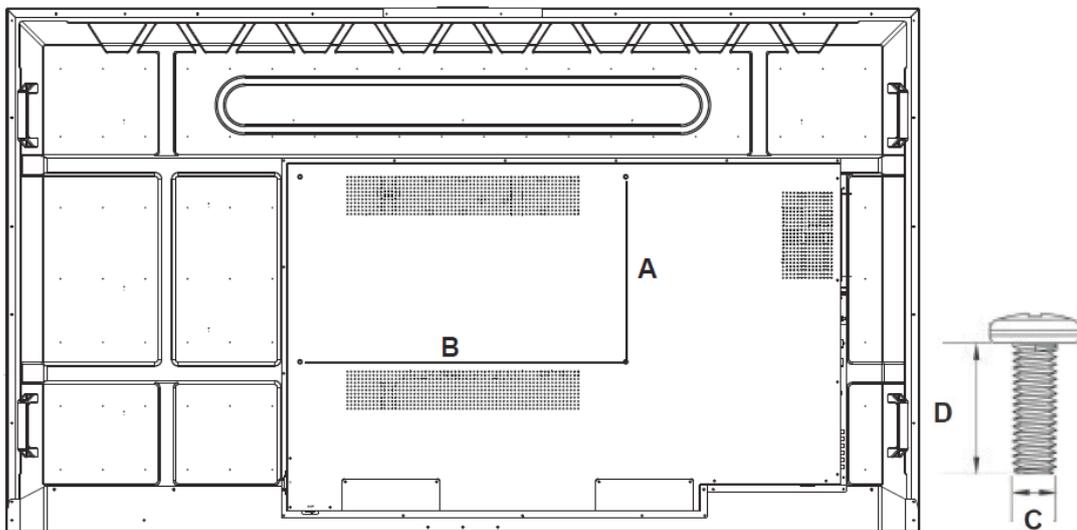
1.2 Wall Mount Kit Specifications (VESA)

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.

CDE7500



CDE8600



Model	VESA Spec. (A x B)	Standard Screw (C x D)	Quantity
CDE7500	600 x 400 mm	M8 x 20 mm	4
CDE8600	700 x 400 mm	M8 x 20 mm	4

- ViewSonic provides the standard dimensions for wall mount kits as shown in the table above.
- To find the perfect mount, please browse www.viewsonic.com or call our service team.
- When purchasing our wall mount kit, a detailed install manual and all parts necessary for assembly are provided.
- Do not use screws that are longer than the standard dimension, as they may cause damage to the inside of the Display set.

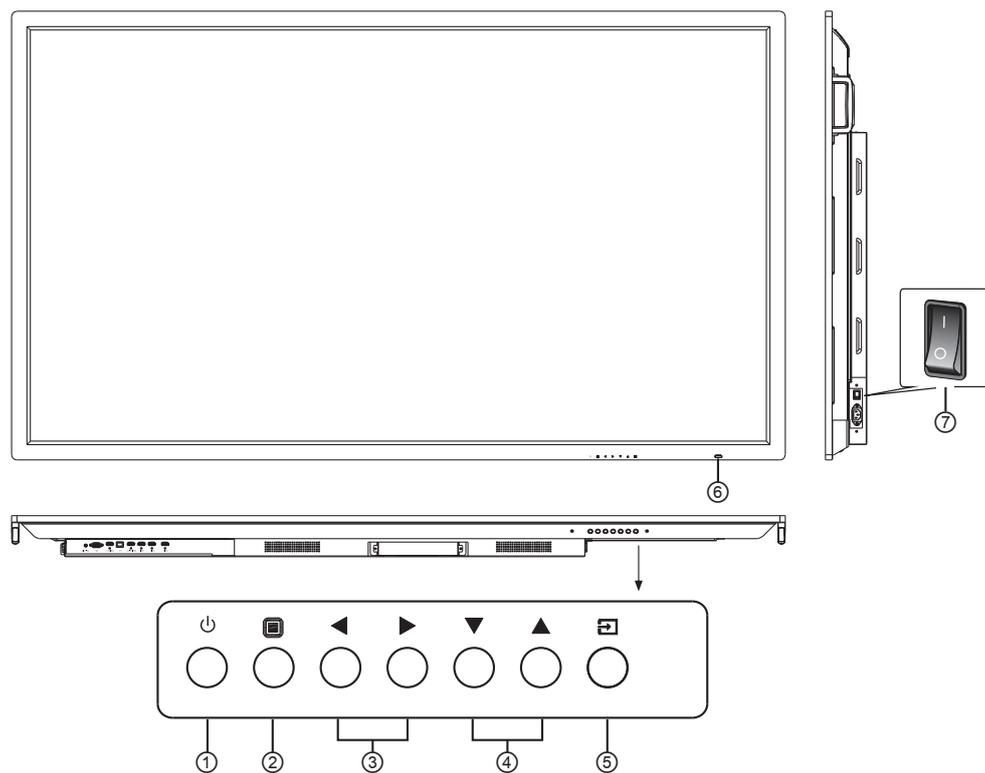
2. Display Features

This section introduces you to the features of your Display.

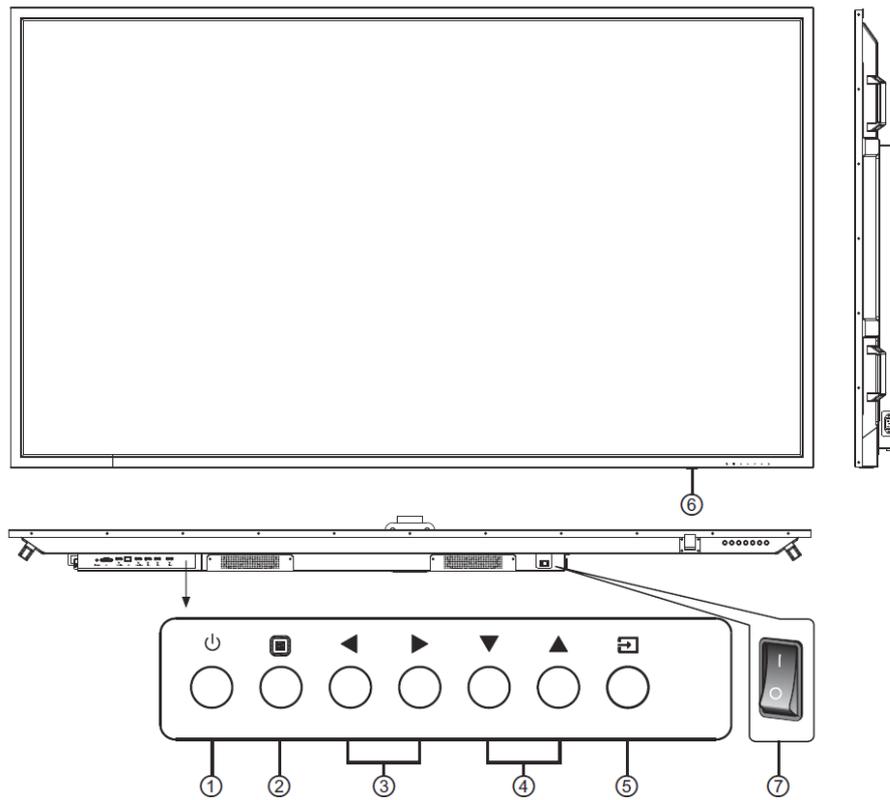
Note: The features or applications described in this User's manual may vary depending on the device model purchased.

2.1 Control Panel Overview

CDE7500



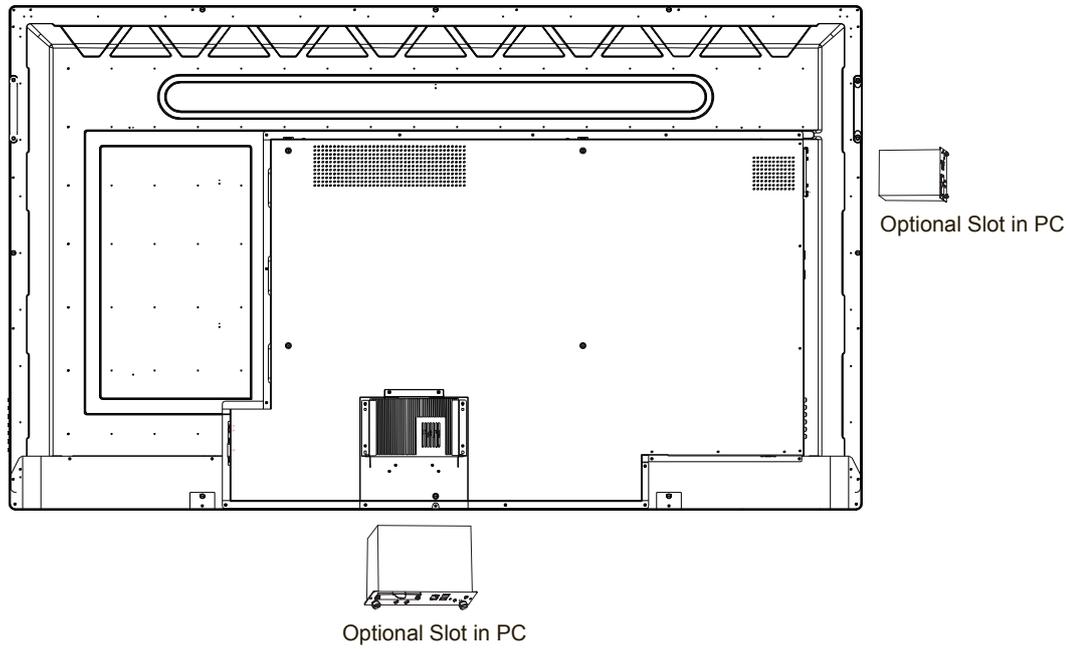
CDE8600



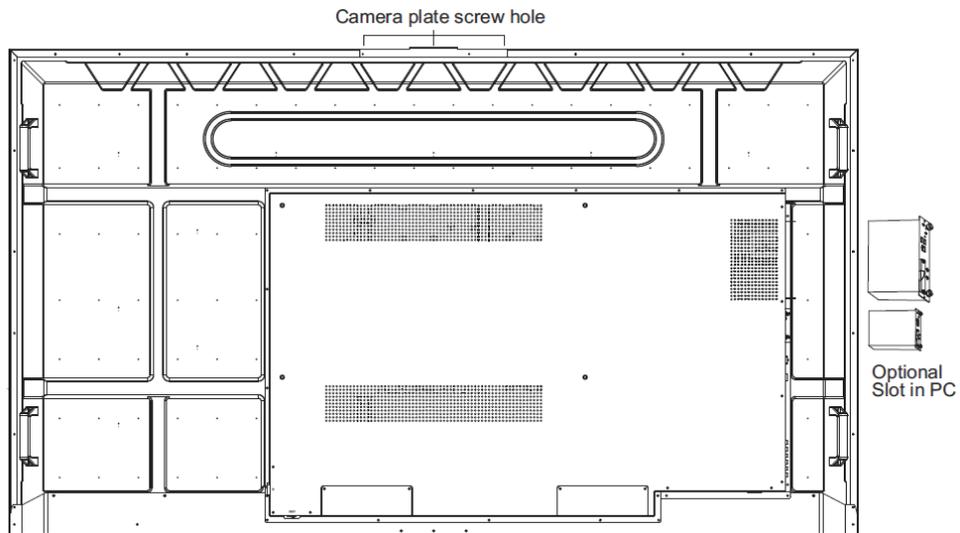
Item	Description
①	Power On/Standby button
②	Press to show the OSD (On Screen Display) menu
③	VOL + / VOL - button; select or adjust menu options
④	BRI+ / BRI- button; select or adjust menu options
⑤	Press to show Input Source menu
⑥	Indicator and remote receiver
⑦	AC Power On/Off switch

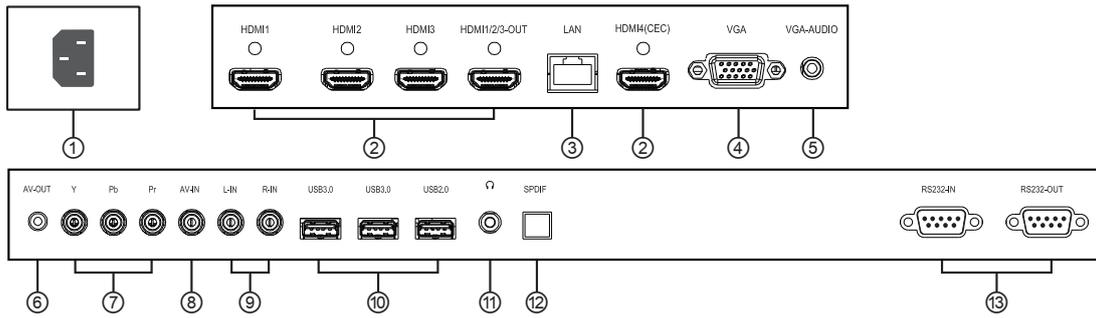
2.2 Terminal Interface Overview

CDE7500



CDE8600



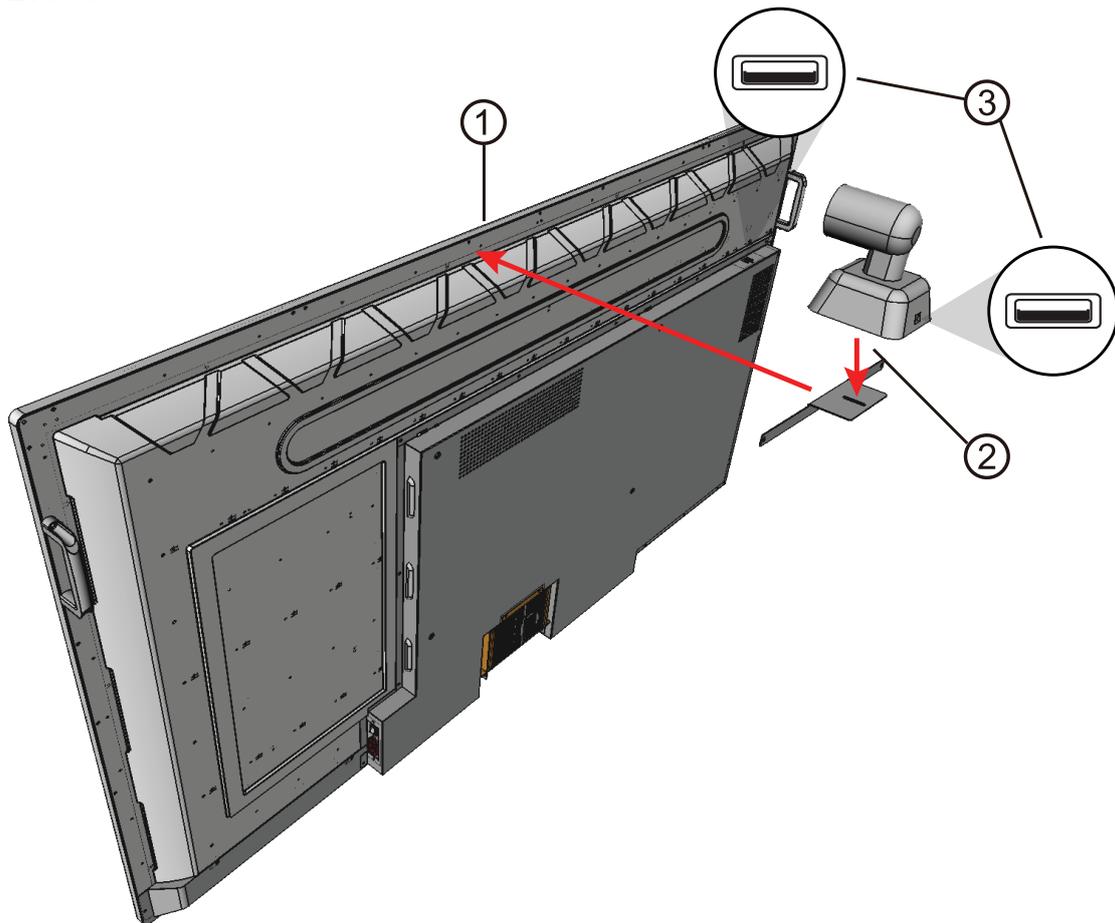


Item	Description	Item	Description
①	Power port	⑧	AV-IN port
②	HDMI ports	⑨	AUDIO IN port
③	LAN port	⑩	USB ports
④	VGA port	⑪	Headset port
⑤	VGA-AUDIO	⑫	SPDIF port
⑥	AV-OUT	⑬	RS232 IN/OUT port
⑦	YPbPr/YCbCr IN ports		

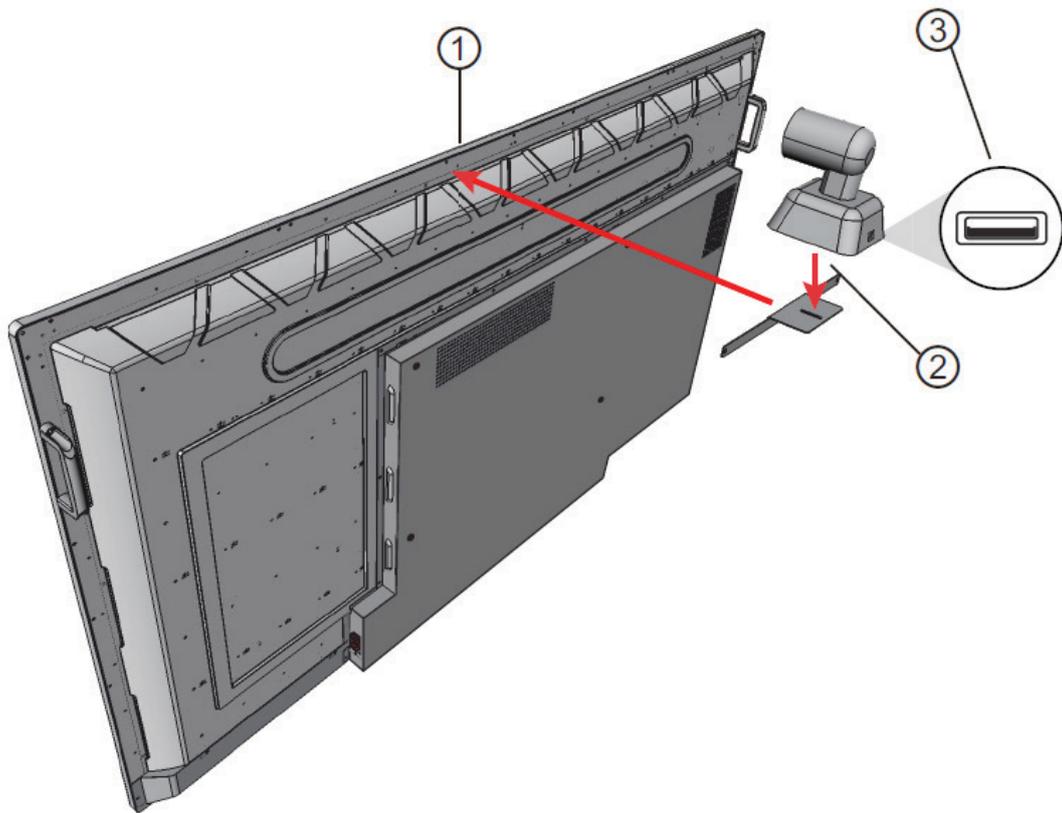
2.3 Camera Plate Installation

1. Install camera plate with screws on the top of the display (screw holes are located on the backside)
2. Install camera on the camera plate with screw
3. Plug camera USB cable in USB port of the display

CDE7500



CDE8600



2.4 Remote Control Overview

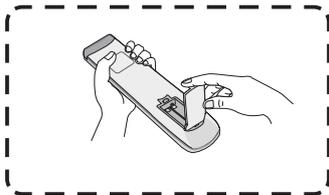


	Switch between normal operation and standby
SNAP	Take screenshot
	Enable or disable sound
NUMERIC KEYS	Input any number
FREEZE	Enable or disable freeze function in the system
HOME	Display the main launcher
MENU	Display the on screen menu
CURSOR KEYS 	Select or adjust menu options
VOL +/-	Adjust volume
	Return to the previous setting interface
INPUT	Display the input source selection menu
BRI +/-	Adjust brightness
S.MODE	Select the sound mode
SLEEP	Set the sleep time and auto standby when the specified time is reached
ASPECT	Switch the aspect ratio on the screen
P.MODE	Select the picture mode
OK	Confirm the operation
	For operation of multimedia functions in the intelligent platform
INFO	Display the content information of the input source

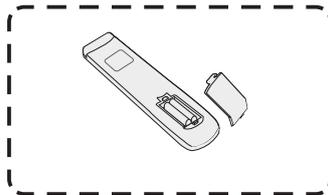
2.5 Inserting Remote Control Batteries

To insert the provided batteries into the remote control follow these instructions. We recommend that you don't mix battery types.

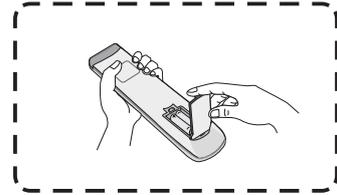
1. Remove the cover on the rear of the remote control.
2. Insert two "AAA" batteries, ensuring the "+" symbol on the battery matches the "+" on the battery post.
3. Replace the cover by aligning it with the slot on the remote control and snapping the latch shut.



(1)



(2)



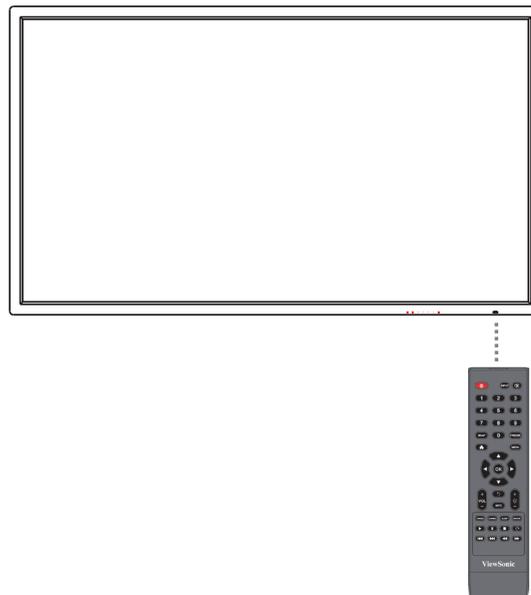
(3)

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

Note: Always dispose of old batteries in an environmentally friendly way. Contact your local government for more information on how to dispose of batteries safely.

2.6 Remote Control Receiver Range

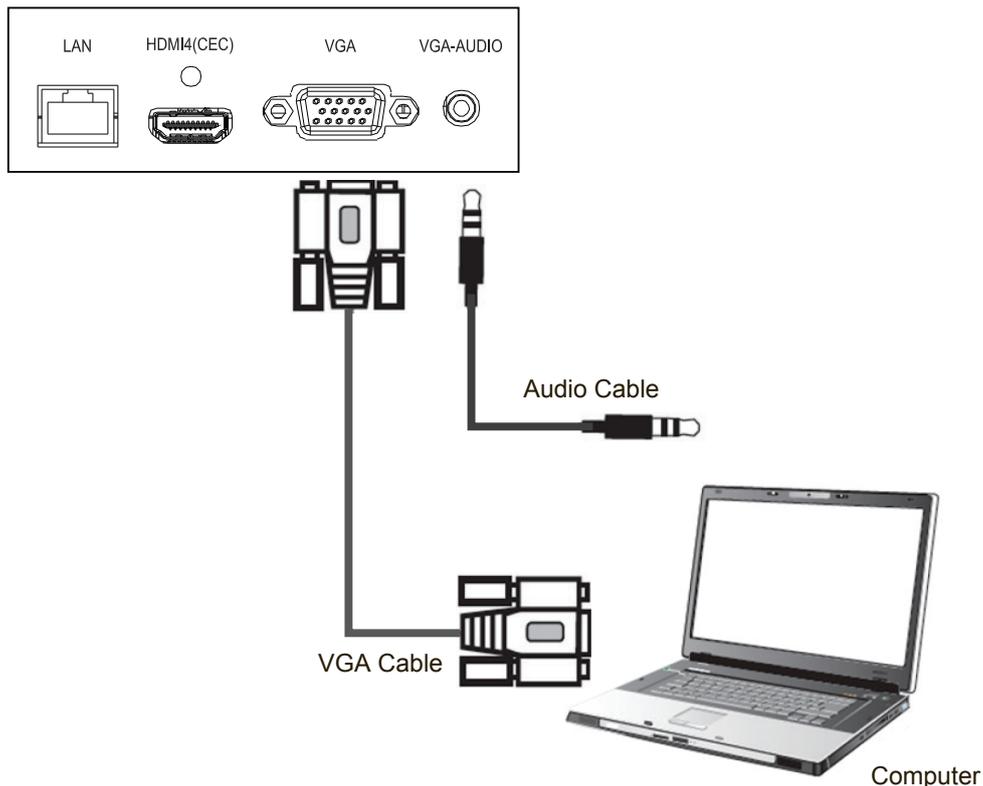
The working range of the remote control receiver is shown here. It has an effective range of 8 meters. Make sure there is nothing obstructing the remote control's signal to the receiver.



3. Setting Up Your Display

Warning: For the safety of you and your unit, please do not connect to a power supply before the external device is prepared.

3.1 Connecting an External PC



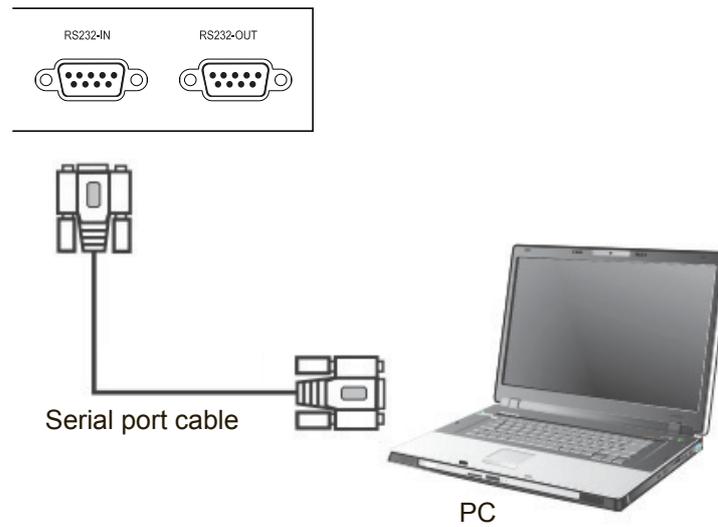
To display video and sound from an external PC follow the instructions below.

Note: External PCs can also be connected to the display via HDMI cable.

- Connect a VGA cable (15-pin) from your external PC to the VGA IN port on the display.
- Connect an audio cable from the AUDIO OUT port on your external PC to the AUDIO IN port on the display.

Note: For optimal results, select 1920x1080p as the external computer's input resolution.

3.2 RS232 Connections

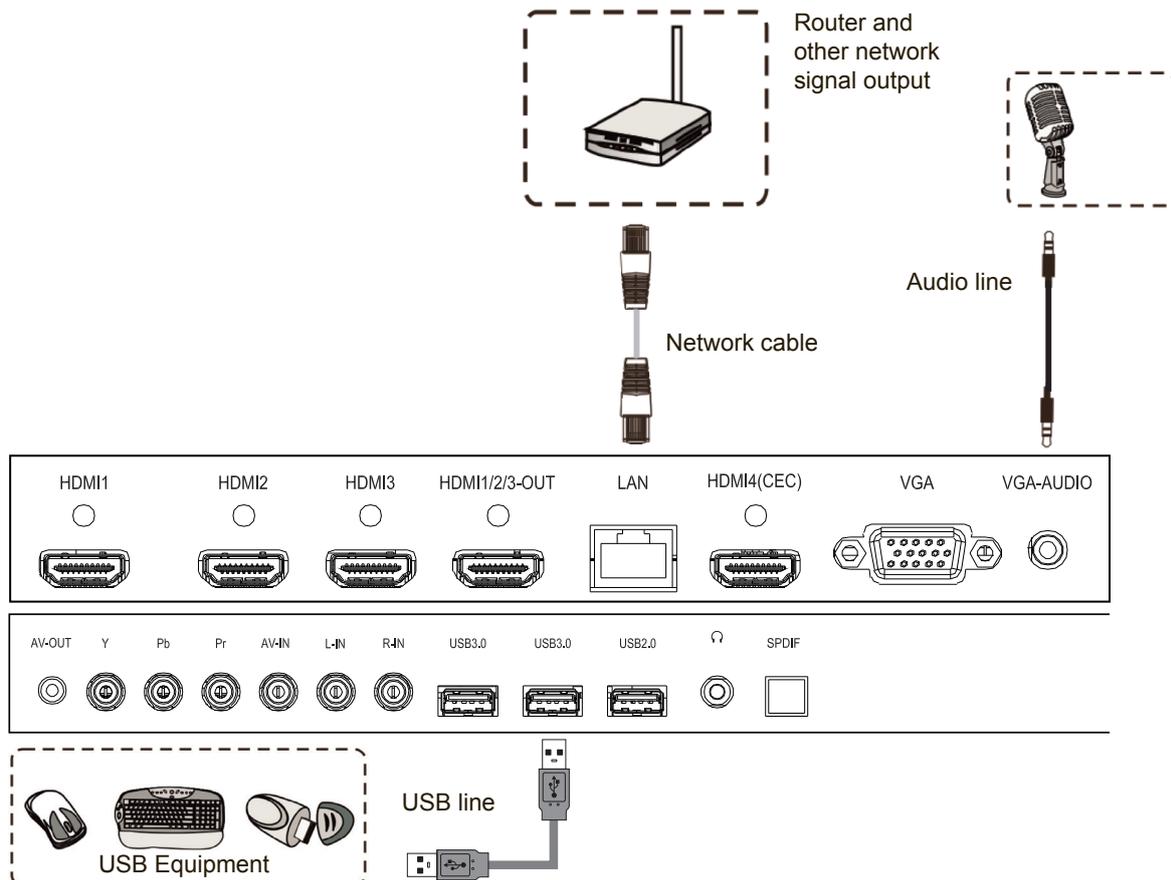


When you use a RS232 serial port cable to connect your display to an external computer, certain functions can be controlled by the PC, including power on/off, volume adjustment and more.

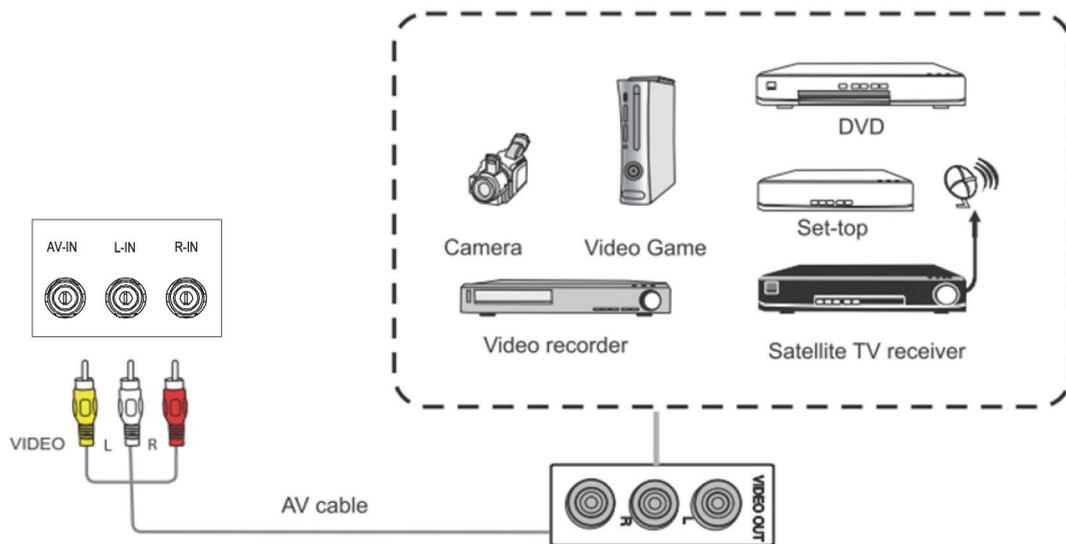
3.3 Connecting USB Peripherals

Just like a regular PC, it is easy to connect various USB devices and other peripherals with your smart whiteboard.

1. USB Peripherals: Plug the USB device cable into the USB IN port.
2. Networking and modem cables: Plug the router cable into the LAN IN port.
3. Microphone: Plug the microphone cable into the MIC port.

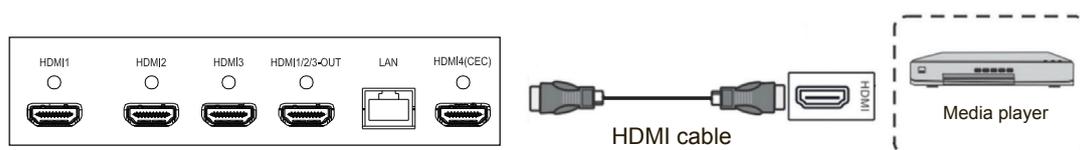


3.4 AV IN Connections



1. Connect a 3-color AV cable from the AV IN ports on your display to the AV OUT ports of a peripheral device (AV cable: Yellow is Video, Red is Audio-R, White is Audio-L).
2. Plug in the power cord, and turn on the rear-panel power supply switch.
3. Press the  button on the right-hand side of the display to turn the screen on.
4. Press the INPUT button to switch to the “AV” source.

3.5 HDMI Connections



1. Connect the HDMI cable to the HDMI ports on your display and peripheral device.
2. Plug in the power cord, and turn on the rear-panel power supply switch.
3. Press the  button on the right-hand side of the display to turn the screen on.
4. Press the INPUT button to switch to the HDMI source.

NOTE:

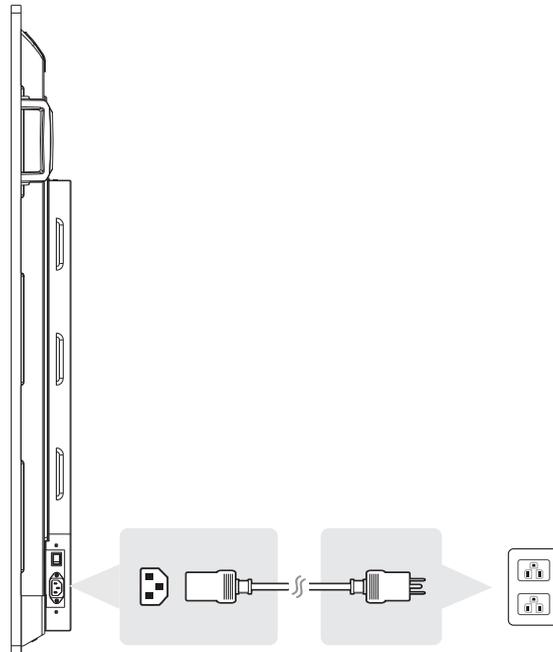
- (1). The HDMI output port is only available for the inputs of HDMI1, 2, and 3.
- (2). Only HDMI4 features CEC function.
- (3). For Apple Mac, please use HDMI4.

3.6 Power On/Standby

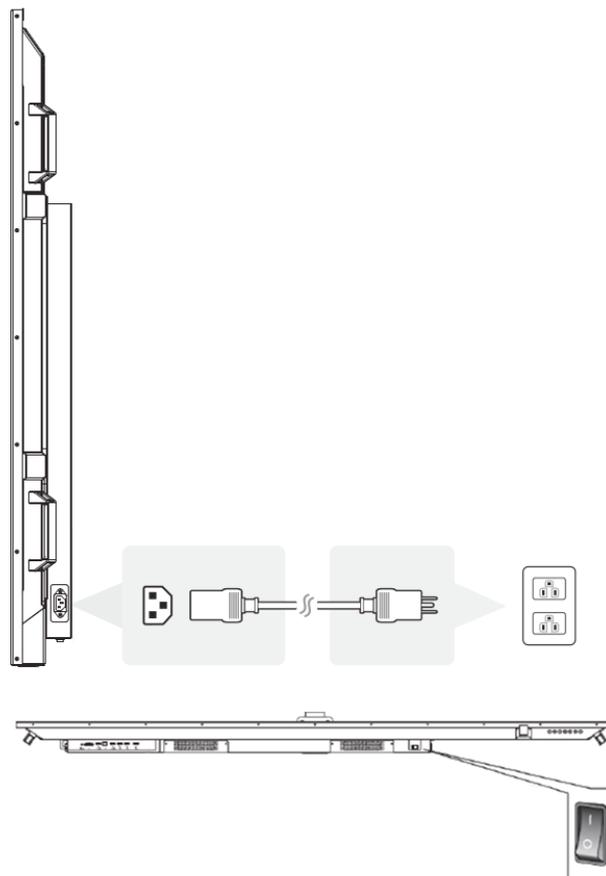
Insert the power plug into the power outlet. First turn on the On/Off button “ⓘ” on the product, if available; then press “⓪” on the remote control or control panel to turn on the product.

In power-on state, press “ⓘ”, and the product will enter standby.

CDE7500

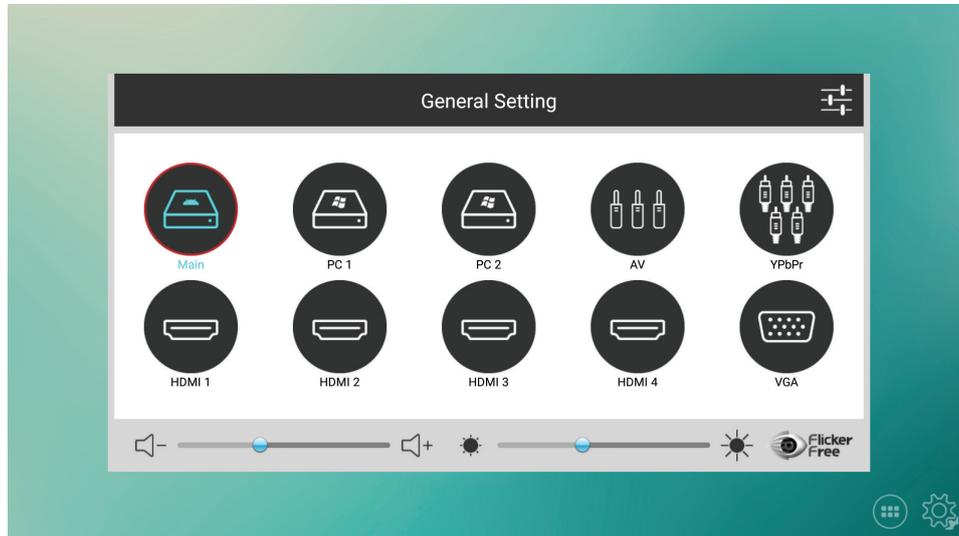


CDE8600



4. OSD Menu Operation

4.1 General Setting



To select an input source:

1. Press INPUT button on remote control to display the general setting menu.
2. Press DOWN / UP / LEFT/ RIGHT to select the input source you want.
3. Press OK button on remote control or to select the input source.
4. Press ↶ key on remote control or click blank area outside menu with touch pen to quit the on-screen menu.

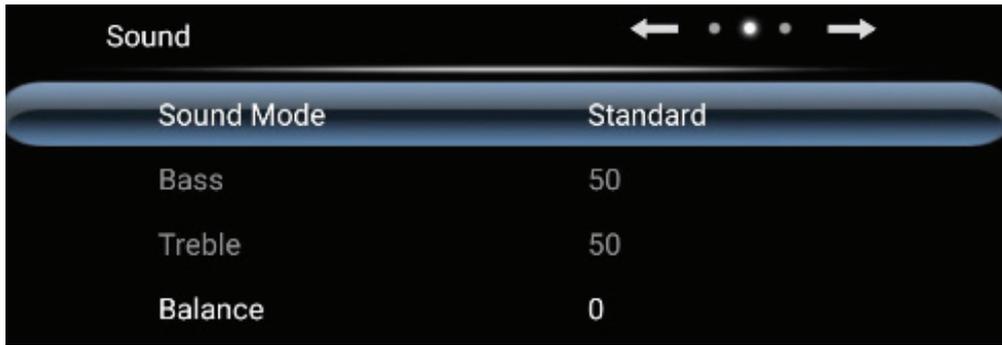
Caution: Touch function only available on IFP series.

4.2 More OSD settings

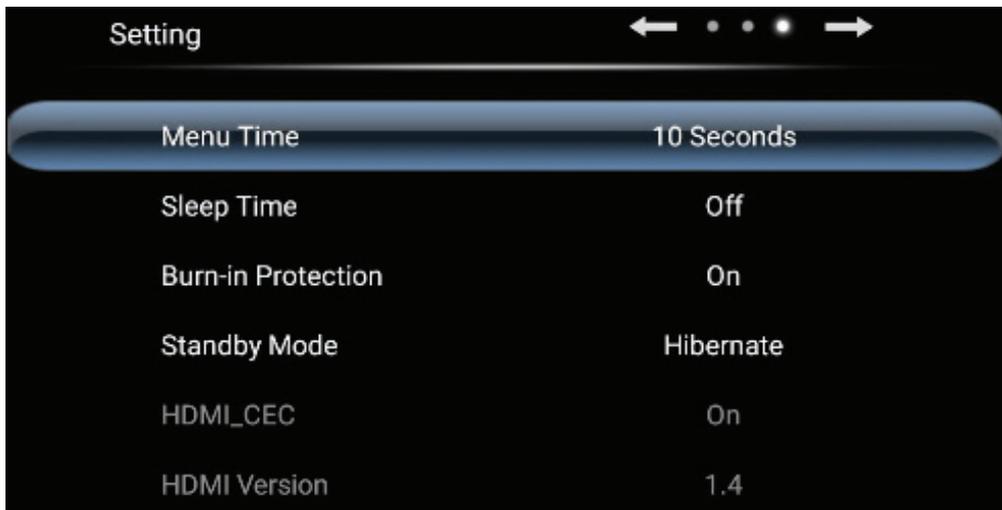
Press the MENU key on remote control to launch OSD menu.
The menus are for all source except MAIN.

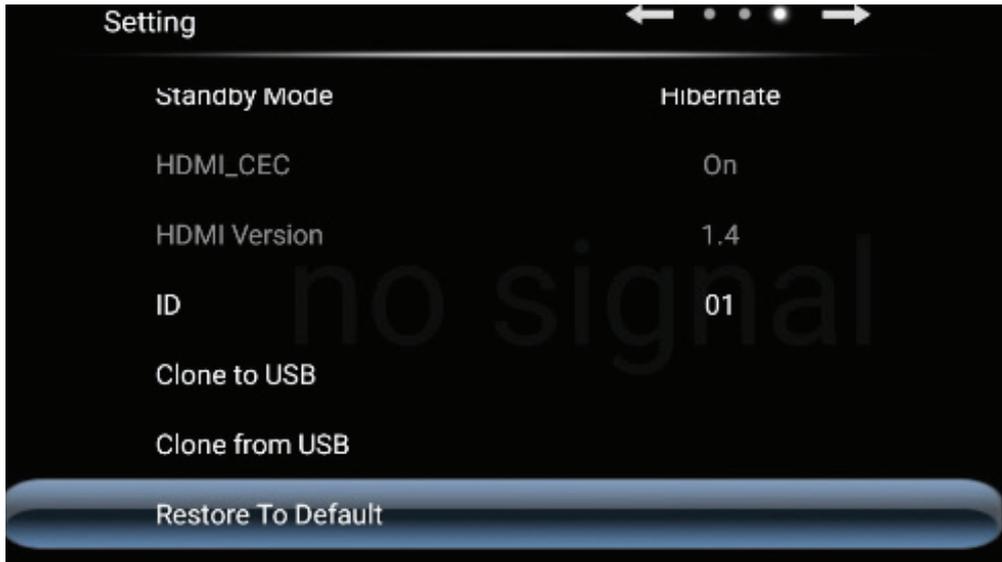


Picture mode	Including Standard, Auto, PC, text, media for various user scenario. Under the USER mode, it's allowed to set contrast, brightness, sharpness level and saturation by user.
PC image mode	The function only available when input source is VGA for display clock, phase, horizontal/vertical position adjustment. Usually suggest to adjust by Auto Tune.
Color Temperature Mode	Adjust display color temperature. It includes Standard, Warm and Cold. It's allowed to adjust BLUE Light level under Filter mode from 4500K (0) to 11000K (100).
Zoom mode	Adjust screen image aspect ratio.



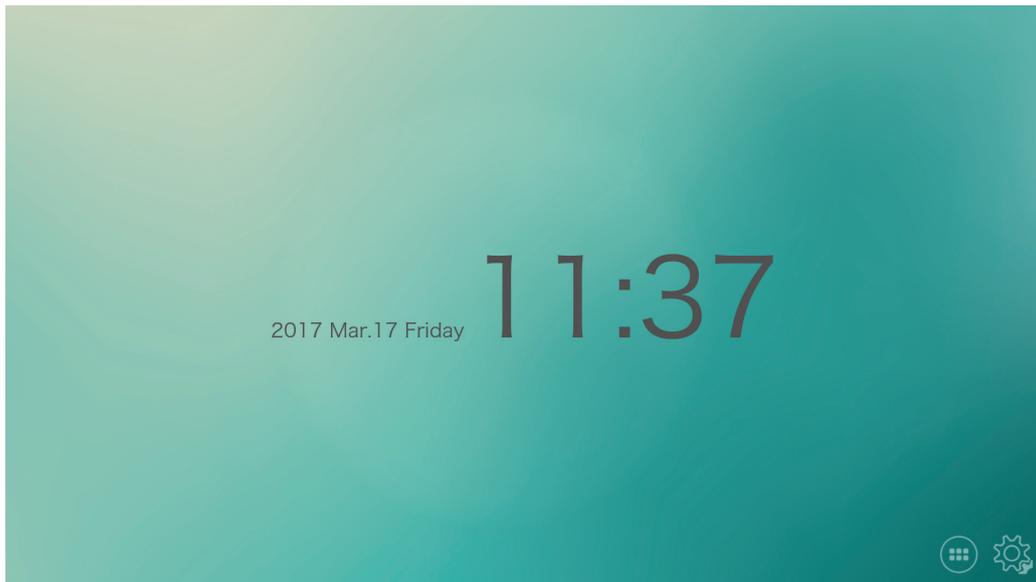
Sound mode	Build in music, movie, sports for different scenario. It's able to adjust Bass and Treble level under user mode.
Balance	Adjust sound balance between left/right speaker. Default is set on 0. Increase L/R value to set the sound toward left/right speaker.





Menu Time	To set OSD menu auto off timer when display is idle.
Sleep time	To set the display auto off timer.
Burn-in Protection	To prevent the symptom of LCD screen burn, the screen will shift pixels automatically in specific time.
Standby mode	To set the different power saving mode for standby. Hibernate(default): turn off panel backlight when a display idle over 5 mins and power off display after an hour. User is able to wake up display by remote control, keypad power button and RS-232. Sleep: Turn off panel backlight and major function after a display idle over 5 mins. Display system still work on sleep mode. User is able to wake up display by remote control, keypad power button, RS-232 an LAN.
HDMI CEC	The feature only available on HDMI4 for CEC function.
HDMI ver.	Adjust HDMI version between HDMI 1.4 or 2.0 for the channel of HDMI4.
ID	To set display ID for RS232/LAN controlling.
Clone to USB/ Clone from USB	Export OSD setting to USB dongle from a display and import the OSD setting to the other one.
Restore to default	Restore OSD settings to default value. System will reboot automatically.

4.3 Launcher



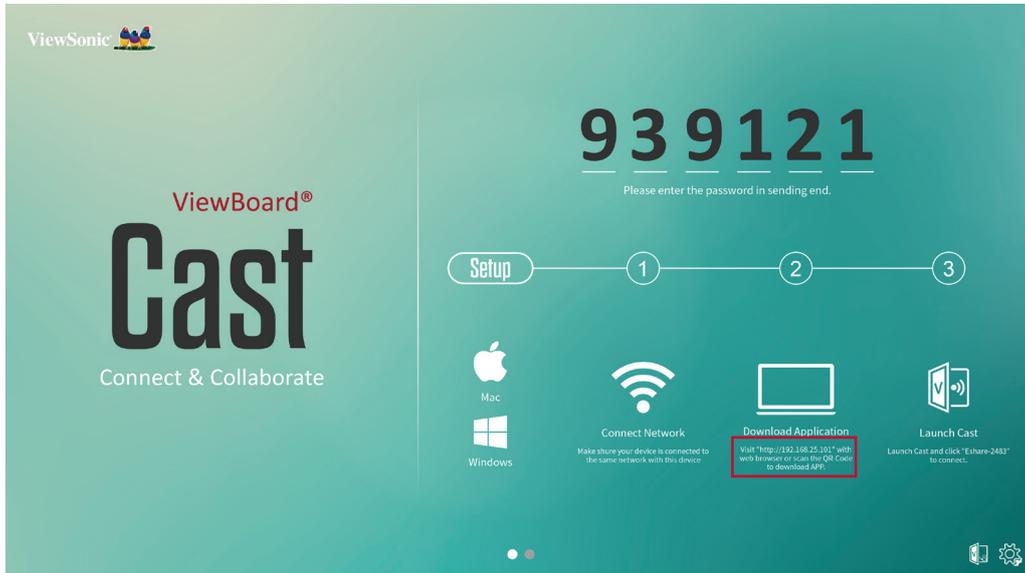
Item	Description	
	APPs	Click to pop up app list.
	Settings	Click to show settings page.

4.4 ViewBoard Cast

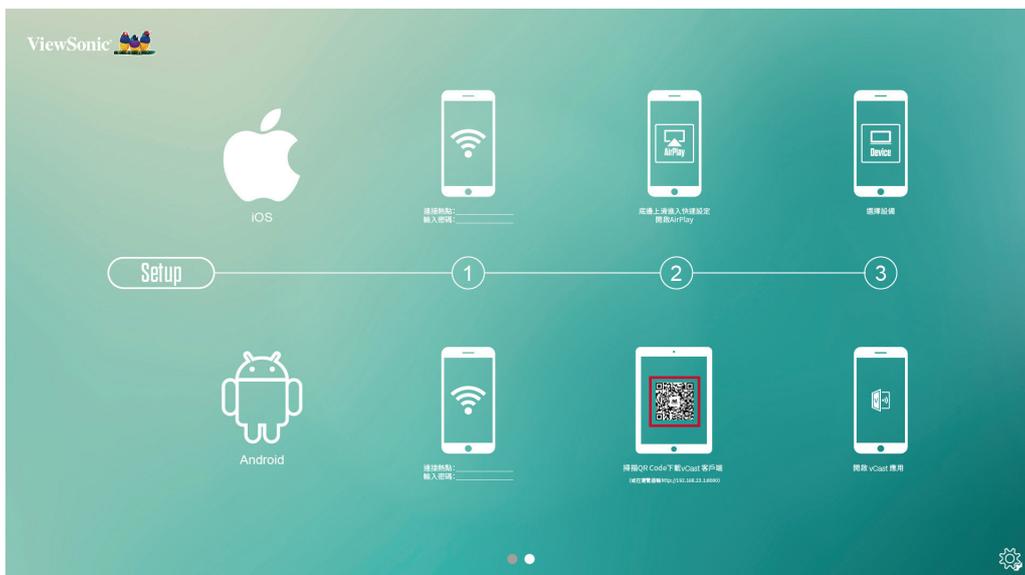
Step 1: Connect your device to the same WiFi environment

Step 2: Install Client application on your device

Windows/Mac: Type the address shown on Viewboard into the browser web address bar (not search bar) and hit enter



Mobile device (iOS/Android): Type the address shown on Viewboard into the browser web address bar (not search bar) and hit enter or scan the QR code shown on Viewboard.



*iOS device can choose to use Airplay to connect

Step 3: Choose the application according to your device and launch the application after installation

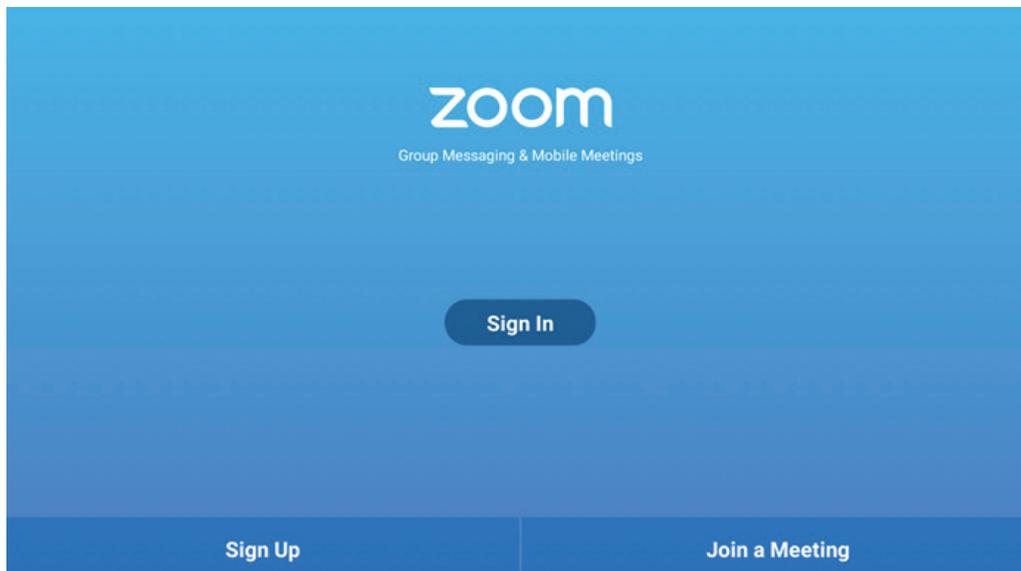
Step 4: Type the PIN code into your device and connect to ViewBoard Cast when PIN code is required (Optional in settings)



The image shows the ViewBoard Cast setup screen. On the left, the ViewSonic logo is at the top, followed by the ViewBoard Cast logo and the tagline "Connect & Collaborate". Below this, a PIN code "939121" is displayed in a red-bordered box with the instruction "Please enter the password in sending end." On the right, there are two rows of icons representing different devices and platforms: iOS and Android, Mac and Windows. A central "Setup" section contains three numbered steps: 1. Connect Network, 2. Download Application, and 3. Launch Cast. Each step includes a brief instruction in English and Chinese. At the bottom right, there are icons for a mobile device and a settings gear.

4.5 Zoom

Click  to run Zoom application.



1. Sign In: login with your existing Zoom account. A social network account might be used to quick login, ex: Facebook.
2. Sign Up: you can quickly register a Zoom account via e-mail, if you do not have one.
3. Join a Meeting: If you have an invitation mail with a meet ID, here you can join a meeting with the Meeting ID.

5. Trouble Shooting

Symptom	Possible Cause	Solution
The screen does not display anything; there is no sound, and the indicator does not come on	Looseness of power plug, power connection failure	Check if the power cord is properly connected
Pictures shown on the product have dotted line or stripe interference	Signal interference caused by automobile, neon light, electric hair dryer, etc.	Do not use electric hair dryer near the product; adjust the antenna orientation to reduce interference
Pictures are colorless	Color saturation is set too low	Enter "Picture" settings to increase the color saturation
The product has no accompanying sound	<ol style="list-style-type: none"> 1. Volume is set too low 2. Sound is muted 	<ol style="list-style-type: none"> 1. Adjust the volume to a proper level 2. Press the "MUTE" key on the remote control to unmute the product
The Display does not display anything, and gives a prompt indicating no signal input; the red indicator blinks	Looseness or removal of the signal connection cable	Check if the signal connection cable is loosened or has come off; if so, reconnect it
Pictures shown on the Display are offset, do not cover the entire screen, go beyond the screen, or are blurred	<ol style="list-style-type: none"> 1. Improper adjustment 2. Wrong display mode 	<ol style="list-style-type: none"> 1. Use the auto adjustment function 2. Enter "Screen Adjustment" to adjust the horizontal or vertical position 3. Use the recommended mode
Short remote control distance, malfunction of remote control	<ol style="list-style-type: none"> 1. The remote receiver of the product is blocked by some object 2. Battery level of the remote control is low 	<ol style="list-style-type: none"> 1. Move the object to avoid blocking the remote receiver 2. Replace the battery
A link cannot be accessed via the browser	<ol style="list-style-type: none"> 1. Wrong network parameter configuration 2. Improper network connection 3. Network service is not activated 	<ol style="list-style-type: none"> 1. Ask the network administrator for available network IP addresses and other parameters 2. Check if the network connection cable is properly connected 3. Consult the network service provider

Symptom	Possible Cause	Solution
Video gets seriously stuck when played online	<ol style="list-style-type: none"> 1. Network bandwidth is low 2. Several movies are buffered or other content is downloaded simultaneously 3. Several devices share the same network 	<ol style="list-style-type: none"> 1. Upgrade your network bandwidth to a higher one 2. Try replacement with other VOD addresses to obtain better resources
The product gets stuck, crashes or cannot be operated	<ol style="list-style-type: none"> 1. Too many programs are running 2. Normal operation of the product is disturbed by external environment (e.g., lightning, static electricity) 	Disconnect the product from power supply; wait for 1-2min and reconnect power supply; then restart the product

6. Care and Maintenance

Please follow these cleaning guidelines to make sure your smart whiteboard display looks like new for years to come:

- Don't clean the machine if it has been turned on for a long period of time.
- Unplug the unit from the wall outlet before cleaning or polishing it.



- Don't use liquid cleaners or aerosol cleaners on the screen.
- Only use a slightly dampened cloth when cleaning the exterior of the unit.
- Don't use system continuously for long periods of time.
- Remember to unplug the display when it is not in use.
- Use a power surge protector to prevent system failures and power supply surges.
- Make sure the display remains dry at all times. Be careful when handling liquids near or on the unit.

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

7. Display Modes

7.1 Overall Specification

Model	CDE7500	
Physical resolution	3840×2160(pixels)	
Pixel pitch	0.429mm×0.429mm	
Response time	8ms	
Brightness	450cd/m ²	
Contrast	1200:1	
Viewing angle	178°/178°	
Chroma	1.07B	
System functions	Contrast, brightness, definition, color saturation, color tone, signal switching, color temperature adjustment, refresh rate switching and running state display	
Control mode	Key control/infrared remote control/RS232 control	
Input voltage	AC 100-240V	
Power consumption	300W	
Dimension (without packing)	1735.4 mm × 1014 mm × 93.2 mm	
Net weight/gross weight	43.05 kg / 65.4 kg	
Wall mounting holes	400mm(H)×600mm(W)	
Installation method	Through the wall mounting holes (screw size: M8)	
Housing material	Aluminum profile / plastic	
Environmental protection standard	All components and packing materials comply with the international environmental protection standards	
OPERATING CONDITION	Temperature	32°F to 104°F (0°C to 40°C)
	Humidity	10% ~ 90% RH non-condensing
	Altitude	0 meter to +2000 meters above sae level

Model	CDE8600	
Physical resolution	3840×2160(pixels)	
Pixel pitch	0.494mm×0.494mm	
Response time	8ms	
Brightness	400cd/m ²	
Contrast	1200:1	
Viewing angle	178°/178°	
Chroma	1.07B	
System functions	Contrast, brightness, definition, color saturation, color tone, signal switching, color temperature adjustment, refresh rate switching and running state display	
Control mode	Key control/infrared remote control/RS232 control	
Input voltage	AC 100-240V	
Power consumption	540 W (Max, with SDM & OPS)	
Dimension (without packing)	1962mm*1133mm*102.3mm	
Net weight/gross weight	55.6kg/77.1kg	
Wall mounting holes	400mm(H)×700mm(W)	
Installation method	Through the wall mounting holes (screw size: M8)	
Housing material	Aluminum profile / plastic	
Environmental protection standard	All components and packing materials comply with the international environmental protection standards	
OPERATING CONDITION	Temperature	32°F to 104°F (0°C to 40°C)
	Humidity	20% ~ 80% RH non-condensing
	Altitude	0 meter to +5000 meters above sae level

7.2 VGA Display Mode

NO.	Mode	Resolution	Refresh Rate
1	VGA	640×480	60Hz
2	SVGA	800×600	60Hz
3	XGA	1024×768	60Hz
4		1280×720	60Hz
5	WXGA	1360×768	60Hz
6	WUXGA	1920×1080	60Hz

7.3 HDMI Mode

Resolution	Hz
640x480	@60Hz
800x600	@60Hz
1024x768	@60Hz
1280x1024	@60Hz
1440x900	@60Hz
1920x1080	@60Hz
720x480i	@59.94Hz/60Hz
640x480p	@59.94Hz/60Hz
720x480p	@59.94Hz/60Hz
720x576i	@50Hz
720x576p	@50Hz
1280x720p	@50Hz/60Hz
1920x1080i	@50Hz/60Hz
1920x1080p	@23.97Hz/24Hz29.97Hz/30Hz/50Hz/60Hz
3840x2160p	@23.97Hz/24Hz29.97Hz/25Hz/30Hz/50Hz*/60Hz*

Note: Only HDMI 4 support up to 3840x2160@50Hz/60Hz

8. RS-232 Protocol

8.1 Introduction

This document describes the hardware interface spec and software protocols of RS232 interface communication between ViewSonic Commercial TV / Digital Signage and PC or other control unit with RS232 protocol.

The protocol contains three sections command:

- Set-Function
- Get-Function
- Remote control pass-through mode

※ In the document below, “PC” represents all the control units that can send or receive the RS232 protocol command.

8.2 Description

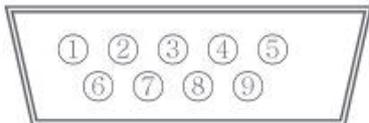
8.2.1 Hardware specification

Viewsonic TV communication port on the rear side:

(1) Connector type: DSUB 9-Pin Male

(2) Pin Assignment

Male DSUB 9-Pin
(outside view)



Pin #	Signal	Remark
1	NC	
2	RXD	Input to Commercial TV or DS
3	TXD	Output from Commercial TV or DS
4	NC	
5	GND	
6	NC	
7	NC	
8	NC	
9	NC	
frame	GND	

* Use of crossover (null modem) cable required for use with PC

[Special case]
3.5mm barrel connector

Pin #	Signal	Remark
Tip	TXD	Output from Commercial TV or DS
Ring	RXD	Input to Commercial TV or DS
Sleeve	GND	

8.2.2 Communication Setting

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

8.2.3 Command Message Reference

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

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

8.3 Protocol

8.3.1 Set-Function Listing

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

Set-Function description:

Length: Total Byte of Message excluding "CR".

TV/DS ID Identification for each of TV/DS (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 TV/DS ID can be set via the OSD menu for each TV/DS set.

Command Type Identify command type,
"s" (0x73h): Set Command
"+" (0x2Bh): Valid command Reply
"- " (0x2Dh): Invalid command Reply

Command: Function command code: One byte ASCII code.

Value[1~3]: Three bytes ASCII that defines the value.

CR 0x0D

Set-Function format

Send: (Command Type="s")

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

NOTE:

For VT2405LED-1 and VT3205LED, the set "Power on" command is the exception.

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

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

NOTE:

1. The reply for "Power on" command is the exception for VT2405LED-1 and VT3205LED. It's 0x322B0D (2+<CR>).
2. When PC applies command to all displays (ID=99), only the #1 set needs to reply by the name of ID=1.

Example1: Set Brightness as 76 for TV-02 and this command is valid

Send (Hex Format)

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

Reply (Hex Format)

Name	Length	ID	Command Type	CR
Hex	<u>0x34</u>	<u>0x30</u> <u>0x32</u>	<u>0x2B</u>	<u>0x0D</u>

Example2: Set Brightness as 176 for TV-02 and this command is NOT valid

Send (Hex Format)

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Hex	<u>0x38</u>	<u>0x30</u> <u>0x32</u>	<u>0x73</u>	<u>0x24</u>	<u>0x31</u>	<u>0x37</u>	<u>0x36</u>	<u>0x0D</u>

Reply (Hex Format)

Name	Length	ID	Command Type	CR
Hex	<u>0x34</u>	<u>0x30</u> <u>0x32</u>	<u>0x2D</u>	<u>0x0D</u>

Set-function table

Set Function	Length	ID	Command Type (ASCII)	Command		Value Range (Three ASCII bytes)	Comments
				Code (ASCII)	Code (Hex)		
Power on/ off (standby)	8		s	!	21	000: STBY 001: ON	Exclude VT2405-1, and VT3205
Input Select	8		s	"	22	000: TV 001: AV 003: YPbPr 004: HDMI 014: HDMI2 024: HDMI3 034: HDMI4 006: VGA1 007: OPS 017: SDM 00A: MAIN	1. No need for USB 2. For the case of two more same sources, the 2nd digital is used to indicate the extension. 3. Exclude VT2405-1, and VT3205
Contrast	8		s	#	23	000 ~ 100	
Brightness	8		s	\$	24	000 ~ 100	
Sharpness	8		s	%	25	000 ~ 100	
Color mode	8		s	)	29	000: Normal 001: Warm 002: Cold	
Sound	8		s	-	2D	000: SRS Off 001: SRS On	(for TV)
Bass	8		s	.	2E	000 ~ 100	(for TV)
Treble	8		s	/	2F	000 ~ 100	(for TV)
Balance	8		s	0	30	000 ~ 100	(for TV) Sets Balance position
Picture Size	8		s	1	31	000: FULL 001: NORMAL 002: REAL	(for DS)
OSD language	8		s	2	32	000: English 001: French 002: Spanish	Extend the value for more supported languages
Power lock	8		s	4	34	000: Unlock 001: Lock	
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	

Menu lock	8		s	>	3E	000: Unlock 001: Lock	
Number	8		s	@	40	000~009	(for TV)
Key Pad	8		s	A	41	000: UP 001: DOWN 002: LEFT 003: RIGHT 004: ENTER 005: INPUT 006: MENU/EXIT	
Remote Control	8		s	B	42	000: Disable 001: Enable	Disable: RCU has no effect on HDTV. Enabled: RCU controls the HDTV. This is the power up default on the HDTV.
Restore default	8		s	~	7E	000	Rests HDTV to factory setting
Date: Year	8		s	V	56	Y17~Y99	Last 2 digits (20)17~(20)99
Date: Month	8		s	V	56	M01~M12	2 digits
Date: Day	8		s	V	56	D01~D31	2 digits
Time: Hour	8		s	W	57	H00~H23	24-hr format. 2 digits.
Time: Min	8		s	W	57	M00~M59	2 digits
Time: Sec	8		s	W	57	S00~S59	2 digits

NOTE:

1. Behavior at lock modes

Lock Mode	Behavior
Button Lock	<ol style="list-style-type: none">1. Lock all buttons on the front panel and RCU, except for "Power".2. All the SET functions should be workable via RS32, even the ones with according hot key in RCU like Mute,...etc.
MENU Lock	<ol style="list-style-type: none">1. Lock "MENU" key of front panel and RCU.2. 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	<ol style="list-style-type: none">1. Lock "POWER" key on the front and RCU.2. The SET_POWER on/off should be workable via RS232, but does not mean the POWER lock will be released under this case.3. Can not be unlocked by reset in OSD setting.4. Will auto AC power-on in power-lock5. 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 15min.
Remote control disable	Lock the RCU keys, but keep the front panel buttons workable.

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")

8.3.2 Get-Function Listing

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

Get-Function description:

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

Get-Function format

Send: (Command Type=“g”)

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

NOTE: Get “Power STBY status” is the exception for VT2405LED-1 and VT3205LED.

Reply: (Command Type=“r” or “-“)

If the Command is valid, Command Type =“r”

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

NOTE: The reply for “Power STBY status” command is the exception for VT2405LED-1 and V3205LED. It’s 0x36 72 6C 30 30 30 0D (6rl000<CR>).

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

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

Example1: Get Brightness from TV-05 and this command is valid.

The Brightness value is 67.

Send (Hex Format)

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

Reply (Hex Format)

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

Example2: Get Brightness from TV-05 , but the Brightness command ID is error and it is NOT in the command table.

Send (Hex Format)

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Hex	<u>0x38</u>	<u>0x30</u> <u>0x35</u>	<u>0x67</u>	<u>0XD3</u>	<u>0x30</u>	<u>0x30</u>	<u>0x30</u>	<u>0x0D</u>

Reply (Hex Format)

Name	Length	ID	Command Type	CR
Hex	<u>0x34</u>	<u>0x30</u> <u>0x35</u>	<u>0x2D</u>	<u>0x0D</u>

Get-Function table

Get Function	Length	ID	Command Type (ASCII)	Command		Response Range (Three ASCII bytes)	Comments
				Code (ASCII)	Code (Hex)		
Get-Contrast	8		g	a	61	000 ~ 100	
Get-Brightness	8		g	b	62	000 ~ 100	
Get-Sharpness	8		g	c	63	000 ~ 100	
Get-Color	8		g	d	64	000 ~ 100	
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~	See Set-function table
Get-Power status: ON/ STBY	8		g	l	6C	001: ON 000: STBY	Exclude VT2405-1, and VT3205
Get-Remote control	8		g	n	6E	000: Disable 001: Enable	Gets RCU mode status
Get-Power lock	8		g	o	6F	000: Unlock 001: Lock	
Get-Button lock	8		g	p	70	000: Unlock 001: Lock	
Get-Menu lock	8		g	q	71	000: Unlock 001: Lock	
Get-ACK	8		g	z	7A	000	This command is used to test the communication link
Get-Power on/off log	8		g	1	31	000 (See below example)	For specific models only
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
Get-Device name	8		g	4	34	000	
Get-MAC address	8		g	5	35	000 (see below example)	For the model with LAN
Get-RS232 version	8		g	6	36	000 (see below example)	Version 0.0.1~9.9.9

NOTE:**1. Time log data is replied as 6 sequential strings in following order.**

#1: Previous power-on date (month/ day)

#2: Previous power-on time (hour/ min)

#3: Previous power-off date (month/ day)

#4: Previous power-off time (hour/ min)

#5: Last power-on date (month/day)

#6: Last power-on time (hour/ min)

2. Time log data definition

Value 1	Value 2	Value 3
On/ Off indicator	Month code	Day code
0: Off 1: On	Hour code	Minute code

Hex code (in hex) = Original data (in dec) + 20

Date & Time	Code (ASCII)	Code (Hex)	Date & Time	Code (ASCII)	Code (Hex)	Date & Time	Code (ASCII)	Code (Hex)	Date & Time	Code (ASCII)	Code (Hex)
0	space	20	16	6	36	32	R	52	48	h	68
1	!	21	17	7	37	33	S	53	49	i	69
2	“	22	18	8	38	34	T	54	50	p	70
3	#	23	19	9	39	35	U	55	51	q	71
4	\$	24	20	@	40	36	V	56	52	r	72
5	%	25	21	A	41	37	W	57	53	s	73
6	&	26	22	B	42	38	X	58	54	t	74
7	'	27	23	C	43	39	Y	59	55	u	75
8	(	28	24	D	44	40	`	60	56	v	76
9	)	29	25	E	45	41	a	61	57	w	77
10	0	30	26	F	46	42	b	62	58	x	78
11	1	31	27	G	47	43	c	63	59	y	79
12	2	32	28	H	48	44	d	64			
13	3	33	29	I	49	45	e	65			
14	4	34	30	P	50	46	f	66			
15	5	35	31	Q	51	47	g	67			

Month: 1~12

Day: 1~31

Hour: 00~23

Min: 00~59

3. Time log data example

Assumed the power-on/off record of display#01 as below

2014-8/31 08:00 On

2014-8/31 22:00 Off

2014-9/1 10:30 On

2014-9/1 11:00 To send "GET-Time log" command

Send: 0x 38 30 31 67 31 30 30 30 0D

Reply:

#1 0x 38 30 31 72 3101 08 31 0D (On 8/31)

#2 0x 38 30 31 72 3101 08 00 0D (On 08:00)

#3 0x 38 30 31 72 3100 08 31 0D (Off 8/31)

#4 0x 38 30 31 72 3100 22 00 0D (Off 22:00)

#5 0x 38 30 31 72 3101 09 01 0D (On 9/1)

#6 0x 38 30 31 72 3101 10 30 0D (On 10:30)

4. Get Date example

Assumed the current date of display#01 as below

Date: 2017-3/15

Send: x 38 30 31 67 32 59 30 30 0D (Get Date:Year)

Reply: x 38 30 31 72 32 59 31 37 0D ("Y17")

Send: x 38 30 31 67 32 4D 30 30 0D (Get Date:Month)

Reply: x 38 30 31 72 32 4D 30 33 0D ("M03")

Send: x 38 30 31 67 32 44 30 30 0D (Get Date:Day)

Reply: x 38 30 31 72 32 44 31 35 0D ("D15")

5. Get Time example

Assumed the current time of display#01 as below

Time: 16:27:59

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

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

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

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

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

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

6. Get Device Name example

Assumed the device name is CDE-5500

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

Reply:

#1 x 38 30 31 72 34 43 44 45 0D ("C" "D" "E")

#2 x 38 30 31 72 34 2D 35 35 0D ("- "5" "5")

#3 x 38 30 31 72 34 30 30 00 0D ("0" "0" "(NULL)")

#4 x 38 30 31 72 34 00 00 00 0D ("(NULL)" "(NULL)" "(NULL)")

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

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

Reply:

#1 x 38 30 31 72 34 4E 4D 50 0D ("N" "M" "P")

#2 x 38 30 31 72 34 2D 33 30 0D ("- "3" "0")

#3 x 38 30 31 72 34 32 20 23 0D ("2" "(SPACE)" "#")

#4 x 38 30 31 72 34 31 00 00 0D ("1" "(NULL)" "(NULL)")

7. Get MAC address example

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

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

Reply:

#1 x 38 30 31 72 35 00 11 22 0D ("00" "11" "22")

#2 x 38 30 31 72 35 aa bb cc 0D ("aa" "bb" "cc")

8. Get RS232 version example

Assumed the version is 3.0.1

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

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

9. LAN Control

- a. Please have the LAN port (RJ45) connected with appropriate setting
- b. Follow the same command set as RS232
- c. This function is available for the host under the same intranet only, but not internet.
- d. The LAN control through slot-in PC is not supported

Other Information

Customer Support

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

NOTE: You will need the product serial number.

Country/Region	Website	T= Telephone C = CHAT ONLINE	Email
Australia New Zealand	www.viewsonic.com.au	AUS= 1800 880 818 NZ= 0800 008 822	service@au.viewsonic.com
Canada	www.viewsonic.com	T= 1-866-463-4775	service.ca@viewsonic.com
Europe	www.viewsoniceurope.com	http://www.viewsoniceurope.com/eu/support/call-desk/	
Hong Kong	www.hk.viewsonic.com	T= 852 3102 2900	service@hk.viewsonic.com
India	www.in.viewsonic.com	T= 1800 419 0959	service@in.viewsonic.com
Korea	ap.viewsonic.com/kr/	T= 080 333 2131	service@kr.viewsonic.com
Latin America	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Nexus Hightech Solutions, Cincinnati #40 Desp. 1 Col. De los Deportes Mexico D.F. Tel: 55) 6547-6454 55)6547-6484 Other places please refer to http://www.viewsonic.com/la/soporte/servicio-tecnico#mexico			
Macau	www.hk.viewsonic.com	T= 853-2840-3687	service@hk.viewsonic.com
Middle East	ap.viewsonic.com/me/	Contact your reseller	service@ap.viewsonic.com
Puerto Rico & Virgin Islands	www.viewsonic.com	T= 1-800-688-6688 (English) C = http://www.viewsonic.com/la/soporte/servicio-tecnico	service.us@viewsonic.com soporte@viewsonic.com
Singapore/ Malaysia/ Thailand	www.ap.viewsonic.com	T= 65 6461 6044	service@sg.viewsonic.com
South Africa	ap.viewsonic.com/za/	Contact your reseller	service@ap.viewsonic.com
United States	www.viewsonic.com	T= 1-800-688-6688	service.us@viewsonic.com

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.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
 - a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - b. Any damage of the product due to shipment.
 - c. Removal or installation of the product.
 - d. Causes external to the product, such as electrical power fluctuations or failure.
 - e. Use of supplies or parts not meeting ViewSonic's specifications.
 - f. Normal wear and tear.
 - g. Any other cause which does not relate to a product defect.
3. 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.
4. Removal, installation, one way transportation, insurance, and set-up service charges.

How to get service:

1. For information about receiving service under warranty, contact ViewSonic Customer Support (Please refer to Customer Support page). You will need to provide your product's serial number.
2. 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.
3. Take or ship the product freight prepaid in the original container to an authorized ViewSonic service center or ViewSonic.
4. For additional information or the name of the nearest ViewSonic service center, contact ViewSonic.

Limitation of implied warranties:

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

Exclusion of damages:

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

1. 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.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.
4. Repair or attempted repair by anyone not authorized by ViewSonic.

Effect of state law:

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

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

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

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

For users in Europe and Russia, full details of warranty provided can be found in www.viewsoniceurope.com 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 does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
 - a. 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.
 - b. Any damage of the product due to shipment.
 - c. Causes external to the product, such as electrical power fluctuations or failure.
 - d. Use of supplies or parts not meeting ViewSonic's specifications.
 - e. Normal wear and tear.
 - f. Any other cause which does not relate to a product defect.
3. 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.
4. 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 Support 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? _____

1. 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.
2. Take or ship the product in the original container packaging to an authorized ViewSonic service center.
3. Round trip transportation costs for in-warranty products will be paid by ViewSonic.

Limitation of implied warranties:

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

Exclusion of damages:

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

1. 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.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.
4. 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	
Hermosillo: Distribuciones y Servicios Computacionales SA de CV. Calle Juarez 284 local 2 Col. Bugambillas C.P: 83140 Tel: 01-66-22-14-9005 E-Mail: disc2@hmo.megared.net.mx	Villahermosa: Compumantenimientos 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
Puebla, Pue. (Matriz): RENTA Y DATOS, S.A. DE C.V. Domicilio: 29 SUR 721 COL. LA PAZ 72160 PUEBLA, PUE. Tel: 01(52).222.891.55.77 CON 10 LINEAS E-Mail: datos@puebla.megared.net.mx	Veracruz, Ver.: CONEXION Y DESARROLLO, S.A DE C.V. Av. Americas # 419 ENTRE PINZÓN Y ALVARADO Fracc. Reforma C.P. 91919 Tel: 01-22-91-00-31-67 E-Mail: gacosta@qplus.com.mx
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