

## CDE6510 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 cu idadosamente las instrucciones en este manual"

Model No. VS17061

# 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.

## **FCC Statement**

Note: 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)

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.

## **CE Conformity for European Countries**

C E 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.



## **Declaration of RoHS2 Compliance**

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

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0,1%	< 0,1%
Mercury (Hg)	0,1%	< 0,1%
Cadmium (Cd)	0,01%	< 0,01%
Hexavalent Chromium (Cr6+)	0,1%	< 0,1%
Polybrominated biphenyls (PBB)	0,1%	< 0,1%
Polybrominated diphenyl ethers (PBDE)	0,1%	< 0,1%

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. piezoelectronic devices, or in a glass or ceramic matrix compound.

#### Warning:

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.

## **Safety Precautions**

FOR OPTIMUM PERFORMANCE, PLEASE NOTE THE FOLLOWING WHEN SETTING UP AND USING THE LCD COLOR MONITOR:

- DO NOT REMOVE MONITOR BACK COVER. There are no user serviceable parts inside and opening or removing covers may expose you to dangerous shock hazards or other risks. Refer all servicing to qualified service personnel.
- Do not spill any liquids into the cabinet or use your monitor near water.
- Do not insert objects of any kind into the cabinet slots, as they may touch dangerous voltage points, which can be harmful or fatal or may cause electric shock, fire or equipment failure.
- Do not place any heavy objects on the power cord. Damage to the cord may cause shock or fire.
- Do not place this product on a sloping or unstable cart, stand or table, as the monitor may fall, causing serious damage to the monitor.
- Do not place any objects onto the monitor and do not use the monitor outdoors.
- The inside of the fluorescent tube located within the LCD monitor contains mercury. Please follow the laws or rules of your municipality to dispose of the tube properly.
- Do not bend power cord.
- Do not use monitor in high temperature, humid, dusty, or oily areas.
- If monitor or glass is broken, do not come in contact with the liquid crystal and handle with care.
- Allow adequate ventilation around the monitor, so that heat can properly dissipate. Do not block ventilated openings or place the monitor near a radiator or other heat sources. Do not put anything on top of the monitor.
- The power cable connector is the primary means of detaching the system from the power supply. The monitor should be installed close to a power outlet, which is easily accessible.
- Handle with care when transporting. Save packaging for transporting.
- Please clean the holes of back cabinet to reject dirt and dust at least once a year because of set reliability.
- If using the cooling fan continuously, it's recommended to wipe holes a minimum of once a month.
- When installing the remote control batteries;
  - Align the batteries according to the (+) and (-) indications inside the case.
  - Align the (-) indication of the battery first inside the case.
- Usage of other than specified head- or earphones can result in hearing loss due to excessive sound pressures.

### CAUTION:

Immediately unplug your monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the monitor.
- If the monitor has been exposed to rain or water.
- If the monitor has been dropped or the cabinet damaged.
- If the monitor does not operate normally by following operating instructions.

## **Recommended Use**

## CAUTION:

- For optimum performance, allow 20 minutes for warm-up.
- Rest your eyes periodically by focusing on an object at least 5 feet away. Blink often.
- Position the monitor at a 90° angle to windows and other light sources to minimize glare and reflections.
- Clean the LCD monitor surface with a lint-free, nonabrasive cloth. Avoid using any cleaning solution or glass cleaner!
- Adjust the monitor's brightness, contrast and sharpness controls to enhance readability.
- Avoid displaying fixed patterns on the monitor for long periods of time to avoid image persistence (after image effects).
- Get regular eye checkups.

## Ergonomics

To realize the maximum ergonomic benefits, we recommend the following:

- Use the preset Size and Position controls with standard signals.
- Use the preset Color Setting.
- Use non-interlaced signals.
- Do not use primary color blue on a dark background, as it is difficult to see and may produce eye fatigue due to insufficient contrast.

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## **Product Registration**

To meet your future needs, and to receive any additional product information as it becomes available, please register your product on the Internet at: www.viewsonic.com.

The ViewSonic<sup>®</sup> Wizard CD-ROM also provides an opportunity for you to print the registration form,

which you may mail or fax to ViewSonic.

## For Your Records

Product Name:	CDE6510
	ViewSonic Commercial Display
Model Number:	VS17061
Document Number:	CDE6510_UG_ENG Rev. 1A 12-19-17
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. Unpacking and Installation

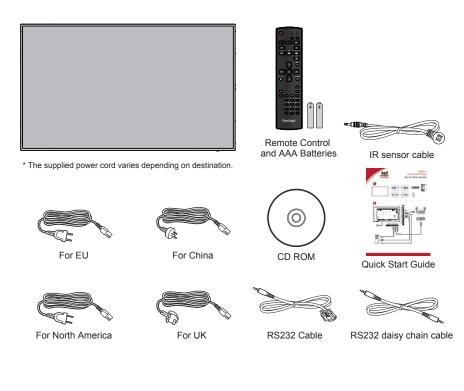
### 1.1. Unpacking

- This product is packed in a carton, together with the standard accessories.
- · Any other optional accessories will be packed separately.
- Due to the size and weight of this display it is recommended for two people to move it.
- After opening the carton, ensure that the contents are complete and in good condition.

### 1.2. Package Contents

Please verify that you received the following items with your package content:

- LCD display
- CD ROM
- Remote control with AAA
   batteries
- Quick Start Guide
- Power cord (1.8 m)
- RS232 cable (1.8 m)
- RS232 daisy chain cable (2.5mm-2.5mm)
- IR sensor cable



#### NOTES:

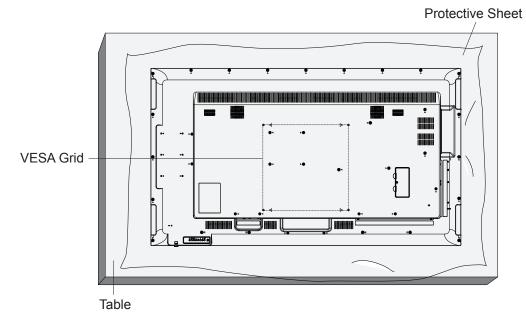
- For all other regions, apply a power cord that conforms to the AC voltage of the power socket and has been approved by and complies with the safety regulations of the particular country.
- Keep the package box and packing material for shipping the display.

### 1.3. Installation Notes

- Due to the high power consumption, always use the plug exclusively designed for this product. If an extended line is required, please consult your service agent.
- The product should be installed on a flat surface to avoid tipping. The distance between the back of the product and the wall should be maintained for proper ventilation. Avoid installing the product in the kitchen, bathroom or any other places with high humidity so as not to shorten the service life of the electronic components.
- The product can normally operate only under 3000 m in altitude. In installations at altitudes above 3000 m, some abnormalities may be experienced.

### 1.4. Mounting on a Wall

To mount this display to a wall, you will have to obtain a standard wall-mounting kit. We recommend using a mounting interface that complies with UL1678 standard in North America.



 Lay a protective sheet on a table, which was wrapped around the display when it was packaged, beneath the screen surface so as not to scratch the screen face.

- 2. Ensure you have all accessories for mounting this display (wall mount, ceiling mount, table stand, etc)
- 3. Follow the instructions that come with the base mounting kit. Failure to follow correct mounting procedures could result in damage to the equipment or injury to the user or installer. Product warranty does not cover damage caused by improper installation.
- 4. For the wall-mounting kit, use M6 mounting screws (having a length 10 mm longer than the thickness of the mounting bracket) and tighten them securely.
- Unit without base weight= 24.8 Kg. The equipment and its associated mounting means still remain secure during the test. For use only with UL Listed Wall Mount Bracket with minimum weight/load: 24.8 Kg.
- 6. Portrait is not allowed.

#### 1.4.1. VESA Grid

Model	Vesa Grid
CDE6510	400(H) x 400(V)mm

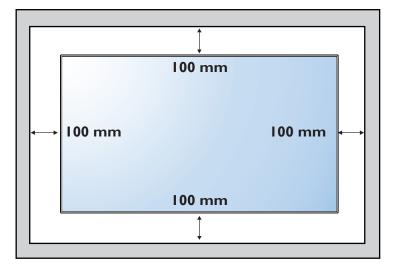
#### Caution:

To prevent the display from falling:

- For wall or ceiling installation, we recommend installing the display with metal brackets which are commercially available. For detailed installation instructions, refer to the guide received with the respective bracket.
- To lessen the probability of injury and damage resulting from fall of the display in case of earthquake or other natural disaster, be sure to consult the bracket manufacturer for installation location.

### Ventilation Requirements for enclosure locating

To allow heat to disperse, leave space between surrounding objects as shown in the diagram below.

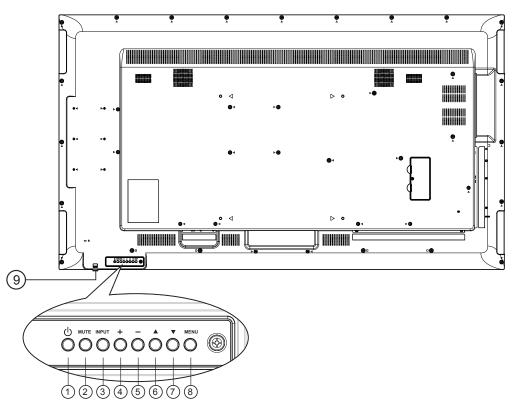


#### NOTES:

When installing the display on a wall, proper installation. We accept no liability for installations not performed by a professional technician.

## 2. Parts and Functions

### 2.1. Control Panel



#### ① [()] button

Use this button to turn the display on or put the display to standby.

#### 2 [MUTE] button

Switch the audio mute ON/OFF.

③ [INPUT] button

Choose the input source.

#### ④ [+] button

- Increase the volume
- Enter into submenu while OSD menu is on

#### 5 [—] button

- Decrease the volume
- Back to previous menu while OSD menu is on

#### 6 [A] button

- Move the highlight bar up to adjust the selected item while OSD menu is on
- Increase the adjustment while adjust value.

#### ⑦ [▼] button

- Move the highlight bar down to adjust the selected item while OSD menu is on.
- Decrease the adjustment while adjust value.

#### (8) [MENU] button

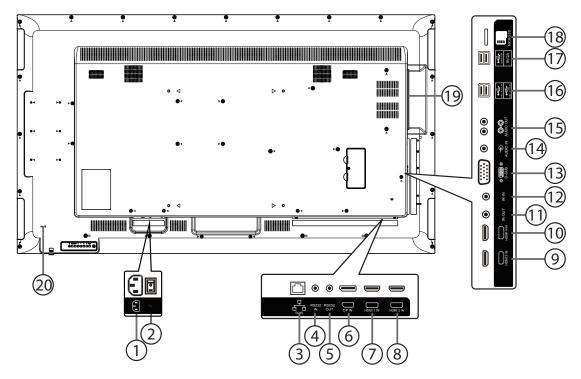
Return to previous menu while OSD menu is on, or to activate the OSD menu when OSD menu is off.

## (9) Remote control sensor and power status indicator

- Receives command signals from the remote control.
- Indicates the operating status of the display without OPS:
  - Lights green when the display is turned on
  - Lights red when the display is in standby mode
  - When {SCHEDULE} is enabled, the light blinks green and red
  - If the light blinks red, it indicates that a failure has been detected
  - Lights off when the main power of the display is turned off

\* Using IR sensor cable for better remote control performance. (Please refer to the instructions of 3.5)

### 2.2. Input/Output Terminals



#### 1 AC IN

AC power input from the wall outlet.

#### **② MAIN POWER SWITCH**

Switch the main power on/off.

3 RJ-45

LAN control function for the use of remote control signal from control center.

#### 4 RS232 IN / 5 RS232 OUT

RS232C network output / input for the loop-through function.

#### 6 DisplayPort IN

DisplayPort video input.

#### 7 HDMI1 IN / 8 HDMI2 IN / 9 HDMI3 IN /

#### 10 HDMI4 IN

HDMI video/audio input.

#### 11 IR OUT / 12 IR IN

IR signal input / output for the loop-through function. **NOTES:** 

- This display's remote control sensor will stop working if the jack [**IR IN**] is connected.
- To remotely control your A/V device via this display, refer to page 14 for or IR Pass Through connection.

#### (13) VGA IN (D-Sub)

VGA video input.

#### 14 AUDIO IN

Audio input for VGA source (3.5mm stereo phone).

#### 15 AUDIO OUT

Audio output to external AV device.

(6) USB PORT Connect your USB storage device

#### 17 USB PORT A



(B) MICRO SD CARD Connect your MICRO SD CARD.

## (19) OPS SLOT

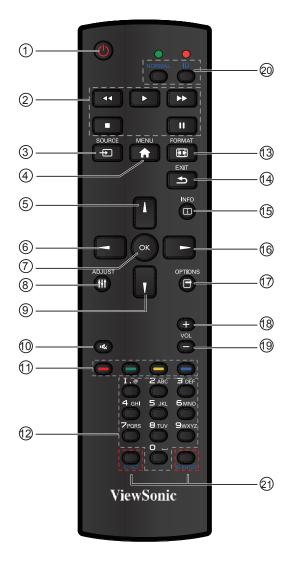
Slot for installing the optional OPS module.

#### **20 SECURITY LOCK**

Used for security and theft prevention.

### 2.3. Remote Control

#### 2.3.1. General functions



#### () [POWER] button

Press to switch on the display from standby mode. Press again to turn it off and back into standby mode.

#### 2 [PLAY] button

Control playback of media files (for Media Input only).

#### ③ [- ► SOURCE] button

Press to toggle Video Source Menu. Press [▲] or [▼] button to select one of the video sources among Displayport, VGA, HDMI1, HDMI2, HDMI3, HDMI4, Media Player, Browser or PDF Player. Press [OK] button.

#### (4) [MENU] button

Press to turn the OSD menu on/off.

#### ⑤ [▲] button

Press to move the selection up in OSD menu.

#### 6 [**4**] button

Press to decrease the value in OSD menu.

#### 7 [OK] button

Press to activate the setting inside the OSD menu.

#### (8) [ADJUST] button

Press to run the Auto Adjust function.

- NOTE: This button is functional for VGA input only.
- Image: Section Section Comparison of the selection of
- I MUTE button
   Press to turn the mute function on/off.
- (1) COLOR buttons Choose tasks or options.(for Media Input only).
- (2) [NUMERIC] buttons Enter text for network setting.
- (13) Format button

Press to switch screen aspect ratio.

- [] [EXIT] buttonPress to turn back to the previous OSD menu.
- (15) [INFO] button Press to turn on/off the information OSD displayed on the upper right corner of the screen.
- (6 **b**] button Press to increase the value in OSD menu.
- (17) [OPTION] button

Access currently available options, picture and sound menus (for Media Input only).

(18) [+] Volume up button

Press to increase the audio output level.

(19) [-] Volume down button

Press to decrease the audio output level.

(2) [ID SET] button
 If a single large- screen matrix (video wall) is created, set ID key to control each dispaly.

#### ID Remote Control:

You can set the remote control ID when you want to use this remote control on one of several different displays. Press [**ID**] button. The red LED blinks twice.

 Press [ID SET] button for more than 1 second to enter the ID ode. The red LED lights up.
 Press the [ID SET] button again will exit the ID Mode. The red LED lights off.
 Press the digit number [0] ~ [9] to select the display you want to control.
 For example: press [0] and [1] for display No.1, press [1] and [1] for display No. 11.
 The numbers available are from [01] ~[255].

- Not pressing any button within 10 seconds will exit the ID Mode.
- 3. If an error pressing of buttons other than the digits occurred, wait 1 second after the red LED lights off and then lights up again, then press the correct digits again.
- 4. Press [**ID ENTER**] button to confirm. The red LED blinks twice and then lights off.

#### NOTE:

 Press [NORMAL] button. The green LED blinks twice, indicating the display is in normal operation. It is necessary to set up the ID number for each display before selecting its ID number.

#### 2.3.2. Inserting batteries in the remote control

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

To install or replace batteries:

- 1. Press and then slide the cover to open it.
- 2. Align the batteries according to the (+) and (–) indications inside the battery compartment.
- 3. Replace the cover.

#### Caution:

The incorrect use of batteries can result in leaks or bursting. Be sure to follow these instructions:

- Place "AAA" batteries matching the (+) and (–) signs on each battery to the (+) and (–) signs of the battery compartment.
- Do not mix battery types.
- Do not combine new batteries with used ones. It causes shorter life or leakage of batteries.
- Remove the dead batteries immediately to prevent them from liquid leaking in the battery compartment. Don't touch exposed battery acid, as it can damage your skin.

**NOTE**: If you do not intend to use the remote control for a long period, remove the batteries.

#### 2.3.3. Handling the remote control

- Do not subject to strong shock.
- Do not allow water or other liquid to splash the remote control. If the remote control gets wet, wipe it dry immediately.
- Avoid exposure to heat and steam.
- Other than to install the batteries, do not open the remote control.

#### 2.3.4. Operating range of the remote control

Point the front of the remote control toward this display's remote control sensor when pressing a button.

Use the remote control within a distance of less than 5m/16 ft from this display's sensor, and a horizontal and vertical angle of less than 30 degrees.

**NOTE**: The remote control may not function properly when the remote control sensor on this display is under direct sunlight or strong illumination, or when there is an obstacle in the path of signal transmission.



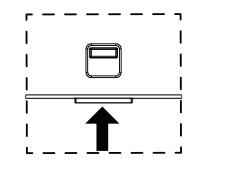


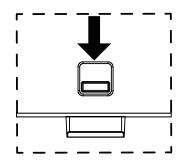


30

### 2.4. Using of Remote sensor and power indicator

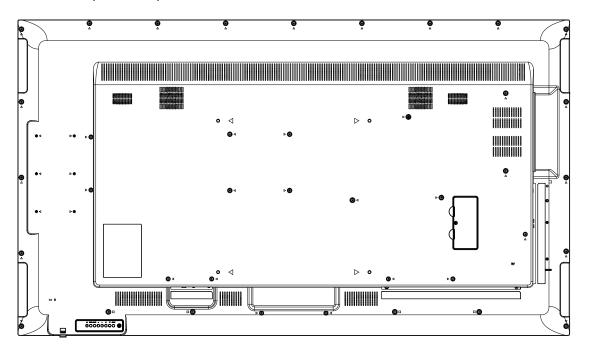
- 1. Push down the lens to have better remote control performance and easy to observe the light information of power status..
- 2. Push up the lens before mounting the display for video wall application.
- 3. Pull/Push the lens until hearing the click sound.





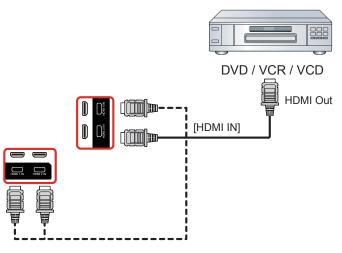
Push up to collapse the lens

Push down to extend the lens



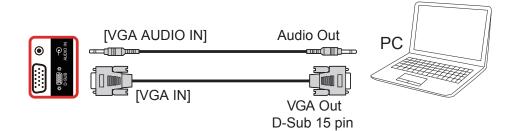
## 3. Connecting External Equipment

- 3.1. Connecting External Equipment (DVD/VCR/VCD)
- 3.1.1. Using HDMI video input

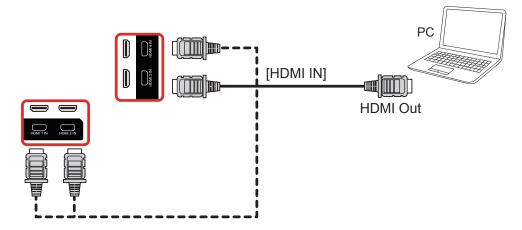


## 3.2. Connecting a PC

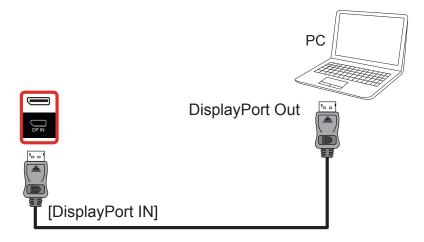
## 3.2.1. Using VGA input



#### 3.2.2. Using HDMI input

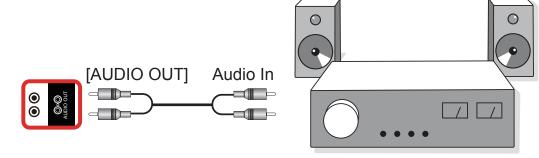


3.2.3. Using DisplayPort input



3.3. Connecting Audio Equipment

#### 3.3.1. Connecting an external audio device



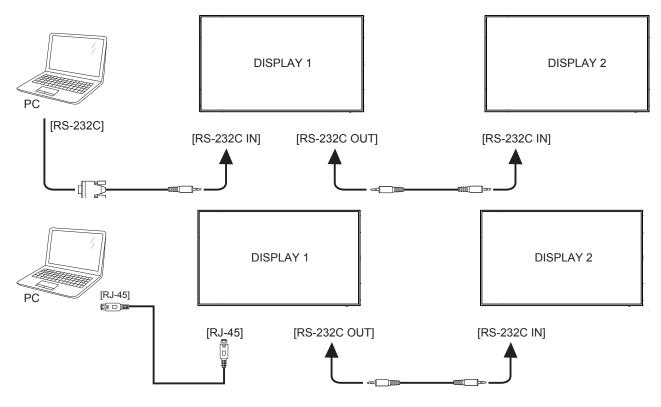
Stereo Amplifier

## 3.4. Connecting Multiple Displays in a Daisy-chain Configuration

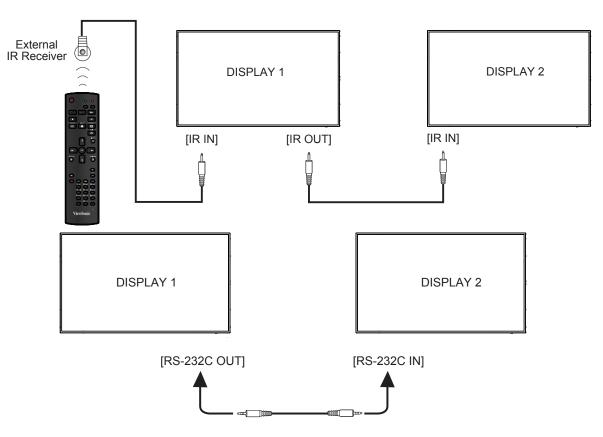
You can interconnect multiple displays to create a daisy-chain configuration for applications such as a menu board.

#### 3.4.1. Display control connection

Connect the [RS232C OUT] connector of DISPLAY 1 to the [RS232C IN] connector of DISPLAY 2.



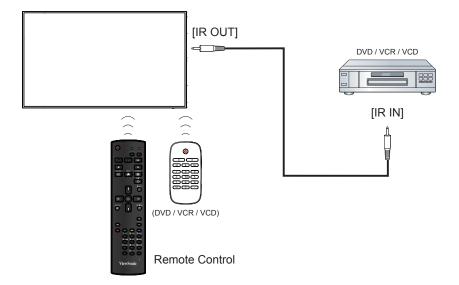
## 3.5. IR Pass-through Connection



#### NOTE:

- 1. This display's remote control sensor will stop working if the [IR IN] is connected.
- 2. IR loop through connection can suppor t up to 9 displays.
- 3. IR in daisy chain via RS232 connection can suppor t up to 9 displays.

## 3.6. IR Pass-through Connection



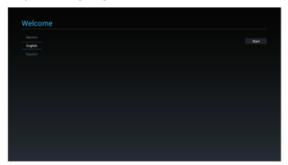
## 4. Operation

**NOTE**: The control button described in this section is mainly on the remote control unless specified otherwise.

### 4.1. Start-up and initial Setting

#### 4.1.1. Welcome

Select your language and tap "Start".



#### 4.1.2. Network Setting

Tape "Next" button to next page and it will show. 1. Connection Type : DHCP / Static IP

- 2. IP Address
- 3. Netmask
- 4. DNS Address
- 5. Gateway

You also can tape "Skip" to configure later

Network Setting	
Please select network type:	

#### 4.1.3. Signage Display Settings

User can import the setting file from SD, USB or manual setting. User also can tape "Skip".

Note: The setting file should be put on viewsonic folder in SD or USB and the file name is settings. db.

Signage Display Settings		
Please Select The Way to Setup:		
Import Signage Display Settings from SD		
Import Signage Display Settings from USB		
Manual Setup		

#### 4.1.4. Setup Complete

The initial settings are completed. Press "Finish" and display will reboot automatically.



## 4.2. Watch the Connected Video Source

- 1. Press SOURCE button.
- Press ▲ or ▼ button to select a device, then press OK button.

Congratulations!			
Import data complete!			
Please press Finish button to r	eboot system.		

### 4.3. Change Picture Format

You can change the picture format to suit the video source. Each video source has its available picture formats.

The available picture formats depend on the video source:

- 1. Press I FORMAT button to choose a picture format.
- PC mode: {Full} / {4:3} / {Real} / {21:9}/ {Custom}.
- Video mode: {Full} / {4:3} / {Real} / {21:9}/ {Custom}

### 4.4. Media Player

You can play videos, photos, and music on your display from:

• USB Multimedia Player for Scheduled Playback of Videos, Photos and Music.

• A USB device connected to this display. Media Player page has three items: {**Play**},

- {Compose} and {Settings}.
  - {**Play**} : select playlist to play.
  - {Compose}: edit playlist.
  - {**Settings**}: setting play properties.



 Select {**Play**} on this page, first you should choose one playlist to play between FILE 1 and FILE 7. The pencil icon means the playlist is non-empty.

	Playlist	
🗸 List 1		
List 2		
List 3		
List 4		
List 5		
List 6		
List 7		
		ViewSonic

 Select {Compose} on this page, first you should choose one playlist to edit between FILE 1 and FILE 7. The pencil icon means the playlist is non-empty.



A. If an empty playlist is chosen, the app will guide you to select the media source.

All media files should be placed in / viewsonic / of root directory.

For example,

- videos in /root/viewsonic/video/
- photos in /root/ viewsonic /photo/
- music in /root/ viewsonic /music/



B. You could edit or delete a non-empty playlist, just choose the desired playlist which is with pencil icon.



C. Once you start to edit a playlist, you will see below screen.
Source - files in storage.
Playlist – files in playlist.
There are 4 icons which map to the keys of remote controller.
Option key – launch slidebar
Play key – play media file.
Info key – show media info.
Ok key – select/unselect file.

In the slidebar, it helps you to do the following:

- select all : select all storage files.
- delete all : delete all playlist files.
- add/remove : update playlist from source.
- sort : sort playlist.
- save/abort : save or abort playlist.
- back : return.



D. if you choose "Sort" in the slidebar, you can change the order of files one by one.



E. Press info key after you choose desired file, you will get the detail information.



- F. Press play key after you choose desired file, you will plays the media file directly.
- G. If you make a playlist with all images files, before saving, the app will ask you if you want to have background music while slideshow playing.



- Select {Settings} on this page, this page has three parts, {Repeat Mode}, {Slideshow Effect} and {Effect Duration}.
  - {Repeat Mode} : play mode.
  - {Slideshow Effect} : photo slideshow effect.
  - {Effect Duration} : photo effect duration.



#### 4.5. Web Browser

You can save the web link and easy to browse the web site.

Browser page has one item: {**Settings**}. Press {**Settings**} then enter next page.



1. Users can choose 1~7. Press any one will show a dialog.



Enter URL and press OK then data will save on List





 Press "Option" then left side will pop up a list Import : Import url list file
 Export : Export url list file
 Delete all : Delete all url record on right side
 Back : left side list will be close.



#### A. Import

Click Import, you can select URL file from Internal, USB storage or SD card.



After URL file selected, URL will show on list.



#### B. Export



Click Export, you can select Internal, USB storage or SD card for export file to.



Dialog shows path file will be saved and file's name. Press "save" button then URLs on list will be saved.

Settings	
1     2       2     3       2     3       2     3       2     3       2     3       2     3       2     3       3     7       3     5       6     7       5     7       5     5       6     7       5     5       6     7       5     5       6     6       6     6	
• Crue Remotes Control Cody	ViewSonic

3. On URL list page, if you select non-empty item, it will show a dialog to ask edit or play url. If press "Edit", it will show edit url dialog, if press "Play", it will show web page of item's url.



### 4.6. PDF Reader

You can play PDF file on your display from internal, USB or SD card.

This page has three items: {**Play**}, {**Compose**} and {**Settings**}.

- {**Play**}: select playlist to play.
- {Compose}: edit playlist.
- {Settings}: setting play properties.



 Select {Play} on this page, first you should choose one playlist to play between FILE 1 and FILE 7. The pencil icon means the playlist is non-empty.



 Select {Compose} on this page, first you should choose one playlist to edit between FILE 1 and FILE 7. The pencil icon means the playlist is non-empty.



A. If an empty playlist is chosen, the app will guide you to select the media source.
 All media files should be placed in /viewsonic/ of root directory.

For example,

pdfs in /root/viewsonic/pdf/



B. You could edit or delete a non-empty playlist, just choose the desired playlist which is with pencil icon.



C. Once you start to edit a playlist, you will see below screen.

Source - files in storage.

Playlist – files in playlist.

There are 4 icons which map to the keys of remote controller.

Option key – launch slidebar

Play key – play media file.

Info key – show media info.

Ok key - select/unselect file.

In the slidebar, it helps you to do the following: - select all : select all storage files.

- delete all : delete all playlist files.
- add/remove : update playlist from source.
- sort : sort playlist.
- save/abort : save or abort playlist.
- back : return.



Select "Sort" in the slidebar, you can change the order of files one by one.



- Select {Settings} on this page, this page has two parts, {Repeat Mode} and {Effect Duration}.
  - {Repeat Mode} : play mode.
  - {Effect Duration} : photo effect duration.



#### 4.7. Custom App

User can set up the application for Customer Source

#### Note:

(1) Only display User Installed app.

(2) Will not show up system pre-install app.

#### 4.7.1. OSD Menu operation:

Press D SOURCE button and select Custom. If set up customer APK, PD will open customer app when switch source to Customer mode. If no set up customer APK, PD will show Black screen when switch source to Customer mode.

#### 4.7.2. Set Custom App

Select custom app from source setting.

1. Entry Signage Display in Admin Mode (Refer section 4.7 & 4.7.3)



2. Select Custom app will show the installed APK. CDE model pre-install the vCastReceiver APK inside.

÷	Signage Display	
	Ceneral settings	
	Signage Display Name P0_1657137e3e6	
	Boot Logo	
	Screenshot	
	Server settings	
	Email Notification	
	FTP	
	SICP Network Port	
	Source settings	
	Media Player	
	Browser	
	PDF Player	
	Custom App	
	Security	
	External Storage SD card/USB External Storage Unlock	

3. Press Select App to show the APK list.

Cust	от Арр
Selec	t App

4. Select vCastReceiver and press Save.

Select App				
1	Select App			
	AiPlay		0	
			-	
	VCastReceiver		۲	
	FORGET	CANCEL	SAVE	

5. vCastReceiver APK name will show on Select App.

6. Exit admin mode and press custom input source. vCastReceiver will run on screen.

## 5. Setting (Admin mode)

Press Menu 1 9 9 8 on remote control to enter admin mode.

## 5.1. Setting

Main items:

- (1) Ethernet
- (2) Signage Display
- (3) System Tools
- (4) Display
- (5) Apps
- (6) Date & time
- (7) Developer options
- (8) About

Network			
$\langle \cdots \rangle$	Ethernet		
Device			
O	Signage Display	4	System Tools
	Display		Apps
System			
	Date & time	>	Developer options
(i)	About		

## 5.2. Ethernet

Enable/Disable to turn on/off Ethernet After enable Ethernet, the settings will show:

- (1) Connection Type (Available connection type: DHCP/Static IP)
  - A. DHCP
  - B. Static IP
  - C. IP Address
  - D. Netmask
  - E. DNS Address
  - F. Gateway
- (2) Mac Address

÷

Ethernet	
Main Switch	
Disable	0
Enable	۲
Ethemet Configuration	
Connection Type	
Mac Address 18:65/71:37:83:e6	
Mac Address 18:6571:37:e3:e6	

## 5.2.1. DHCP

DHCP mode:

- (1) Cannot modify IP Address, Netmask, DNS Address and Gateway.
- (2) If connect successfully, it will display current network configuration.

Dis	ain Switch isable				
En	nable				۲
	hemet Configuration onnection Type HCP	Ethernet Configuration Connection Type @ pacer 0 Static P			
	lac Address 86571:37:e3:e6	# Adress 192.163.101 Netmak 25.552.525.0			
		DNS Address 1922.66.1.1 Gateway 1922.106.1.1			
			DISCARD	SAVE	

### 5.2.2. Static IP

In Static IP mode, user can input IP Address, Netmask, DNS address and Gateway.

### Note:

IP address, netmask, DNS address and gateway address input limitation.

(1)Format:

- I. number 0-9
- II. decimal point "."

Settings			
Network			
$\langle \cdots \rangle$	Ethernet		
Device			
$\odot$	Signage Display	0	System Tools
Ð	Display		Apps
System			
-170	Date & time	>	Developer options
$\overline{i}$	About		

## 5.3. Signage Display

Divide into 4 groups: General Settings / Server Settings / Source Settings / Security

- (1) General Settings
  - A. Signage Display Name
  - B. Boot Logo
  - C. Screenshot
- (2) Server Settings
  - A. Email Notification
  - B. FTP
  - C. SICP Network Port
- (3) Source Settings
  - A. Media Player
  - B. Browser
  - C. PDF Player
  - D. Custom app

(4) Security A. External Storage

Signage Display	
Coneral settings	
Signage Display Name P0_18657137e3e6	
Boot Logo	
Screenshot	
Server settings	
Email Notification	
FTP	
SICP Network Port	
Source settings	
Media Player	
Browser	
PDF Player	
Custom App	
Security	
External Storage SD card/USB External Storage Unlock	0

#### 5.3.1. General Settings

1. Signage Display Name

Set up PD name "PD\_" + Ethernet Mac Address. **Note**:

Input limitation:

- (1) length: Max 36 characters
- (2) format: no limit

÷			
	General settings		
	Signage Display Name PD_18657137e3e6		
	Boot Logo		
	Screenshot		
	Server settings		
	Email Notification		
	FTP	Please enter Signage Display Name	
	SICP Network Port	PD_18657137e3e6	
	Source settings	CANCEL OK	
	Media Player	UNITAL UK	
	Browser		
	PDF Player		
	Custom App		
	Security		
	External Storage SD card/USB External Stora	aye Unikok	

#### 2. Boot Logo

1) Scalar OSD menu to control Android boot logo enable/disable Scalar OSD menu operation

RCU: MENU -> Configuration2 -> Logo -> On/Off/ User.

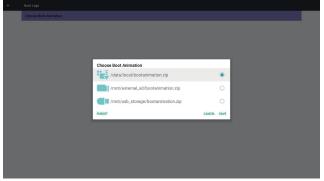
In user mode, user can choose their own boot logo animation file.

#### Note:

- (1) Boot animation file name: bootanimation. zip
- (2) Will pop-up a window for user to select USB and SD card. No priority issue.



3) When boot logo selected, PD will check if there is bootanimation. zip under USB and SD card.



Function introduction: a. Option description /data/local Use customized boot animation file which is copied from SD card or USB /mnt/external\_sd Use boot animations file under SD card

/mnt/usb\_storage

Use boot animations file under USB b. Save

Press save key to save SD card or USB bootanimation.zip to /data/

local and set it as boot logo.

c. Forget

Press Forget key to delete /data/local

bootanimation.zip and not show boot logo.

d. Cancel

Close dialogue w/o changes. Scenario introduction:

Case 1

The user don't settle customized boot logo. PD does not find any bootanimation.zip file under SD and USB.The list will be blank. Save and Forget button will be gray and useless.

÷	Boot Logo			
	Choose Boot Animation			
		Choose Boot Animation		
			_	
		PORGET	CANCEL SAVE	

#### Case 2

The users do not settle customized boot logo. PD find bootanimation.zip file under SD and USB.The screen will show bootanimation.zip and select the first file automatically.



#### Case 3

The user settle customized boot logo, the screen will show /data/ local/bootanimation.zip.

Choose Boot Animation				
	Choose Boot Animation		_	
	/data/local/bootanimation.zip		۲	
	/mnt/external_sd/bootanimation.zip		0	
	/mnt/usb_storage/bootanimation.zip		0	
	FORGET	CANCEL	SAVE	
		10000		

 If OSD menu Logo item is On or Off, the users cannot choose boot animation in Android settings.



#### 3. Screenshot

Via Enable/Disable to control screenshot On/Off. After Enable, user can set screenshot timeslot and save path.

#### Note:

Time slot of deletion and screenshot:

- (1) Will delete picture at initial time 0 sec.
- (2) Will screeshot at first 40 sec.
- (3) Media player, Browser, CMND & play, PDF reader, Custom source are suppor ted.

(4) Screenshot will not include video container

Main Switch	
Disable	0
Enable	۲
Screenshot	
Interval 30 minutes	
Start time	
End time	
Repeat	
Save to Internal storage	
Purge Screenshots Every Day	
Send screenshots via email For email settings, please go to Signage Display → SERVER SETTINGS → Email Notification.	0

#### 1) Inter val

Set up interval timeframe. 30 mins or 60 mins

Main Switch			
Disable			۲
Enable			
Interval 30 minutes			
Start time		_	_
	Interval		
End time	In a second s		
Repeat	O 60 minutes		
Save to		CANCEL	
Purge Screenshots Every Day			
Send screenshots via email			

#### 2) Start Time

Set up screenshot start time.

#### Note:

- (1) If no star t time, the screen will show current time automatically
- (2) Just press Back key to exit dialog for Set up
- (3) Start time cannot be newer than End time. It will show Error toast.



### 3) End Time

Set up screenshot End time

#### Note:

- (1) If no End time, the screen will show current time automatically
- (2) Star t time cannot be newer than End time. It will show error toast.



### 4) Repeat

Set screenshot repeat cycle. User can choose screenshot time frame. (Multiple selection)

÷				
	Main Switch			
	Disable			۲
	Enable			
	Screenshot			
	Interval 30 minutes	Repeat		
		Sunday		
	Start time 01.23	Monday		
	End time	Tuesday		
		Wednesday     Thursday		
	Repeat	Friday		
	Save to	Saturday	_	
	Internal storage			
	Purge Screenshots	CANCEL OF		
	Send screenshots via email			

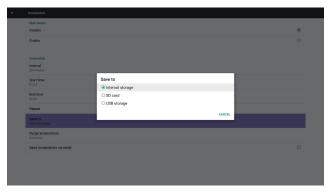
### 5) Save to

Set up screenshot save path. Internal storage, SD card or USB storage.)

#### Note:

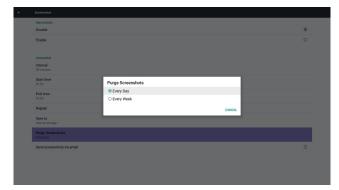
picture storage path

- (1) In root of internal storage/usb storage/sd card, PD will create folder automatically.
- (2) The picture will save to ViewSonic/ Screenshot/.



#### 6) Purge Screenshots

Set up purge timeframe. One day or One week.



(7) Send screenshots via email

After check this item, it will send screenshot to email of administrator Please refer to 6.2.1 Email notification

#### Note:

Please confirm Email setting is done.

#### 5.3.2. Server Settings

1. Email Notification

Via Enable/Disable to control Email On/Off) After Enable, user can set up Email notification configuration.

	Email Notification	
	Main Switch	
	Disable	۲
	Enable	0
	SMTP	
	Settings	
	Manager Email	
	Settings	
	TEST	
	Send Test Mail	

#### 1) SMTP (Set SMTP configuration)

User can set Gmail account or other mail account. User can select other mail account and set up SMTP server, Security type and por t item

#### Note

Password input limitation

- (1) Length: 6-20 characters
- (2) Format: no limit
- (3) unavailable por t: 5000

	Main Switch Disable			۲
	Enable			
		SMTP		
	SMTP	Server Gmail		
	Settings	O Other		
		Email		
	Manager Email		(for example, example@gmail.com)	
	Settings	Password		
	TEST			
		SMTP Server		
		Security type		
		None -		
		Port		
		Port		
			DISCARD SAVE	
÷	Email Notification			
	Main Switch			
	Disable			
	Disable			۲
	Enable		_	* 0
		SMTP	_	
	Enable	Server		
	Enable	Server O Gmail		
	Enable	Server Grnal (a) Other		
	Enable	Server O Gmail	(fer example, example)@gma1.com)	
l	Enable SMTP Settings	Server Ornal Other Email	(fre exemple, exemploggenal.com)	
l	Enable SMTP Settings Maxager Ensill Settings	Server Grnal (a) Other	(fre exemple, exemple;genal.com)	
	Enable SMT9 Settings Manager Emstl Settings TEST	Server O Gross @ Char Email Password	(for example, example;gmail.com)	
	Enable SMTP Settings Maxager Ensill Settings	Server Ornal Other Email	_ (Pe zampia, campingipus).com)	
	Enable SMT9 Settings Manager Emstl Settings TEST	Server Groad Doer Email Passeerd SMTP Server	(be example, example) great som)	
	Enable SMT9 Settings Manager Emstl Settings TEST	Saran O const O const Email SMTP Server Security type	(ive example, example:gms2.som)	
l	Enable SMT9 Settings Manager Emstl Settings TEST	Server Groad Doer Email Passeerd SMTP Server	[Per campin, camping gend .com]	
l	Enable SMT9 Settings Manager Emstl Settings TEST	Saran O const O const Email SMTP Server Security type	(ive example, example:genet.com)	
	Enable SMT9 Settings Manager Emstl Settings TEST	Server Command Contract Email Passesed datTP Server Secondry type None *	[ իս տուրել, տուրել կում չուս )	
	Enable SMT9 Settings Manager Emstl Settings TEST	Server Command Contract Email Passesed datTP Server Secondry type None *	-	
	Enable SMT9 Settings Manager Emstl Settings TEST	Server Command Contract Email Passesed datTP Server Secondry type None *	De emple empleĝant naj	
	Enable SMT9 Settings Manager Emstl Settings TEST	Server Command Contract Email Passesed datTP Server Secondry type None *	-	
	Enable SMT9 Settings Manager Emstl Settings TEST	Server Command Contract Email Passesed datTP Server Secondry type None *	-	
	Enable SMT9 Settings Manager Emstl Settings TEST	Server Command Contract Email Passesed datTP Server Secondry type None *	-	
	Enable SMT9 Settings Manager Emstl Settings TEST	Server Command Contract Email Passesed datTP Server Secondry type None *	-	



#### Gmail safety setting

If Gmail is not working when setting is complete, please test Gmail account via PC and link below URL

And confirm "Access for less secure apps" item is Turn On

Google	
← Less secure ap	ps 🛛 🛛 🖓
	less secure sign-in technology, which makes your account more access for these apps, which we recommend, or <b>turn on</b> access if you e risks. Learn more
Access for less sec	ure apps O Turn off

#### Yahoo Email Security Setting

If Yahoo Email is not working when setting complete, please confirm "Allow apps that use less secure sign in" item is enabled.

YAHOO!		
Personal info	Account security	
Account security	Change password	
Record activity	Phone numbers	
E Preferences	+1 (770) 800-7809	Δ
	Add recovery email address	
	Two-step verification Address security Learn more	
	Allow apps that use less secure sign in times not your apps and devices are less secure sign à tracheding, which cost taker pour annotant annound. In the set atoms paths are reasonment, or above to see there are a tracked and the set of atoms paths are reasonmented, or above to see there been there.	

## 2) Manager Email

#### Set up Receiver mail account

÷			
	Main Switch Disable		۲
	Enable		
	SMTP		
	Settings		
	Manoger Email		
	Settings	Manager Email Manager Email	
		(for example, example@gmail.com)	
		DISCARD SAVE	

## 3) Test

Send Test Mail

- To test Gmail account receive/send function. Note (1) When Email is Disable, "Send Test Mail Button" button will gray out
- 2. FTP

Via Enable/Disable to control FTP On/Off. After set up, PD can share

FTP files.



#### 1) Account Set up FTP account

#### Note:

Input limitation

- (1) Length: 4-20 characters
- (2) Format:
  - I. English a-z and A-Z II. Number 0-9

÷			
	Main Switch		
	Disable		۲
	Enable		
	Account		
	Password		
	Storage Path Internal storage	Please Enter Account	
	Port 2121	· · · · · · · · · · · · · · · · · · ·	
		CANCEL OK	

2) Password

Set up FTP password.

### Note:

Input limitation

- (1) Length: 6-20 characters
- (2) Format: I. English a-z and A-Z
- II. Number 0-9

#### FTP password display

- (1) Will show "\*" symbol to instead password if set up password via remote control.
- (2) After set up, the password text will show as "\*" symbol. Before password input:



#### After password input:

÷			
	Main Switch Disable		۲
	Enable		
	FTP Account		
	Password		
	Storage Path Internal atorage	Please Enter Password	
	Port 2121	CANCEL OK	

#### Set up completed screen:

÷	FTP	
	Main Swinds Disable	۲
	Enable	0
	719 Account	
	Password	
	Storage Path Internal storage	
	Port 2121	

#### 3) Storage Path

Show default path: Internal storage

#### Note:

Can only display Internal storage, cannot be modified.(Only show path)

÷		
	Mais Seitch Disable	۲
	Enable	0
	FTP Account	
	Password	
	Storage Path Internal storage	
	Port 2121	

4) Will show Server is unbinded if Remote control server feedback unbinded status.

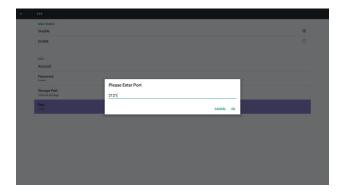
### 5) Port

Set up FTP por t number. Default: 2121

#### Note:

Input limitation

- (1) Length: Max 5 characters
- (2) Range: 1024 ~ 65535
- (3) Format: Number 0-9
- (4) Unavailable por t: 5000
- (5) The port number must more than 1024



3. SICP Network Port Change SICP Network Port.

#### Note:

- (1) Range: 1025-65535
- (2) unavailable port: 8000 / 9988 / 15220 / 28123 / 28124

## 5.3.3. Source Settings

- 1. Media Player
- Can Edit Media Player play list and effect settings.



(1) Open Media Player Player List edit page.



(2) Open Media Player slideshow effect edit page.



2. Browser Can edit Bookmark configuration.



#### Open Browser setting page.



3. PDF Player(1) Open PDF Player Player List edit page.



(2) Open PDF Player effect edit page.



#### 4. Custom App

User can set up the application for Customer Source. Note

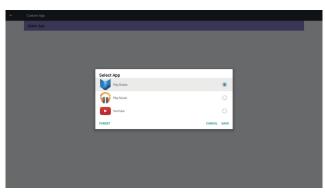
- (1) Only display User Installed app.
- (2) Will not show up system pre-install app. Scalar OSD menu operation

RCU: Source -> Custom

If set up customer APK, PD will open customer app when switch source to Customer mode. If no set up customer APK, PD will show Black screen when switch source to Customer mode.

*	Custom app	
	Select App	

#### Function introduction



(1) Save

Select App and press Save key to save it. (2) Forget

Press Forget key to clean previous stored data

 (3) Cancel No change, close window directly If no customer installed apk, the list will be blank. No option for choose. Save and Forget key will be gray and unavailable.



User can select customer installed apk in list No setup Custom App Screen will show available apps and focus on first

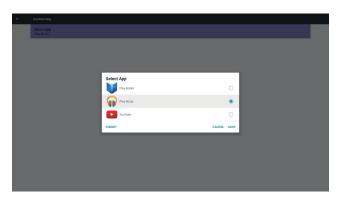
Screen will show available apps and focus on first app item automatically.

Custom App		
Select App		
	and a second	
	Select App Play Books	٠
	Play Music	0
	YouTube	0
	FORGET	CANCEL SAVE

#### After setup, it will show App name



Case2. Setup Custom App. (there is a checked circle on right)



#### 5.3.4. Security

1. External Storage

Enable: SD card/USB External Storage Lock. Disable: SD card/USB External Storage Unlock.

#### Note:

Must re-plug SD card/USB External Storage after unlock the external storage.

### 5.4. System Tools

System tools 4 main functions:

- (1) Clear Storage
- (2) Reset
- (3) Import & Export
- (4) Clone

	System Tools	
	CLEAR STORAGE	
	ALL	
	Internal storage	
	USB storage	
	SD card	
	RESET	
	Factory Reset	
	IMPORT & EXPORT	
	Export Signage Display Settings	
	Import Signage Display Settings	
	Clone	
	Clone Media Files	

#### 5.4.1. Clear Storage

The purpose is to clear all data in viewsonic folders. Divided into 4 mode:

- (1) Clear all viewsonic folders
- (2) Only clear viewsonic folder under Internal storage.
- (3) Only clear viewsonic folder under USB storage.

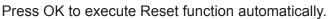
(4) Only clear viewsonic folder under SD card. Pop-up the window to display all folders which can be clear.

÷	System Tools		
	Clear storage All		
	Internal storage		
	USB storage		
l	SD card Reset Factory Reset Import & Export Export Signage Display t Import Signage Display Clone Clone Media Files	Clear storage This will arease all data , including: and arease all data , including: and arease all data , including: and arease all data , including and arease all data all	илат

### 5.4.2. Reset

Factory Reset can recover to Factory default settings.





← Factory Reset			
This will erase all data from your Signage Display's	Internal storage, including:		
System and app data and settings     Downloaded apps     Music     Photos     Other user data			
Erase all your personal information and downloade You can't reverse this action! The system will rebor			
	Reset?		
	Erase all your personal information and downloaded apps? You can't reverse this action! The system will reboot later!		
		CANCEL OK	
	FACTORY RESET		

### 5.4.3. Import & Export

The function of Import & Export PD settins.

#### Notes.

- (1) Settings.db (Saved file name: settings.db)
- (2) Will save to viewsonic folder in storage

#### 5.4.3.1 Export Signage Display Settings

Will export to viewsonic folder under USB or SD card

- Export settings.db. Include OSD setting, Android settings but "Signage Display Name" and "Boot Logo"
- (2) Export 3rd party apk to viewsonic/app/

### Note:

If no viewsonic folder exists in USB or SD card, it will be created automatically.

List all available storage (internal/SD/USB)

Clear storage					
All					
Internal storage					
USB storage					
SD card					
Reset	Select	storage			
Factory Reset		/storage/emulated/0/viewsonic/		۲	
Export Signage Display (	-	/mnt/usb/sda1/viewsonic/		0	
Import Signage Display		/mnt/external_sd/viewsonic/		0	
Clone Clone Media Files			CANCEL	OK	

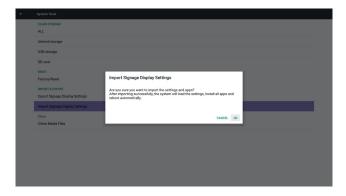
### 5.4.3.2 Import Signage Display Settings

Impor t settings.db from viewsonic folder under USB or SD card.

- Import settings.db. Include OSD setting, Android settings but "Signage Display Name" and "Boot Logo"
- Auto install 3rd par ty apk from viewsonic/ app/List all available storage (Internal/SD/ USB)

Clear storage All			
Internal storage			
USB storage			
SD card			
Reset	elect storage		
Factory Reset	/storage/emulated/0/viewsonic/		•
Import & Export Export Signage Display :	/mnt/usb/sda1/viewsonic/		0
Import Signage Display	/mnt/external_sd/viewsonic/		0
Clone Clone Media Files	_	CANCEL	

Show notification dialog before database import



### 5.4.4. Clone

Clone media file from Internal, SD or USB viewsonic folder.

- 1. The cloned folder name under viewsonic folder
  - (1) viewsonic/photo
  - (2) viewsonic/music
  - (3) viewsonic/video
  - (4) viewsonic/pdf
  - (5) viewsonic/browser

- 2. Clone Source
  - (1) Internal storage
    - (a) check FTP
    - (b) check /viewsonic/
  - (2) SD / USB Files under root
- 3. Target Location
  - (1) Internal storage Save to /viewsonic/
  - (2) SD / USB Save to root

Close Source	
Internal storage	0
SD card	0
USB storage	۲
Path: /mnt/usb/sds1/viewsonic/	
Target Location	
Internal storage	۲
SD card	0
SD card USB storage	0

### 5.5. Display

User can modify the font size, can choose: Small/ Normal/Large/Huge

CLONE

÷	Display	
	Font size Huge	

### 5.6. Apps

Display applications information.

### Note

(1) User options key on RCU to show setting option.

÷	Арря		
		DOWNLOADED	RUNNING
		No apps.	
		tto appoi	
1			
1			
1			
1			

### 5.7. Date & time

Via Scalar OSD menu to control Auto Time On/Off.

### Note:

Add new NTP server to display current ser ver IP.

÷	Date & time	
	Select time zone GMT-9139 Britsh Summer Time	
	NTP Server 2 android pool mp org	

### 5.8. Developer options

Android developer options

÷	Developer options	
	Take bug report	
	Desktop backup password Desktop full beckups went currently protected	
	Stay awake Screen will rever sleep while charging	0
	Process Stats Geeky stats about running processes	
	Boot check run dersept for apps when boot accident detected	(3
	Debugging	
	USB debugging Debug mode when USB is connected	•
	Bug report shortout Show a button in the power menu for taking a bug report	(2
	Allow mock locations Allow mock locations	
	Enable view attribute inspection	(3
	Select debug app No debug application set	
	Wait for debugger Debugged application waits for debugger to attach before executing	01

### 5.9. About

Main info in About:

- (1) System updates
- (2) Legal information
- (3) Android version
- (4) Kernel version
- (5) Build number

Adout
System updates
Legal Information
Android version 5.0.1
Kenel version 118.00 Co55510
Build number

### 5.9.1. System updates

Will automatically search update.zip in USB. Will be shown in list for user selection if found

### Note:

- (1) Only support Android Full image.
- (2) file name should be update.zip.
- (3) the file should be located in root of storage.

System updates				
Legal information				
Android version 5.0.1				
Kernel version 3.10.40 CDE5510				
Build number F801.03	Select storage		-	
	mmt/usb/sda1/update.zip		۲	
		CANCEL	ok	

After select update.zip file, PD will restart and start to update.

### 6. OSD Menu

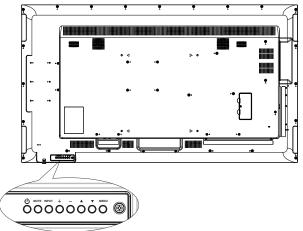
An overall view of the On-Screen Display (OSD) structure is shown below. You can use it as a reference for further adjusting your display.



# Navigating the OSD menu using the remote control:

- 1. Press the [♠] MENU button to display the OSD menu.
- Press [] [] [] or [] button to select its menu item or to adjust its value. Press OK button to confirm.
- 3. Press [ ] EXIT button to go back to the previous menu layer.
- 4. Press [ ] MENU button to exit the OSD menu.

# Navigating the OSD menu using the display's control buttons:



- 1. Press the **MENU** button to display the OSD menu.
- 2. Press the [▲] [▼] [+] or [-] to select menu item or adjust its value.
- 3. Press [**INPUT**] button to confirm menu selection and enter its submenu.
- 4. Press **MENU** to confirm menu selection and enter its submenu.

### 6.1. Settings

### 6.1.1. Picture menu

Picture	Brightness	90
Screen	Contrast	50
Audio	Sharpness	20
Configuration 1	Black level	50
Configuration 2	Tint	50
Advanced option	Color	55
	Noise reduction	Medium
	Gamma selection	Native
	Color temperature	Native
	Color control	Action
	Smart power	Off
	Overscan	Off

### **Brightness (Picture)**

Adjust the overall image and background screen brightness(backlight).

### Contrast

Adjust the image contrast ratio for the input signal.

### Sharpness

This function is digitally capable to keep crisp image at any timings.

It is adjustable to get a distinct image or a soft one as you prefer and set independently for each picture mode.

### Black level

Adjust the image brightness for the background. **NOTE**: sRGB picture mode is standard and cannot be changed.

### Tint (Hue)

Adjust the tint of the screen.

Press + button the flesh tone color becomes greenish. Press - button the flesh tone color becomes purplish.

NOTE: VIDEO mode only.

### **Color (Saturation)**

Adjust the color of the screen.

Press + button to increase color depth. Press - button to decrease color depth.

NOTE: VIDEO mode only

### **Noise Reduction**

Adjust the noise reduction level.

### Gamma selection

Select a display gamma. It's refer to the brightness performance cur ve of signal input. Choose from {Native} / {2.2} / {2.4} / {s gamma} / {D-image}.

**NOTE**: sRGB picture mode is standard and cannot be changed.

### **Color temperature**

It is used to adjust the color temperature.

The image becomes reddish as the color temperature decreases, and becomes bluish as the color temperature increases.

ССТ	10000° K	9300 ° K	7500 ° K	6500 ° K	5000 ° K	4000 ° K	3000 ° K
х	0.279 ± 0.030	0.283 ± 0.030	0.299 ± 0.030	0.313 ± 0.030	0.346± 0.030	0.382± 0.030	0.440± 0.030
Y	0.292 ± 0.030	0.298 ± 0.030	0.315 ± 0.030	0.329 ± 0.030	0.359± 0.030	0.384± 0.030	0.403± 0.030

### Color control

The color levels of red, green, and blue are adjusted by the color bars. R: Red gain, G: Green gain, B: Blue gain.

### Smart power

Smar t Power control is not relative to brightness control:

- Initial setting Brigthness 70 (in the range from 0-100) Power consumption 70% of maximum power consumption
- 2. Smart Power
  - OFF: no adaptation

MEDIUM: 80% of power consumption relative to current settings

HIGH: 65% of power consumption relative to current settings

### Overscan

Change the display area of the image. ON: Set to display area about 95%. OFF: Set to display area about 100%.

### **Picture reset**

Reset all settings in the Picture menu.

Select "Yes" and press "SET" button to restore to factory preset data. Press "EXIT" button to cancel and then return to the previous menu.

### 6.1.2. Screen menu

Picture		50
Screen	V position	50
Audio	Clock	97
Configuration 1	Zoom mode	Full
Configuration 2	Custom zoom	Action
Advanced option	Auto adjust	Action
	Screen reset	Action

### H position

Control Horizontal Image position within the display area of the LCD.

Press + button to move screen to right.

Press - button to move screen to left.

**NOTE**:VGA input only.

### V position

Control Ver tical Image position within the display area of the LCD.

Press + button to move screen to up.

Press - button to move screen to down. **NOTE**:VGA input only.

### Clock

Press + button to expand the width of the image on the screen the right.

Press - button to narrow the width of the image on the screen the left.

**NOTE**:VGA input only.

### Zoom mode

 $\label{eq:hdml} \begin{array}{l} \mbox{HDMI, DP, VGA, OPS: } {Full} / {4:3} / {Real} / {21:9} / {Custom}. \\ \mbox{Playing media in Media Player : } {Full} / {4:3} / {Real} / {21:9} \end{array}$ 

There are no function when BROWSER, CMND & Play, PDF Player, PDF Player, Custom and Media Player UI and Android UI

Zoom Mode will be "Full" when tiling

	<b>Full</b> This mode restores the correct proportions of pictures transmitted in 16:9 using the full screen display.
	<b>Normal</b> The picture is reproduced in 4:3 format and a black band is displayed on either side of the picture.
	<b>Real</b> This mode displays the image pixel- by-pixel on screen without scaling the original image size.
	<b>Dynamic</b> The picture is reproduced in 16:9 format and a black band at the top and bottom.
$ \begin{array}{c} \circ \\ \circ \\$	<b>21:9</b> The picture is reproduced in 21:9 format and a black band at the top and bottom.
	Custom Choose to apply the custom zoom settings in the Custom Zoom submenu.

### Custom zoom

You can use this function to fur ther customize the zoom settings to suit the image you want to display.

**NOTE**: This item is functional only when the {**Zoom mode**} is set to {**Custom**}.

	<b>Zoom</b> Expands the horizontal and vertical sizes of the image simultaneously.
	<b>H zoom</b> Expands the horizontal size of the image only.
ţ.	V zoom Expands the vertical size of the image only.
	H position Moves the horizontal position of the image left or right.
t Ļ	V position Moves the ver tical position of the image up or down.

### Auto adjust

Press "Set" to detect and adjust H position,V position, Clock, Phase

### Screen reset

Reset all settings in the Screen menu to factory preset values.

### 6.1.3. Audio menu

Picture	Balance	50
Screen	Treble	50
Audio	Bass	50
Configuration 1	Volume	30
Configuration 2	Audio Out (Line Out)	30
Advanced option	Maximum Volume	100
	Minimum Volume	
	Mute	Off
	Audio source	Digital
	Audio reset	Action
	Audio Out Sync	Off

### Balance

Adjust to emphasize left or right audio output balance.

### Treble

Adjust to increase or decrease higher-pitched sounds.

### Bass

Adjust to increase or decrease lower-pitched sounds.

### Volume

Adjust to increase or decrease the audio output level.

### Audio out (line out)

Adjust to increase or decrease line out output level.

### Maximum volume

Adjust your own limitation for the maximum volume setting. This stops the volume from being playing at too loud a level.

### Minimum volume

Adjust your own limitation for the minimum volume setting.

### Mute

Turn the mute function on/off.

### Audio source

Select the audio input source. There are no audio output when no video signal.

Analog: audio from audio input

Digital : audio from HDMI audio.

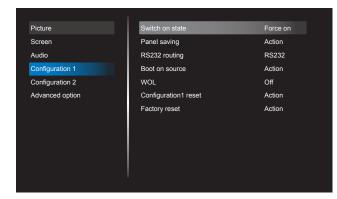
### Audio reset

Reset all settings in the Audio menu to factory preset values.

### Audio Out Sync

Enable/disable audio out (line out) volume adjustability to sync with internal speakers.

### 6.1.4. Configuration1 menu



### Switch on state

Select the display status used for the next time you connect the power cord.

- {Power off} The display will remain off when the power cord is connected to a wall outlet.
- {Forced on} The display will turn on when the power cord is connected to a wall outlet.
- {Last status} The display will return to the previous power status

### Panel saving

Choose to enable the panel saving functions and thus reduce the risk of "image persistence" or "ghost-imaging".

- {Brightness} Select {On} and the image brightness will be reduced to an appropriate level.The Brightness setting in the Picture menu will be unavailable when selected.
- {Pixel shift} Select the time inter val ({Auto} / {10 ~ 900} Seconds/ {Off}) for the display to slightly expand the image size and shift the position of pixels in four directions (up, down, left, or right). Activating Pixel Shift will disable H Position,V Position and Zoom Mode in the Screen Menu.

**Note**: Only suppor t external input source (HDMI,VGA, DP, OPS).

### **RS232-Routing**

Select the network control port. Choose from: {RS232} / {LAN -> RS232}

### Boot on source

Choose to select source when boot up. Input: select input source when boot up.

Playlist: select playlist index for Media player, Browser, PDF player.

0: no play list. Same as switch source from OSD.1~7: playlist number. No failover function, system will keep source even the source is no signal input.

### WOL

Choose to turn on or off the wake on LAN function. Choose from : {Off} / { On}

### **Configuration1 reset**

Reset all settings in **Configuration1** menu to the factory preset values.

### **Factory reset**

Reset all settings in the OSD menus of {**Picture**}, {**Screen**}, {**Configuration1**}, {**Configuration2**}, and {**Advanced option**} to the factor y preset values.

Android settings will also reset when factory reset.

Press [-] or [-] button to select {**Reset**}, and press [**OK**] button to do the reset.



### 6.1.5. Configuration2 menu

Picture	OSD turn off	
Screen	OSD H position	50
Audio	OSD V position	50
Configuration 1	Information OSD	10
Configuration 2	Logo	On
Advanced option	Monitor ID	Action
	Heat status	24.21°C 75.57°F
	Monitor information	Action
	HDMI Version	
	Configuration2 reset	Action

### OSD turn off

Set the period of time the OSD (on-screen display) menu stays on the screen. The options are: {**Off**, **5** ~ **120**} seconds. \*{Off} does not disappear automatically.

### **OSD H-position**

Adjust the horizontal position of the OSD menu.

### Information OSD

Set the period of time the information OSD is displayed on the upper right corner of the screen. The information OSD will display when input signal is changed.

The information OSD will remain on the screen with  $\{Off\}$  selection. The options are:  $\{1 \sim 60\}$  seconds.

### Logo

Choose to enable or disable the picture of Logo when turn on your display.

The options are:

- {Off}
- {On} (Default)
- {User}
- 1. If Logo set to ON, both scalar ViewSonic logo and android animation ViewSonic logo will show.
- 2. If Log set to OFF, neither scalar ViewSonic logo nor android animation logo will not show.
- 3. If Logo set to USER, custom logo option in android is not set, then there will be no boot logo when power on.
- 4. If Logo set to USER, custom logo option in android is set, there will be only custom logo when power up.

\* Logo will NOT rotate with rotation setting/ detection.

### **Monitor ID**

Set the ID number for controlling the display via the RS232C connection. Each display must have a unique ID number when multiple sets of this display are connected. Monitor ID number range is between 1 to 255.

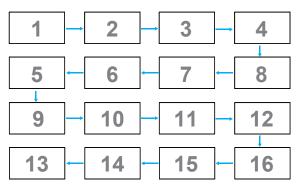
The option are: {Monitor group}



### {Monitor group}

The options are: {Off} / {1-254}

- {Off} {Monitor group} are not suppor ted.
- {1-254} {Monitor group} are suppor ted. The default setting is 1.



### Heat status

This function allows you to check the thermal status at any time.

### **Monitor information**

Shows information about your display, including model number, serial number, operating hours and software version.

Monitor information	
Model name	CDE6510
Serial NO.	N/A
Operation hours	0
SW Version	FB01.06

### **HDMI Version**

Set the HDMI version to 1.4 or 2.0, this setting is only valid on HDMI input

### **Configuration2 reset**

Reset all settings in Configuration2 menu to the factory preset values.

### 6.1.6. Advanced option menu

Picture	IR control	Unlock
Screen	Power LED Light	On
Audio	Keyboard control	Unlock
Configuration 1	Tiling	Action
Configuration 2	Off Timer	Off
Advanced option	Date and time	Action
	Schedule	Action
	HDMI with One Wire	Off
	Language	English
	OSD Transparency	Off
	Power Save	Mode 1
	Advanced option reset	Action

### **IR** control

Select the operation mode of the remote control when multiple displays are connected via an RS232C connection.

- {**Normal**} All displays can be operated normally by the remote control unit.
- {Primary} Designate this display as the primar y display for remote control operation. Only this display can be operated by the remote control. (In primar y mode, IR key will always be processed regardless the monitor id/group settings).
- {Secondary} Designate this display as the secondary display. This display can not be operated by the remote control, and will only receive the control signal from the primar y display via the RS232C connection.
- {Lock All} / {Lock all but Volume} / {Lock all but Power} / {Lock all except PWR & VOL}-Lock the remote control function of this display. To unlock, press and hold the [i] INFO button on the remote control for 6 (six) seconds.

### **Power LED light**

Choose to set power indicate LED on or off. Choose **{On}** for normal use

### **Keyboard control**

Choose to enable or disable the display keyboard (control buttons)

### function.

- {**Unlock**} Enable the keyboard function.
- {Lock All} / {Lock all but Volume} / {Lock all but Power} / {Lock all except PWR & VOL} -Disable the keyboard function.

**NOTE**: "Keyboard Control Lock Mode"This function completely

disables the access to all Keyboard Control functions. To enable or disable the keyboard control lock, press both [+] and [] buttons and hold down continuously for more than 3 seconds.

### Tiling

With this function you can create a single largescreen matrix (video wall) that consists of up to 150 sets of this display (**up to 10-sets on the vertical and 15-sets on the horizontal sides**). This function requires a daisy-chain connection.

- Switch on delay: Set the power-on delaying time (in seconds). The default option {Auto} allows a sequential powering-on for each display by their ID number when multiple displays are connected.
- The options are: {Off (0) / Auto(1) / 2-255}
  Brightness: {Normal}/{ACS}
  {Normal}: Adjust the overall image and

AcS: Apply brightness value (backlight).
{ACS: Apply brightness value (backlight) which is adjusted by MIC tool. The default value before adjustment is the same as OSD brightness value, e.g., 70

- Type: {Off} (Default)/{SW Tool}/{OSD Only}
- Source resolution: {Full HD}(Default)/ {4K}
- H monitors Select the number of displays on the horizontal side.
- V monitors Select the number of displays on the ver tical side.
- **Position** Select the position of this display in the screen matrix.
- Frame comp. Choose to turn the frame compensation function on or off. If selected {Yes}, the display will adjust the image to compensate for the width of the display bezels in order to accurately display the image.

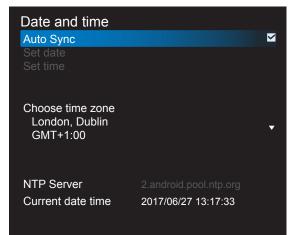
**NOTE**: Doesn't suppor t screen format function in tiling using cascade mode.

### **Off Timer**

Set automatically power off time (in hours).

### Date and time

Adjust the current date and time for the display's internal clock.



- 1. Press [OK] button to enter or choose
- 2. Press [ ] back button to return.
- Press [] or [] button to adjust them.
   \* Cannot set time to date after year 2037.

### Schedule

This function allows you to program up to 7 (seven) different scheduled time intervals for the display to activate.

Schedule	
Schedule list	1
Enable	
Start time	
End time	
Input	
Playlist	
Days of the week	
Every week	
Back	SAVE

Schedule list:You can set 7 schedules.

- **Enable**: Enable/disable schedule. If set start/end time is conflict or empty, input is empty or time conflict with other schedule list, you cannot enable schedule.
- Start time: Set start time.
- End time: Set end time.
- **Input**: Platform will go to this select source automatically after the schedule on.
- Play list: 1 7: playback File1 File7 of playlist automatically, only media player, pdf player and browser can set.
- **Days of the week**: Set Sunday, Monday,Tuesday, Wednesday, Thursday, Friday, Saturday.
- Every week: Set lifecycle.
- Back: Does not change schedule data.
- Save: Save schedule data.

### **HDMI** with One Wire

CEC control.

- {Off} Disable CEC.(Default)
- {On} Enable CEC.

### Language

Select the language used in the OSD menu. The options are: English/Deutsch/ 简体中文 / Français/Italiano/Español/ Русский/Polski/Türkçe/ 繁體中文.

### **OSD Transparency**

Adjust OSD transparency.

- {Off} Transparency off.
- {1-100} Transparency level 1-100.

### **Power Save**

Mode 1 [TCP off, WOL on, auto off]

Mode 2 [TCP off, WOL on, auto on/off]

Mode 3 [TCP on, WOL off, auto on/off]

Mode 4 [TCP on, WOL off, no auto on/off]

### Power save modes

Mode 1:	DC off -> Power off. LED: Red.				
	Power Save -> Power off, LED: Red				

- Mode 2: DC off -> Power off, LED: Red. Power Save -> Power Saving. LED: Orange. Can be wake up.
- Mode 3: DC off -> Back light off, LED: Red Power Save -> Back light off, LED: Orange. Can be wake up.
- Mode 4: DC off -> Back light off, LED: Red Power Save -> Will not enter power save mode. show "no signal" only.

	RCU Power Button Off	No Signal	WoL	Android (ARM)
Mode 1 [TCP off, WOL on, auto off]	DC OFF	DC OFF	V	ARM OFF
Mode 2 [TCP off, WOL on, auto on/ off] (gary out)	DC OFF	When signal is back, system wake up	V	ARM OFF
Mode 3 [TCP off, WOL off, auto on/ off]	Backlight OFF	Backlight OFF	х	ARM OFF
Mode 4 [TCP off, WOL off, no auto on/off]	Backlight OFF	Backlight ON, show no signal	Х	ARM OFF

\* This product does not suppor t Mode 2

Following table is the action for Android board with different power mode.

### DC off/on: press power button by RC

Power mode in OSD	Mode 1/2	Mode 3/4
DC off	shutdown	<ol> <li>The cur rent source APK (such as MediaPlayer, Broswer, PDF or Smar tCMS) will be closed.</li> <li>Android system will go to the default black launcher.</li> </ol>
DC on	Boot up	1. Android system reboots

### Auto FW Update

Setup Android FW auto background update time.

NOTE: When Auto FW update is not OFF, display

will work under Mode3 for FW update, but OSD item will not change.

### Advanced option reset

Reset all settings except {Date and Time} in the Advanced option menu to factory preset values.

- 1. Press [OK] or [-] button to enter the submenu.
- Press [-] or [-] button to select {Reset} and press the [OK] button to restore settings to factory preset values.
- 3. Press the [**→**] button or select {**Cancel**} and press the [**OK**] button to cancel and then return to the previous menu.

## 7. Supported Media Formats

### **USB Multimedia Codec Formats**

Video Deco	Video Decode					
Туре	Video Codec	Container	Decode	Encode	Channel	Remark
MPEG1/2	MPEG1/2	MPEG program stream (.DAT, .VOB, .MPG, .MPEG) MPEG transport stream (.ts, .trp, .tp) MP4 (.mp4, .mov) 3GPP (.3gpp, .3gp) AVI (.avi) MKV (.mkv)	V			Max Resolution: 1080P@60fps Max Bit Rats: 40Mbps
MPEG-4	MPEG-4	MP4 (.mp4, .mov) 3GPP (.3gpp, .3gp) AVI (.avi) MKV (.mkv)	V			Max Resolution: 1080P@60fps Max Bit Rats: 40Mbps
H.263	H.263	FLV (.flv) AVI (.avi)	V			Max Resolution: 1080P@60fps Max Bit Rats: 40Mbps
H.264	H.264	FLV (.flv) MP4 (.mp4, .mov) 3GPP (.3gpp, .3gp) MPEG transport stream (.ts, .trp, .tp) ASF (.asf) WMV (.wmv) AVI (.avi) MKV (.mkv)	V			Max Resolution: 1080P@60fps Max Bit Rats: 135Mbps 4k2k@30fps
H.265	H.265	MP4 (.mp4, .mov) 3GPP (.3gpp, .3gp) MPEG transport stream (.ts, .trp, .tp) MKV (.mkv)	V			Max Resolution: 4K2K@60fps Max Bit Rats: 100Mbps
GOOGLE VP8	VP8	MKV (.mkv) WebM (.webm)	V			Max Resolution: 1080P@30fps Max Bit Rats: 20Mbps
Motion JPEG	MJPEG	AVI (.avi) 3GPP (.3gpp, .3gp) MP4 (.mp4, .mov) MKV (.mkv)	V			Max Resolution: 1920*1080 @30fps Max Bit Rats: 40Mbps

### Audio Decode

Туре	Audio Codec	Container	Decode	Encode	Channel	Remark
MPEG Audio	MPEG1/2/2.5 Audio Layer1/2/3	MP3	V		2	Bit Rate: 8kbps~320Kbps Sampling Rate: 16KHZ~48KHz
Windows Media Audio	WMA Version 7, 8, 9,10 pro M0, 10Pro M1, M10 Pro M2	Decode: WMA	V		2	Bit Rate: 8kbps~768Kbps Sampling Rate: 8KHZ~96 (M10)KHz Non-support LBR
AAC Audio	MAIN, ADIF ,ATDS Header AAC-LC and AAC-HE	File Format: AAC, M4A	V		5.1	Bit Rate: N/A Sampling Rate: 8KHZ~48KHz

#### Image Decode

Туре	Image Codec	Photo	Decode	Encode	Channel	Remark
JPEG	JFIF file format 1.02	File Format: JPG, JPEG	V		2	Max Resolution: 7000 x 7000 The limitation of max resolution depends on DRAM
BMP	BMP	File Format: BMP	V		2	Max Resolution: 15360 x 8640 The limitation of max resolution depends on DRAM
PNG	PNG	File Format: PNG	V		5.1	Max Resolution: 15360 x 8640 The limitation of max resolution depends on DRAM

#### NOTES:

- Sound or video may not work if the contents have a standard bit rate/frame rate above the compatible Frame/sec listed in the table above.
- Video content with a Bit rate or Frame rate larger than the rate specified in the table above can cause choppy video during playback.

### 8. Input mode

### VGA Resolution:

Standard	Active Re	solution	Refresh Rate	Pixel Rate	Aspect Ratio	Stand for Mode
Resolution	H Pixels	V Lines	Refresh Rate Fixer Rate A		ASPECT Ratio	Stand for would
			60 Hz	25.175 MHz		
VGA	640	480	72 Hz	31.5 MHz	4:3	Video Graphic Array
			75 Hz	31.5 MHz		
WVGA	720	400	70 Hz	33.75 MHz	16:9	Wide Video Graphic Array
	000	600	60 Hz	40 MHz	4:3	Super VGA
SVGA	800	600	75 Hz	49.5 MHz		
XGA	1024	768	60 Hz	65 MHz	4:3	Extended Graphic
AGA	1024	700	75 Hz	78.75 MHz	4.5	Array
WXGA	1280	768	60 Hz	79.5 MHz	5:3	Wide XGA
WXGA	1280	800	60 Hz	79.5 MHz	16:10	Wide XGA
SXGA	1280	1024	60 Hz	108 MHz	5:4	Super XGA
WXGA	1360	768	60 Hz	85.5 MHz	16:9	Wide XGA
WXGA	1366	768	60 Hz	85.5 MHz	16:9	Wide XGA
UXGA	1600	1200	60 Hz	162 MHz	4:3	Ultra XGA
HD1080	1920	1080	60 Hz	148.5 MHz	16:9	HD1080

Note: 1280x768@60Hz can be suppor ted but not shown in EDID table.

### SD Resolution:

Standard	Active R	esolution	Refresh Rate Pixel Rate		Acrest Datio
Resolution	H Pixels	V Lines	Refresh Rate	Pixel Rale	Aspect Ratio
480i	700	400	29.97 Hz	13.5 MHz	4.2
480p	720	480	59.94 Hz	27 MHz	4:3
576i	720	480	25 Hz	13.5 MHz	4.2
576p	720	400	50 Hz	27 MHz	4:3

### **HD Resolution:**

Standard	Active Resolution		Refresh Rate	Pixel Rate	A ana at Datia
Resolution	H Pixels	V Lines	Refresh Rate	Pixel Rale	Aspect Ratio
720 p	1280	720	50 Hz		: 16:9
720p	1200	720	60 Hz	74.25 MHz	
1080i	1020	1090	25 Hz	- 74.25 MHz 16:9	16.0
10001	1920	1080	30 Hz		10.9
10200	4000	4000	50 Hz	148.5 MHz	16:9
1080p	1920	1080	60 Hz		
0100-			30 Hz	297 MHz	
2160p	3840	2160	50 Hz	594 MHz	16:9
(HDMI only)			60 Hz		

Note: OPS/DisplayPort support 3840x2160@30Hz.

- The PC text quality is optimum in HD 1080 mode (1920 x 1080, 60Hz).
- Your PC display screen might appear different depending on the manufacturer (and your par ticular version of Windows).
- Check your PC instruction book for information about connecting your PC to a display.
- If a ver tical and horizontal frequency-select mode exists, select 60Hz (ver tical) and 31.5KHz (horizontal). In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the [INPUT] button to enter the video mode. Also, make sure that the PC is connected.
- When horizontal synchronous signals seem irregular in RGB mode, check PC power saving mode or cable connections.
- The display settings table complies to the IBM/VESA standards, and based on the analog input.
- The best timing for the ver tical frequency to each mode is 60Hz.

### 9. Cleaning and Troubleshooting

### 9.1. Cleaning

### When Using the Display

- Do not bring your hands, face or objects close to the ventilation holes of the display. The top of the display is usually very hot due to the high temperature of exhaust air being released through the ventilation holes. Burns or personal injuries may occur if any body parts are brought too close. Placing any object near the top of the display could also result in heat related damage to the object as well as the display itself.
- Be sure to disconnect all cables before moving the display. Moving the display with its cables attached may damage the cables and thus cause fire or electric shock.
- Disconnect the power plug from the wall outlet as a safety precaution before carrying out any type of cleaning or maintenance procedure.

### **Front Panel Cleaning Instructions**

- The front of the display has been specially treated. Wipe the surface gently using only a cleaning cloth or a soft, lint-free cloth.
- If the surface becomes dirty, soak a soft, lint-free cloth in a mild detergent solution. Wring the cloth to
  remove excess liquid. Wipe the surface of the display to remove dirt. Then use a dry cloth of the same
  type to dry.
- Do not scratch or hit the surface of the panel with fingers or hard objects of any kind.
- Do not use volatile substances such as insert sprays, solvents and thinners.

### **Cabinet Cleaning Instructions**

- If the cabinet becomes dirty, wipe the cabinet with a soft, dry cloth.
- If the cabinet is extremely dirty, soak a lint-free cloth in a mild detergent solution. Wring the cloth to remove as much moisture as possible. Wipe the cabinet. Use another dry cloth to wipe over until the surface is dry.
- Do not allow any water or detergent to come into contact with the surface of the display. If water or moisture gets inside the unit, operating problems, electrical and shock hazards may result.
- Do not scratch or hit the cabinet with fingers or hard objects of any kind.
- Do not use volatile substances such as insert sprays, solvents and thinners on the cabinet.
- Do not place anything made from rubber or PVC near the cabinet for any extended periods of time.

### 9.2. Troubleshooting

Symptom	Possible Cause	Remedy
No picture is displayed	<ol> <li>The power cord is disconnected.</li> <li>The main power switch on the back of the display is not switched on.</li> <li>The selected input has no connection.</li> <li>The display is in standby mode.</li> </ol>	<ol> <li>Plug in the power cord.</li> <li>Make sure the power switch is switched on.</li> <li>Connect a signal connection to the display.</li> </ol>
Interference displayed on the display or audible noise is heard	Caused by surrounding electrical appliances or fluorescent lights.	Move the display to another location to see is the interference is reduced.
Color is abnormal	The signal cable is not connected properly.	Make sure that the signal cable is attached firmly to the back of the display.
Picture is distorted with abnormal patterns	<ol> <li>The signal cable is not connected properly.</li> <li>The input signal is beyond the capabilities of the display.</li> </ol>	<ol> <li>Make sure that the signal cable is attached firmly.</li> <li>Check the video signal source to see if it is beyond the range of the display. Please verify its specifications with this display's specification section.</li> </ol>
Display image doesn't fill up the full size of the screen	Zoom mode is not correctly set.	Use the Zoom mode or Custom zoom function in the Screen menu to fine tune display geometry and time frequency parameter.
Can hear sound, but no picture	Improperly connected source signal cable.	Make sure that both video inputs and sound inputs are correctly connected.
Can see picture but no sound is heard	<ol> <li>Improperly connected source signal cable.</li> <li>Volume is turned all the way down.</li> <li>[MUTE] is turned on.</li> <li>No external speaker connected.</li> </ol>	<ol> <li>Make sure that both video inputs and sound inputs are correctly connected.</li> <li>Press [VOL +] or [VOL -] button to hear sound.</li> <li>Switch MUTE off by using the K [MUTE] button.</li> <li>Connect external speakers and adjust the volume to a suitable level.</li> </ol>
Some picture elements do not light up	Some pixels of the display may not turn on.	This display is manufactured using an extremely high level of precision technology: however, sometimes some pixels of the display may not display. This is not a malfunction.
After-Images can still be seen on the display after the display is powered off. (Examples of still pictures include logos, video games, computer images, and images displayed in 4:3 normal mode)	A still picture is displayed for an over extended period of time	Do not allow a still image to be displayed for an extended period of time as this can cause a permanent after-image to remain on the display.

## 10. Technical Specifications

## Display:

Item	Specifications
Screen Size (Active Area)	163.9 cm / 64.5 inch
Aspect Ratio	16:9
Number of Pixels	3840 (H) x 2160 (V)
Pixel Pitch	0.372 (H) x 0.372 (V) [mm]
Displayable Colors	10 bits(D), 1.07 Billion colors
Brightness	350 cd/m <sup>2</sup>
Contrast Ratio (Typical)	4000:1
Viewing Angle	178 degrees

### In/Out Terminals:

Item		Specifications
		10W (L) + 10W (R) [RMS]/8Ω
Speaker Output	Internal Speakers	1 Way 1 Speaker System
		82 dB/W/M/160 Hz ~ 13 KHz
Audio Output	RCA R/L x 1	0.5V [rms] (Normal) / 2 Channel (L+R)
Audio Input	3.5mm phone jack x 1	0.5V [rms] (Normal) / 2 Channel (L+R)
RS232C	2.5mm Phone jack x 2	RS232C in/RS232C out
RJ-45	RJ-45 Jack x 1 (8 pin)	10/100 LAN Port
		Digital RGB: TMDS (Video + Audio)
HDMI Input	HDMI Jack x 4 (Type A) (19 pin)	MAX: Video: 720p, 1080p, 3840 × 2160/60 Hz (WUXGA) Audio: 48 KHz / 2 Channel (L+R)
		Supports LPCM only
		Digital RGB:TMDS (Video)
VGA Input	D-SUB jack (15pin)	Analog RGB: 0.7V [p-p] (75Ω), H/CS/V:TTL (2.2kΩ),
		MAX: 1920 x 1080/60 Hz (WUXGA)
		Digital RGB: TMDS (Video + Audio)
	Displayport Jack x 1	MAX: Video: 720p, 1080p, 3840 × 2160/30 Hz (WUXGA)
Displayport Input	(20 pin)	Audio: 48 KHz / 2 Channel (L+R)
		Supports LPCM only

### General:

Item	Specifications
Power Input	100 - 240V~, 50 - 60Hz, 3.5A
Power Consumption (Max)	295 W
Power Consumption (typ.)	165 W
Power Consumption (Standby & Off)	<0.5 W
Dimensions (Without Stand) [W x H x D]	1458.7 x 834.7 x 81.6 mm
Weight (Without Stand)	24.8 Kg
Gross Weight (Without Stand)	34.84 Kg

### **Environmental Condition:**

Item		Specifications
Tomporatura	Operational	0 ~ 40°C
Temperature	Storage	-20 ~ 60°C
Humidity	Operational	20 ~ 80% RH (No condensation)
Humaity	Storage	5 ~ 95% RH (No condensation)
Altitude	Operational	0 ~ 3,000 m
Annual	Storage	0 ~ 9,000 m

### Internal Speaker:

Item	Specifications
Туре	1 Way 1 Speaker
Input	10 W (RMS)
Impedance	28
Output Sound Pressure	82 dB/W/M
Frequency Response	160 Hz ~ 13 KHz

### 11. RS232 Protocol

### 11.1. 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.

### 11.2. Description

### 11.2.1. 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)

 $\begin{array}{c} 0 & 2 & 3 & 4 \\ & 6 & 7 & 8 & 0 \end{array}$ 

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

[Special case] 2.5mm barrel

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

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

### 11.2.2. Communication Setting

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

### 11.2.3. 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)

### 11.3. Protocol

### 11.3.1. 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: TV/DS ID	Total Byte of Message excluding "CR". Identification for each of TV/DS (01~98; default is 01) If we want to set all TV/DS settings, use the TV/DS ID " <b>99</b> ", and it will not have <b>Reply</b> command on this function. 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:

### **Basic function**

Set Function	Length	ID	Command	Corr	nmand	Value Range	Comments
			Type (ASCII)	Code (ASCII)	Code (Hex)	(Three ASCII bytes)	
Power on/off (standby)	8		S	!	21	000: STBY 001: ON	
Input Select	8		S	α	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)	<ol> <li>No need for USB</li> <li>For the case of two more same sources, the 2<sup>nd</sup> digital is used to indicate the extension.</li> <li>The HEX of 00A is 30 30 41.</li> </ol>
Brightness	8		s	\$	24	000 ~ 100	
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
Remote Control	8		S	В	42	000: Disable 001: Enable 002: Pass through	Disable: RCU will be no function Enabled: RCU controls normally Pass through: Display will bypass the RC code to connected device via the RS232 port, but not react itself.

### Optional function

Set Function	Length	ID	Command	Com	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	£	27	000 ~ 100	
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 extended for more supported 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: PIP(POP)	
PIP-Position	8		S	3	3B	000: Up 001: Down 002: Left 003: Right	
PIP-Input	8		S	7	37 <sup>-2.9</sup>	000: TV 001: AV 002: S-Video 003: YPbPr 004: HDMI1 014: HDMI2 024: HDMI3 034: HDMI4 005: DVI 006: VGA1 016: VGA2 026: VGA3 007: Slot-in PC (OPS/ SDM)/HDBT 008: Internal memory 009: DP 00A: Embedded/Main (Android)	Value range is same as SET-Input select
Number	8		S	@	40	000~009	

Key Pad	8	S	A	41	000: UP 001: DOWN 002: LEFT 003: RIGHT 004: ENTER 005: INPUT 006: MENU/(EXIT) 007: EXIT	
Tiling-Mode	8	S	Р	50	000: OFF 001: ON	(for video wall)
Tiling- Compensation	8	S	Q	51	000: OFF 001: ON	(for video wall) Bezel width compensation
Tiling-H by V Monitors	8	s	R	52	01x~09x: H 0x1~0x9: V	(for video wall) 1. 2 <sup>nd</sup> digital for H monitors 2. 3 <sup>rd</sup> 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

### 11.3.2. 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: "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 0D ( 6rI000<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 comm and 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)**

Na	ame	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
н	lex	<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> 0x35	<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:

### **Basic function**

	1		Command	Com	nmand	Response Range	Comments
Get Function	Length	ID	Туре	Code (ASCII)	Code (Hex)	(Three ASCII bytes)	Comments
Get-Contrast	8		g	а	61	000 ~ 100	Gets Contrast value
Get-Brightness	8		g	b	62	000 ~ 100	Gets Brightness value
Get-Sharpness	8		g	с	63	000 ~ 100	Gets Sharpness value
Get-Color	8		g	d	64	000 ~ 100	Gets Color value
Get-Tint	8		g	е	65	000 ~ 100	Gets Tint value
Get-Volume	8		g	f	66 000 ~ 100		Gets Volume value
Get-Mute	8		g	g	67	000: OFF (unmuted) 001: ON (muted)	Gets Mute ON/OFF status
Get-Input select	8		g	j	6A	000~	See Set-function table
Get-Power status: ON/STBY	8		g	I	6C	000: STBY 001: ON	
Get-Remote control	8		g	n	6E	000 : Disable 001 : Enable 002 : Pass through	
Get-Power Lock	8		g	ο	6F	000 : Unlock 001 : Lock	
Get-Button Lock	8		g	р	70	000 : Unlock 001 : Lock	
Get-Menu Lock	8		g	q	71	000 : Unlock 001 : Lock	
Get-Tiling Mode	8		g	v	76	000 : OFF 001 : ON	
Get-Tiling Compensation	8		g	w	77	000 : OFF 001 : ON	
Get-Tiling H by V monitors	8		g	x	78	01x~09x: H monitors 0x1~0x9 : V monitors	1. 2 <sup>nd</sup> digital for H monitors 2.3 <sup>rd</sup> digital for V monitors
Get-Tiling Position	8		g	у	79	000 : OFF 001~025	
Get-ACK	8		g	z	7A	000	This command is used to test the communication link.
Get-Thermal	8		g	0	30	000~100: 0~+100 deg C -01~-99: -1~-99 deg C	For specific models only
Get-Power on/ off log	8		g	1	31	000 (See below note)	For specific models only
Get-Date	8		g	2	32	000 (See the Set-Date command)	For specific models only
Get- Time	8		g	3	33	000 (See the Set-Time command)	For specific models only

### Optional function

Get Function	Length	ngth ID Command		Con	nmand	Response Range	Comments
			(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-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 Compensation	8	g	w	77	000: OFF 001: ON	(for Video wall) Bezel width compensation
Get-Tiling H by V monitors	8	g	х	78	01x~09x: H monitors 0x1~0x9: V monitors	(for Video wall) 1. 2 <sup>nd</sup> digital for H monitors 2. 3 <sup>rd</sup> digital for V monitors
Get-Tiling position	8	g	У	79	000: OFF 001~025	(for Video wall) Copy the screen of Position# to identified 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
Get-RS232 version	8	g	6	36	001~	Version 0.0.1~9.9.9

### 11.3.3. Remote Control Pass-through mode

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

### **IR Pass Through-Function format**

### Reply: (Command Type="p")

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

### Example1: Remote Control pass-through when "VOL+" key is pressed for TV-05 Send (Hex Format)

Name	Length	ID	Command Type	Command	Value1	CR
Hex	<u>0x36</u>	<u>0x30</u> <u>0x35</u>	<u>0x70</u>	<u>0x31</u>	<u>0x30</u>	<u>0x0D</u>

Кеу	Code (HEX)
1	01
2	02
3	03
3 4	04
5	05
5 6	06
7	07
8	08
9	09
0	0A
-	0B
RECALL (LAST)	0C
INFO (DISPLAY)	0D
	0E
ASPECT (ZOOM, SIZE)	0F
VOLUME UP (+)	10
VOLUME DOWN (-)	11
MUTE	12
CHANNEL/PAGE UP (+)/	40
BRIGHTNESS+	13
CHANNEL/PAGE DOWN (-)/	4.4
BRIGHTNESS-	14
POWER	15
SOURCES (INPUTS)	16
	17
	18
SLEEP	19
MENU	1A
UP	1B
DOWN	1C
LEFT (-)	1D
RIGHT (+)	1E
OK (ENTER, SET)	1F
EXIT	20
	21
	22
	23
	24
	25
	26
	27
	28
	29
	2A
	2B
RED  (F1)	2C
GREEN ■ (F2)	2D
YELLOW = (F3) BLUE = (F4)	2E
	2F

### NOTE:

- 1. This IR-pass-through code is different from the RCU key code.
- 2. Special control sequence for POWER key under IR-pass through mode.
  - 2-1. When TV/DS is OFF and receives the IR POWER code: TV/DS will turn itself on, then forward the POWER code to the host via RS232.
  - 2-2. When TV/DS is ON and receives the IR POWER code: TV/DS will forward the POWER code to the host via RS232, then turn off itself.
  - 2-3. When SET-POWER LOCK is enabled, the TV/DS 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.

### 12. 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
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.viewsonic.com.sg	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<sup>®</sup> LCD Commercial Display

### What the warranty covers:

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

#### 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:

- 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<sup>®</sup> LCD Commercial Display

#### What the warranty covers:

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

#### 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:

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.
- 5.
- 6.
- 7.

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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, Corpo	prativo 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:	Villahermosa:			
Distribuciones y Servicios Computacionales SA de CV.	Compumantenimietnos Garantizados, S.A. de C.V.			
Calle Juarez 284 local 2	AV. GREGORIO MENDEZ #1504			
Col. Bugambilias C.P: 83140	COL, FLORIDA C.P. 86040			
Tel: 01-66-22-14-9005	Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09			
E-Mail: disc2@hmo.megared.net.mx	E-Mail: compumantenimientos@prodigy.net.mx			
Puebla, Pue. (Matriz):	Veracruz, Ver.:			
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72160 PUEBLA, PUE.	ENTRE PINZÓN Y ALVARADO			
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E-Mail: datos@puebla.megared.net.mx	Tel: 01-22-91-00-31-67			
	E-Mail: gacosta@qplus.com.mx			
Chihuahua	Cuernavaca			
Soluciones Globales en Computación	Compusupport de Cuernavaca SA de CV			
C. Magisterio # 3321 Col. Magisterial	Francisco Leyva # 178 Col. Miguel Hidalgo			
Chihuahua, Chih.	C.P. 62040, Cuernavaca Morelos			
Tel: 4136954	Tel: 01 777 3180579 / 01 777 3124014			
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	E-Mail: mmiranda@servicrece.com			
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	Tel: 8129-5103			
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