# Video Wall Display


## *User's Manual*

24/7 usage

**HD** high definition

multiple inputs

wide viewing angle

eco-friendly power timer

landscape or portrait

temperature control
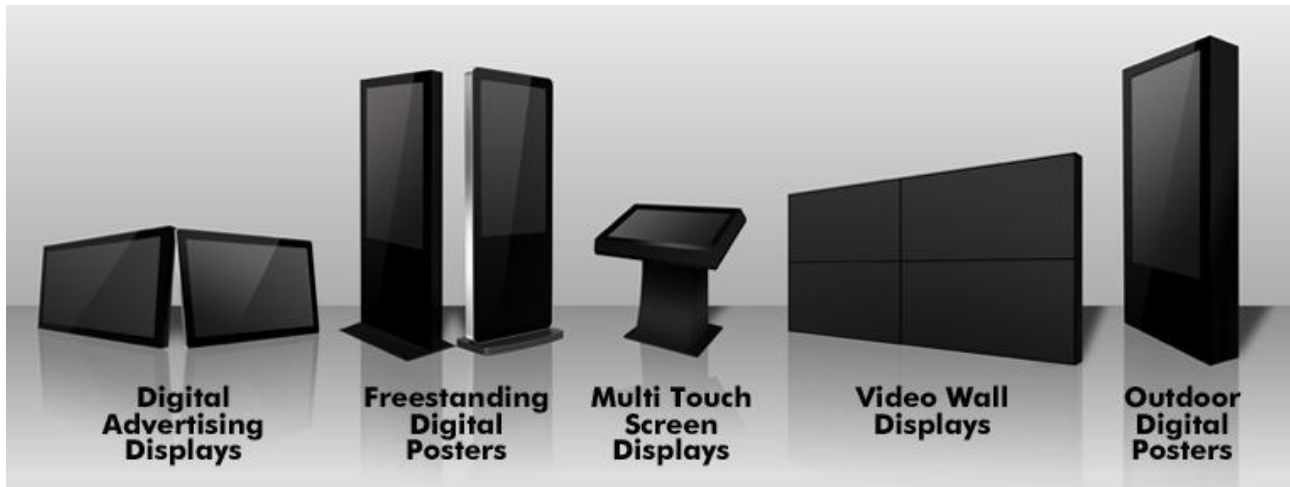
image, video & music

automatic tiling

high brightness

# Our Full Product Range

# Safety Instructions

- Please handle the display with <u>extreme</u> care, significant impact will damage the LCD panel.

- The display should be moved by no less than two persons at any time to ensure safe handling.

- Please keep the display away from any heat sources. Place the display in a stable and well-ventilated place.

- Please handle with care as product contains glass.

- The holes or openings on the display are designed for ventilation. Do not cover or block the ventilation holes or openings with any objects.

- Remove protective covering from the screen before you use the display.

- Shut off the power supply before cleaning. Use a soft lint-free cloth instead of a tissue to wipe the screen.

- Do not attempt to repair this product yourself! Improper disassembly of the product may invalidate the warranty and lead to possible danger

- If you have a problem that cannot be solved using the "Troubleshooting" guidelines, please contact your supplier.

# Contents:

# Table of Figures

# 1. Introduction

Congratulations on your purchase of our product. Please read carefully and follow all instructions in the manual before first use.

The product should not be exposed to liquids dripping or splashing and no objects filled with liquids, such as vases, should be placed on the product.

For user convenience, a number of operations can be performed through the remote control.

**Attention:**

1. Do not change any default setting when it is unnecessary.

2. Keep the product far away from water during installation and use.

## 1.1 Box Contents

1 x Video Wall Display.

1 x Power Cable.

1 x VGA/DVI Cable.

1 x CD (User Manual).

1 x Remote Control.

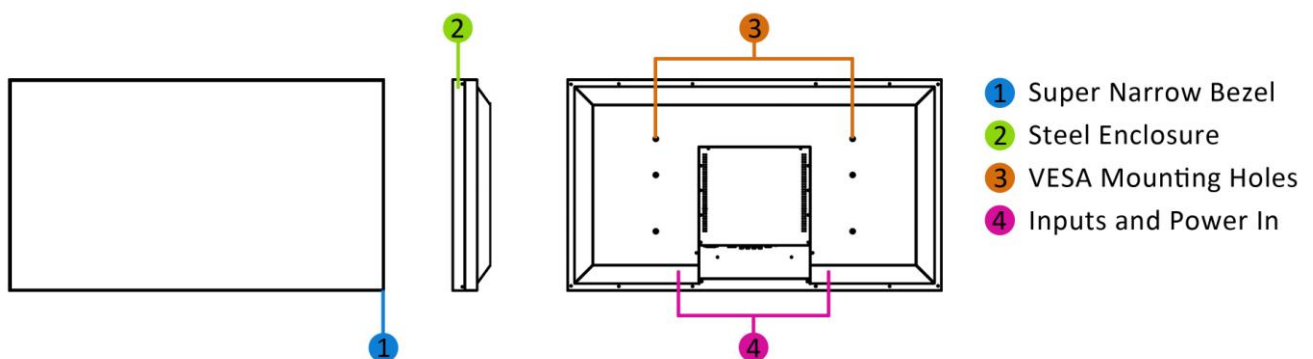1 x Serial Control Box (with Cat 5 cable).

## 1.2 Product Overview



1. Super Narrow Bezel
2. Steel Enclosure
3. VESA Mounting Holes
4. Inputs and Power In

**Figure 1 Product Overview**

## 1.3 Serial Control Box

### 1.3.1   Connection to the screen

Before using the Remote Control the Serial Control Box (with the remote's infrared sensor in it) must be connected to the screen.
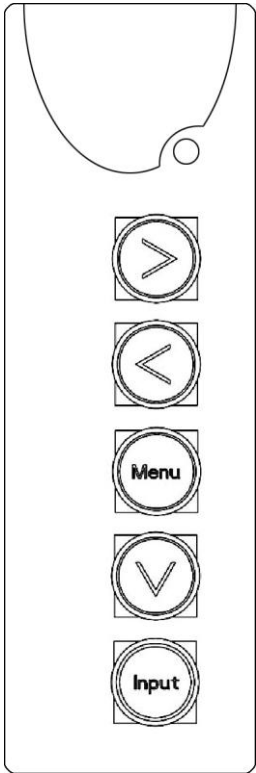


**Figure 2 Serial Control Box to Screen Connection**

Unless Remote Control is faulty it is recommended that you do not attempt to change any settings with the Serial Control Box, only use it as a sensor for the main Remote Control.

Once all required changes have been made the Serial Control Box can be disconnected or hidden.

## 1.3.2 Serial Control Box Overview



| Button | Function | |
|--------|----------|---|
| → | Right navigation button | adjust volume |
| ← | Left navigation button | select in OSD menu |
| | | select signals input |
| | | adjust values |
| MENU | Open/close OSD menu or return to previous menu | |
| ↓ | Select signal input | |
| INPUT | Signal input select | |

## 1.4 Remote Control



| Button | Function |
|---|---|
| Power | Power ON or OFF |
| Mute | Disable audio |
| ❶-❾ | Numbers for time input |
| -/-- | Input multiple numbers |
| MODE | Signal input select |
| ← | Left navigation button |
| ↑ | Up navigation button |
| → | Right navigation button |
| ↓ | Down navigation button |
| OK | Confirm selection |
| MENU | Open/close menu settings |

## 1.5 Replacing the Remote Control Battery

1. Open the battery cover

2. Take out the battery box in the right direction as shown in the picture below

3. Remove the used battery

4. Insert the new battery with its terminals corresponding to the indicator

5. Put the cover back in
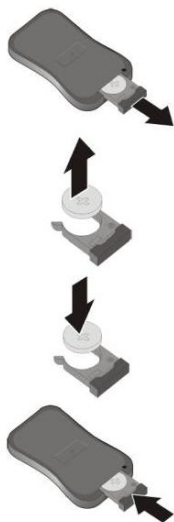
## 1.6 Menu Operation

The Menu includes the following sub-menus: Picture, Sound, System, Function and Geometry.

First, ensure that the Serial Control Box is connected to the screen via the CAT5 port (as shown).



**Figure 3 Serial Control Box to Screen Connection**

When using the Remote Control please ensure that it is no more than 20cm away from the sensor on the Serial Control Box.   This close proximity control feature is to ensure that you only control the desired device if there are others in its vicinity.   Press "MENU" to enter Main Menu, press ←→ to select the right sub-menu and ↑↓ to select the desired item, press "OK" to confirm selection.   Press → where instructed to confirm section.   Press "menu" at any time to go back or exit.

| PICTURE | SOUND | SYSTEM | FUNCTION | GEOMETRY |
|---------|-------|--------|----------|----------|

## 1.6.1  Picture



Here you can set contrast, brightness, colour temperature, scale and picture mode. As with all settings these can be adjusted and changed back to default at any time. The default settings are shown in the table below:

| | | |
|---|---|---|
| CONTRAST | 50 | |
| BRIGHTNESS | 50 | |
| COLOR TEMP | <NORMAL> | or WARM/COOL/USER DEFINED |
| SCALE | <NORMAL> | or CENTER |
| AUTO | | |
| PICTURE MODE | <STANDARD> | or DYNAMIC/SOFT/USER DEFINED |

## 1.6.2  Sound
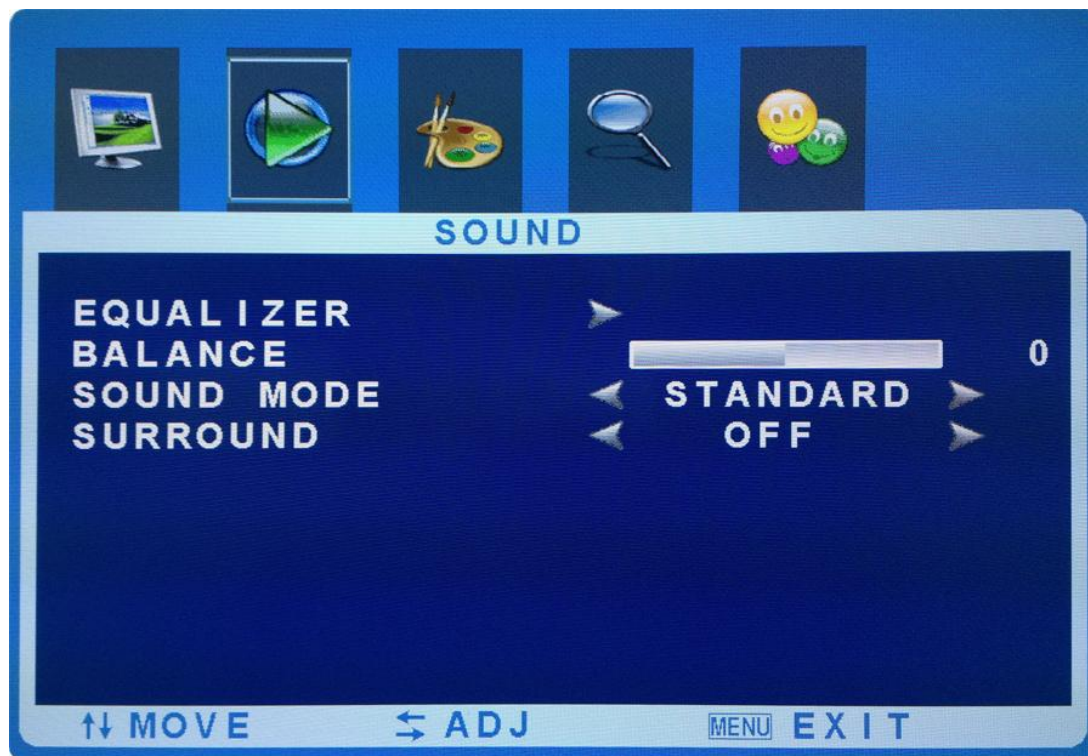


Here you can set equalizer settings, balance, sound mode, surround. As with all settings these can be adjusted and changed back to default at any time. The default settings are shown in the table below:

| EQUALIZER | 120 | 50 |
|-----------|-----|-----|
|  | 500 | 50 |
|  | 1.5K | 50 |
|  | 5K | 50 |
|  | 10K | 50 |
| BALANCE | 0 | (LEFT/RIGHT SOUND DISTRIBUTION) |
| SOUND MODE | <USER> | or STANDARD/MOVIE/MUSIC |
| SURROUND | <OFF> | or ON |

## 1.6.3  System



Here you can change all of the On Screen Display (OSD) settings such as menu brightness and how long it displays for.    This sub-menu also includes the fan settings so you can set what temperature the internal fan activates in the "FAN ACTIVE" setting.

| OSD LANGUAGE | <ENGLISH> | or 中文 |
|---|---|---|
| OSD H-POSITION | 50 | (HORRIZONTAL POSITION OF THE MENU) |
| OSD V-POSITION | 50 | (VERTICAL POSITION OF THE MENU) |
| OSD DURATION | 15 | (NUMBER OF SECONDS MENU WILL DISPLAY FOR) |
| OSD HALFTONE | 50 | (BRIGHTNESS OF THE MENU) |
| TEMPERATURE | XX | (INTERAL TEMPERATURE) |
| FAN ACTIVE | 30 | (TEMPERATURE AT WHICH FANS BECOME ACTIVE) |
| RESET | > | (RESETS ALL SETTINGS BACK TO DEFUALT) |

## 1.6.4 Function



Here you can set the power timer settings along with the video wall configuration. The default settings for a single unit are shown in the table below:

| TIMER | CURRENT TIME – XX.XX | <OFF> or ONCE/EVERYDAY |
|---|---|---|
| | TURN OFF TIME – 00.00 | |
| | TURN ON TIME – 00.00 | |
| CURRENT X | 1 | (VIDEO WALL FUNCTION) |
| CURRENT Y | 1 | |
| TOTAL X | 1 | |
| TOTAL Y | 1 | |
| LEFT EDGE | 0 | |
| UP EDGE | 0 | |
| RIGHT EDGE | 0 | |
| DOWN EDGE | 0 | |

If you want to use your screen as part of a video wall you must give values to the X and Y settings. The following is an example of a 3x3 video wall:

| CURRENT X | 1 |
|---|---|
| CURRENT Y | 1 |
| TOTAL X | 3 |
| TOTAL Y | 3 |
| LEFT EDGE | 0 |
| UP EDGE | 0 |
| RIGHT EDGE | 0 |
| DOWN EDGE | 0 |

| | 1 | 2 | 3 →X |
|---|---|---|---|
| 1 | **1,1** | 2,1 | 3,1 |
| 2 | 1,2 | 2,2 | 3,2 |
| 3 ↓ Y | 1,3 | 2,3 | 3,3 |

| CURRENT X | 2 |
|---|---|
| CURRENT Y | 1 |
| TOTAL X | 3 |
| TOTAL Y | 3 |
| LEFT EDGE | 0 |
| UP EDGE | 0 |
| RIGHT EDGE | 0 |
| DOWN EDGE | 0 |

| | 1 | 2 | 3 →X |
|---|---|---|---|
| 1 | 1,1 | **2,1** | 3,1 |
| 2 | 1,2 | 2,2 | 3,2 |
| 3 ↓ Y | 1,3 | 2,3 | 3,3 |

| CURRENT X | 3 |
|---|---|
| CURRENT Y | 1 |
| TOTAL X | 3 |
| TOTAL Y | 3 |
| LEFT EDGE | 0 |
| UP EDGE | 0 |
| RIGHT EDGE | 0 |
| DOWN EDGE | 0 |

| | 1 | 2 | 3 →X |
|---|---|---|---|
| 1 | 1,1 | 2,1 | **3,1** |
| 2 | 1,2 | 2,2 | 3,2 |
| 3 ↓ Y | 1,3 | 2,3 | 3,3 |

| | | |
|---|---|---|
| **CURRENT X** | **1** | |
| **CURRENT Y** | **2** | |
| **TOTAL X** | **3** | |
| **TOTAL Y** | **3** | |
| LEFT EDGE | 0 | |
| UP EDGE | 0 | |
| RIGHT EDGE | 0 | |
| DOWN EDGE | 0 | |



…and so on.

The "EDGE" settings are for fine calibration of a video wall. This setting is to eliminate any black edges that you may have. In most cases you should not need to use this function.

- "LEFT EDGE" stretches the overall display horizontally from the left hand side.
- "UP EDGE" stretches the overall display vertically from above.
- "RIGHT EDGE" stretches the overall display horizontally from the right hand side.
- "DOWN EDGE" stretches the overall display horizontally from below.

Note: This function is only available when the display is being used as part of a video wall.

## 1.6.5  Geometry
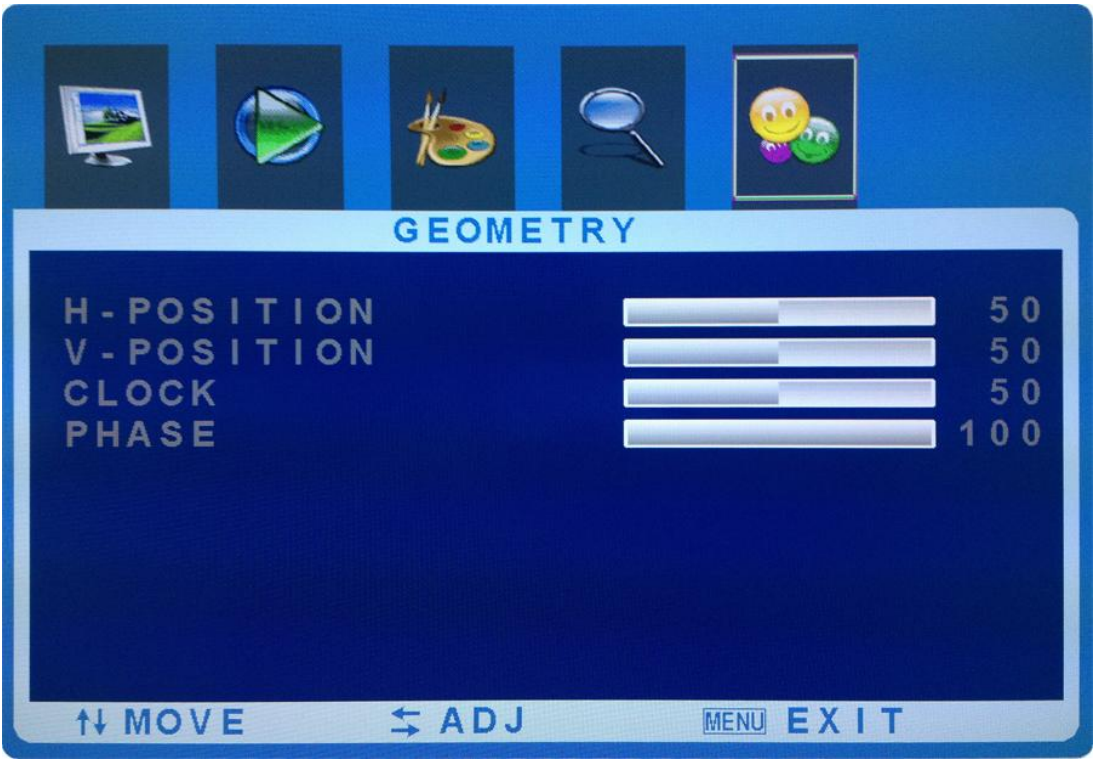


This section should be inaccessible.

| H-POSTION |
|-----------|
| V-POSTION |
| CLOCK |
| PHASE |

## 1.7 Switching between inputs

One crucial feature that does not appear on the Main Menu is selecting the input source.    This is done by first pressing "MODE" and then scrolling down to the desired input source and select by pressing "→".

| |
|---|
| PC (VGA) |
| HDMI |
| DVI |
| AV1 |
| AV2 |
| YPBPR |

## 1.8 Inputs

VGA – Video Graphics Array Signal Input

HDMI – High Definition Multimedia Interface Signal Input

DVI – Digital Video Interface

YPbPr – Component Signal Input

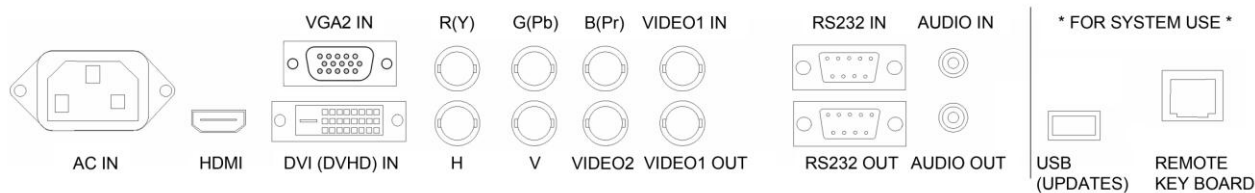Video In (AV) – Composite Signal Input (X2)



**Figure 4 Screen Inputs**

# 2. FAQ and Troubleshooting

## 2.1 How do I create content for my video wall?

If the output size for your digital signage media player is 1920x1080 pixels (16:9 ratio), and you have a video wall configuration that has another aspect ratio you must squash your video content to fit the 16:9 ratio.

The following example is for a 1x3 video wall configuration.
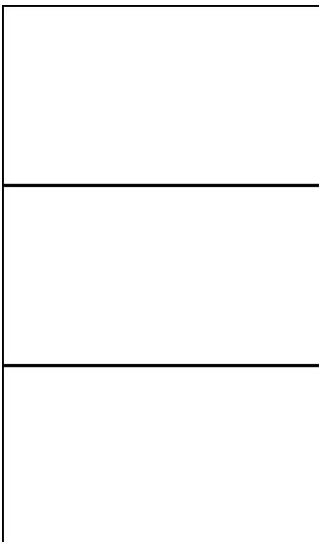
The overall aspect ratio for this video wall is 16:27 (1920x3240 pixels), however the media player can still only output a 16:9 (1920x1080) video.

Step 1 of 3. First create your content based on the overall aspect ratio (16:27).



Step 2 of 3. Now you must resize the video so it has an aspect ratio of 16:9, i.e. resize the long side of 3240 pixels to 1080 pixels.   The video that you send to the media player must be 1920x1080 pixels.



Step 3 of 3. This video can now be processed by the media player and when sent to a 1x3 configuration video wall will look like this.