LED Multi-Screen SDI Video Wall - ID# 927

Operation Manual

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Introduction

The LED Multi-Screen SDI Video Wall allows SDI sources to be shown on multiple 1366x768 LED panels. Controlled using RS-232 and an IR remote this video wall has a thin bezel that is just 6mm wide, which allows you to clearly see your desired video. Including HDMI, SDI and VGA input sources in multiple combinations like 2x2 (four displays), 3x3 (nine displays) and 4x4 (16 displays) this system supports input resolutions from 480i/p to 720p & 1080i/p. Thanks to RS-232 control advanced and professional users can control the displays and their settings through a PC/Notebook, this system also includes features like SDI loop through and split screen. From wide 178* viewing angles (horizontal and vertical lines) and supporting individual picture settings as well as O/U scan adjustment on this video wall is a great way to show SDI sources to a large audience.
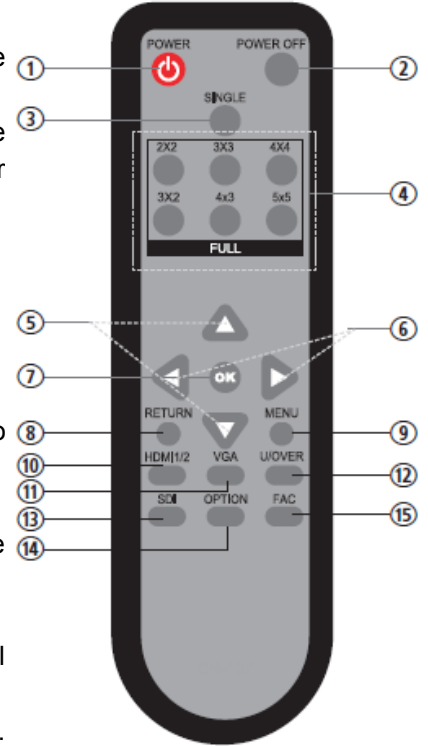
Features

- 47" LED Display
- Display Resolution = 1366 x 768
- Response Time = 12ms
- Brightness = 700cd/m2
- Contrast Ratio = 1400 : 1
- Viewing Angle = 178° horizontal / vertical
- Input = VGA x 1, IR x 1, HDMI x 2, RS-232 x 2, SDI x 2
- HDTV Video Timings = 480i/p, 720p, 1080i/p
- SDI Video Timings = 480i / 576i / HD-SDI-720p / 1080i / 3G-SDI-1080p
- VGA Video Timings = Up to SXGA (1280 x 1024) and 1920 x 1080
- Power = AC 100~240V AC / 5V(Max) 50~60Hz
- Power Consumption = 140W / 1W Standby
- Optional Accessories = Wall Mount Gear, Display Stand
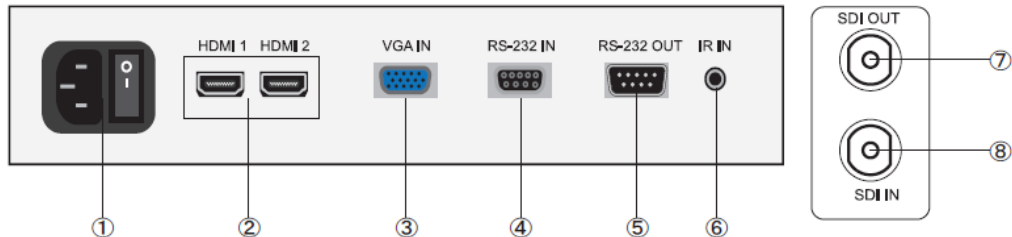
Applications

- Support 2x2, 3x3, 4x4, and 5x5 video wall settings
- Smart control over RS-232 / UART channel, set up on one single screen to set up all screens
- Support M x N such as 2 x 3 or 1 x 3 video wall settings
- Built-in frame-shifting feature for the optimization of video display
- Supper-slim frame: 4.2+2.7mm
- Support OSD (On Screen Display) operation
- Support high definition SDI video interface
- Versatile applications: department stores, chain stores, stock broker lobbies, airport, train / bus stations, and digital signage installation

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Remote Control

① **POWER:** Turn on the power of the monitor.

② **POWER OFF:** Turn off the power of the monitor.

③ **SINGLE:** Press this button to switch the output image to single display per monitor.

④ **2x2/3x3/4x4/5x5:** Press these buttons to switch the output image to 2x2/3x3/4x/3x2/4x3 or 5x5 displays per image.

⑤ **▲/▼:** Adjust or select OSD menu up and down.

⑥ **◄/►:** Adjust or select OSD menu left and right.

⑦ **OK:** Press this button to confirm the selection.

⑧ **RETURN:** Exit the OSD menu or the selection.

⑨ **MENU:** Display the OSD (On Screen Display) menu.

⑩ **HDMI1/2:** Press this hot key to switch the input to HDMI I/2.

⑪ **VGA:** Press this hot key to switch the input to VGA.

⑫ **U/OVER:** Press this key to adjust the screen when the image is underscan or overscan.

⑬ **SDI:** Press this hot key to switch the input to SDI.

⑭ **OPTION:** Press this key to switch to the special setting of the display image set by the factory design.

⑮ **FAC:** Press this key to enter into the factory mode. This is not a normal entry therefore, do not press this key unless it is advised and guide by the special technician.
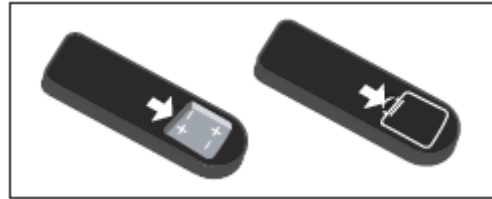
Signal Terminals Input/Output

① **AC IN:** Connect the power cord with the power adaptor included in the package and plug it into the wall outlet for the power supply.

② **HDMI IN 1/2:** Connect the HDMI cable from DVD/Blu-ray player for signal input.

③ **VGA IN:** Connect the D-Sub 15pin cable from the PC/NB device or with RGB to D-Sub adaptor from the AV device for video signal input.

④ **RS-232 IN:** Connect the D-Sub 9pin cable from PC/NB device for RS-232 control.

⑤ **RS-232 OUT:** Connect the D-Sub 9pin cable to the next video/TV wall panel's(suggest using the same family type) RS-232 IN for unit signal distribution and displaying.

⑥ **IR in:** Connect the IR blaster included in the package for receiving remote control's signal of the device.

⑦ **SDI OUT:** Connect the SDI cable to the next video/TV wall panel's(suggest using the same family type) SDI IN for unit signal distribution and displaying.

⑧ **SDI IN:** Connect the SDI cable from the SDI source equipment for signal input.

Refer to the owner's manual of any external equipment to be connected. When connecting any external equipment, do not connect any AC power cord to wall outlets until all other connections are completed.

1. Connect all AC power sources.

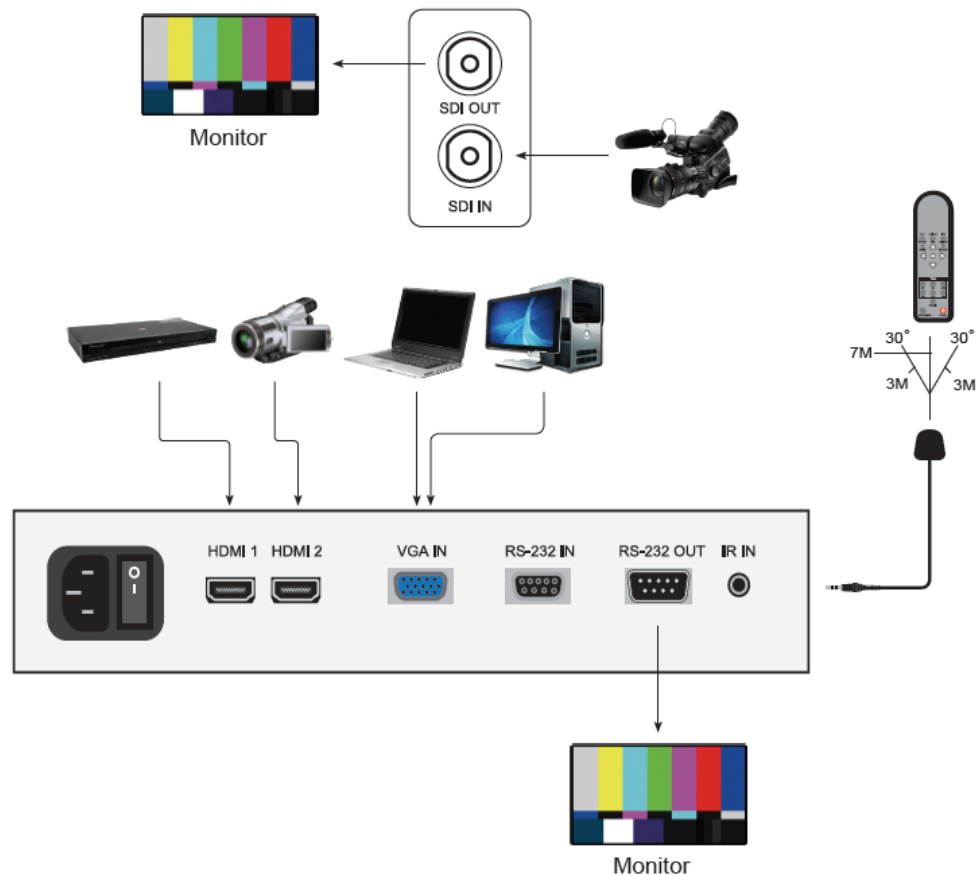2. Installing the AAA size batteries in your remote control.

Step 1. Slide the back cover up to open the battery compartment of the remote control.

Step 2. Insert two AAA size batteries. Make sure to match the (+) and (-) ends of the batteries with the (+) and (-) ends indicated in the battery compartment.
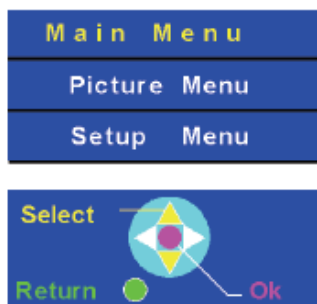
Step 3. Slide the cover back into place.

Do not use caustic cleaners (Porcelain, stainless steel, toilet, or oven cleaner etc.) on the remote, as it may suffer damage.

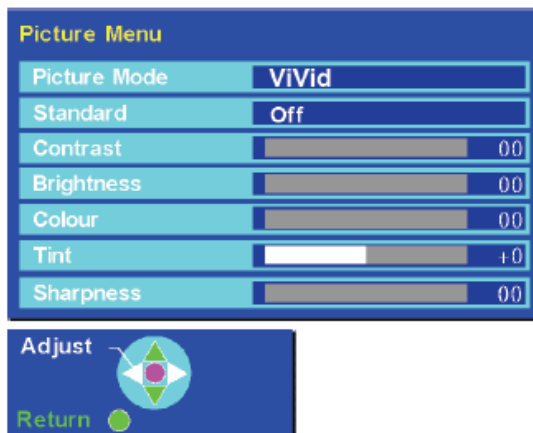3. Press the [POWER] button on the remote to turn on the LED Display.

Monitor

SDI OUT

SDI IN

30°   30°

7M

3M   3M

HDMI 1   HDMI 2   VGA IN   RS-232 IN   RS-232 OUT   IR IN

Monitor

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Press [MENU].
Press [▲ / ▼] to highlight an option.
Press [◄ / ►] to adjust.
Press [OK] to confirm the selection.

Main Menu

Picture Menu

Setup Menu

Select

Return — Ok

Picture Menu

Press [▲ / ▼] to highlight an option.
Press [◄ / ►] to adjust.
Press [OK] to confirm the selection.
Press [EXIT] to exit menu.

Picture Menu

Picture Mode	ViVid
Standard	Off
Contrast	00
Brightness	00
Colour	00
Tint	+0
Sharpness	00

Adjust

Return

Option	Description
Picture Mode	To adjust picture mode to: Vivid / Normal / Cinema / User
Standard	ON/OFF, when select to ON the system will go back to initial setup
Colour	To adjust the color saturation
Tint	To adjust picture hue (NTSC only)
Sharpness	Sharpen of soften the picture
Contrast	To increase or decrease picture contrast.
Brightness	To adjust for brighten or darken the picture.

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Setup Menu
Press [▲ / ▼] to highlight an option.
Press [◄ / ►] to adjust.
Press [OK] to confirm the selection.
Press [EXIT] to exit menu.

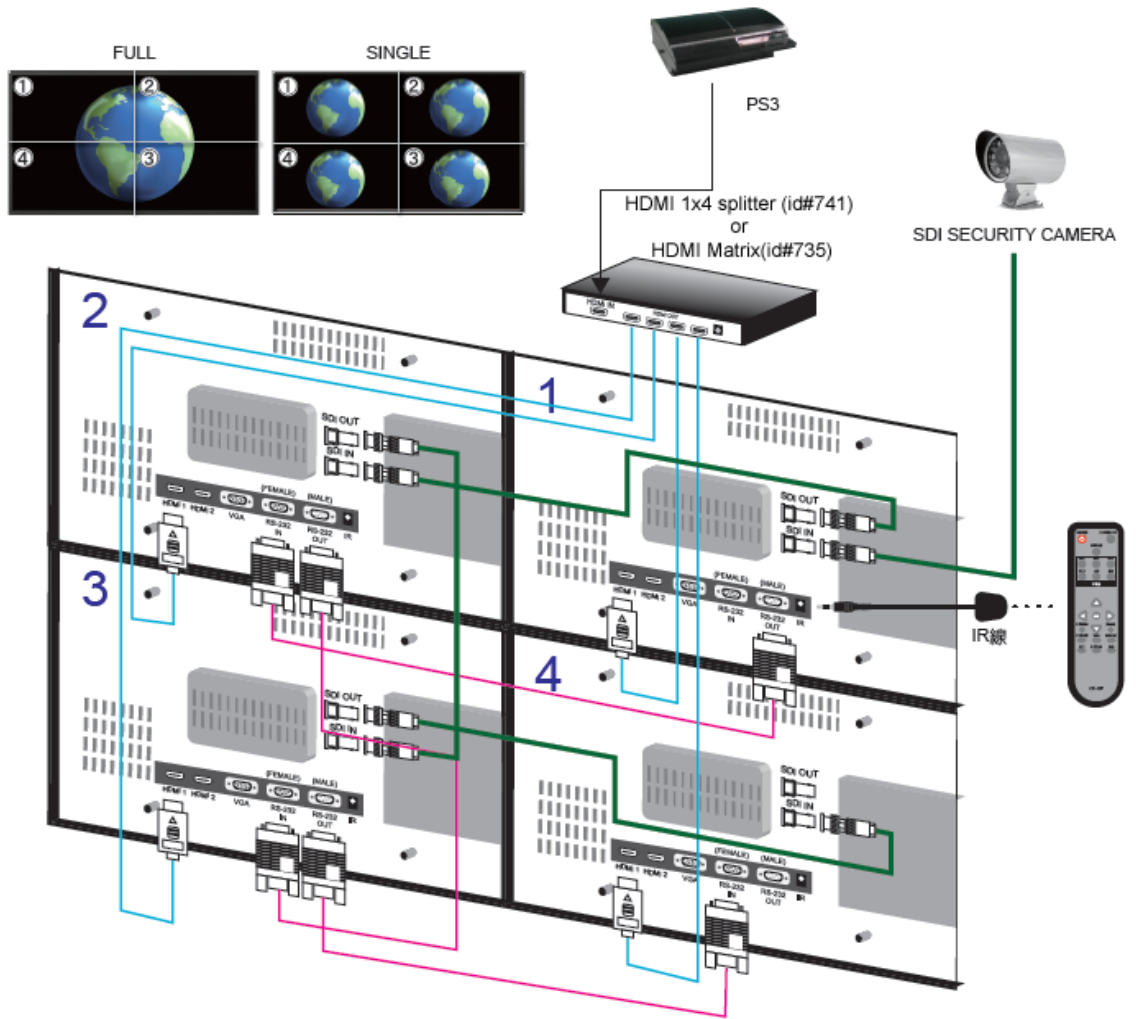| Option	Description
Language	Select the OSD display language (English, Traditional Chinese and Simplify Chinese).
Standard	Set it to ON will allow system to set the setup menu into the default value as indicated in the in the above diagram.
H Postion Start	To set the total value of the horizontal value of the video/TV wall. This function is made to adjust for the standard monitor screen.
V Position Start	To set the total value of the vertical value of the video/TV wall. This function is made to adjust for the wide monitor screen.
H Zoom	To set the total value of the horizontal zoom in and zoo out size of the video/TV wall. This function is made to enlarge the image or to shrink the image.
V Zoom	To increase or decrease picture contrast. To set the total value of the vertical zoom in and zoo out size of the video/TV wall. This function is made to enlarge the image or to shrink the image.
H Blanking Edit	This function is to set the total value of the horizontal value of the banking area of the video/TV wall. This function is made to adjust the image according to display's frame.
V Blanking Edit	This function is to set the total value of the vertical value of the banking area of the video/TV wall. This function is made to adjust the image according to display's frame.
TV Option Width	This function is to set the numbers of the TV/display that is to be on a horizontal line of the TV wall.
TV Option Height	This function is to set the numbers of the TV/display that is to be on a vertical line of the TV wall.
Back Light	This function is to set the back light of the TV panel from the lowest figure of 0 with the brightest light to the highest figure of 230 with darkest light.

RS-232 Protocol Pin Definition

RS-232 IN			RS-232 OUT	
Pin 1	NC		Pin 1	NC
Pin 2	TxD		Pin 2	RxD
Pin 3	RxD		Pin 3	TxD
Pin 4	NC		Pin 4	NC
Pin 5	GND	→	Pin 5	GND
Pin 6	NC		Pin 6	NC
Pin 7	Connect to Pin 8	←	Pin 7	Connect to Pin 8
Pin 8	Connect to Pin 7		Pin 8	Connect to Pin 7
Pin 9	NC		Pin 9	NC

Baud Rate: 19200bps
Data bit: 8 bits
Parity: None
Stop Bit: 1 bit
Flow Control: None

Command

COMMAND	ACTION
0x23 0x53 0x30 0x30 0x31 0x23	POWER ON
0x23 0x53 0x30 0x30 0x30 0x23	POWER OFF
0x23 0x43 0x30 0x30 0x30 0x23	UNDER SCAN
0x23 0x43 0x30 0x30 0x31 0x23	OVER SCAN
0x23 0x43 0x52 0x11 0x00 0x23	SINGLE
0x23 0x43 0x52 0x22 0x00 0x23	2x2
0x23 0x43 0x52 0x33 0x00 0x23	3x3
0x23 0x43 0x52 0x44 0x00 0x23	4x4
0x23 0x43 0x52 0x55 0x00 0x23	5x5
0x23 0x43 0x52 0x32 0x00 0x23	3x2
0x23 0x43 0x52 0x43 0x00 0x23	4x3
0xEF 0x05 0xD7 0xC0 0x22 0x07 0xEE	Change to HDMI
0xEF 0x05 0xD0 0xC0 0x22 0x00 0xEE	Change to PC

Prepare the TV / Panel

Keep all the parts properly for future installation purpose.

1.Separate the fixed rack from both side
- To avoid scratch or damage of the panel, it is suggested to place the panel on a flat table that is covered with soft cotton pad.
- As show in the diagram 1, remove the screws (x4) from the fixed rack (x2) of both side.
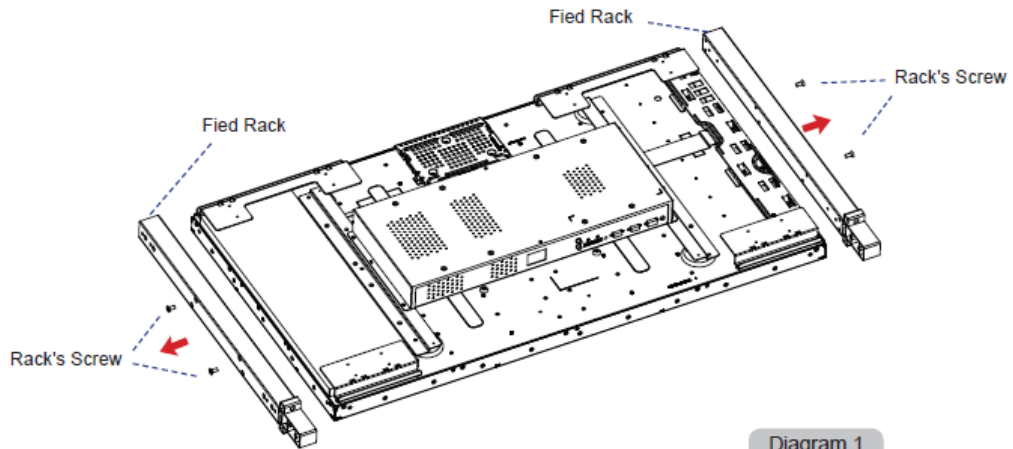
Fied Rack

Rack's Screw

Fied Rack

Rack's Screw

Diagram 1

As show in the picture is for reference only, please see the actual goods for standard.

2. Separate the support rack from the fixed rack
- As show in the diagram 2, remove the support rack's screw (x4) from the fixed rack (x2) of both side.

3. Fix the fixed rack on
- Keep the support rack and all the removed screws properly for future installation purpose and fix the fi ed rack on the back of the panel as to diagram 3 show with the screws included in the panel's parts package.
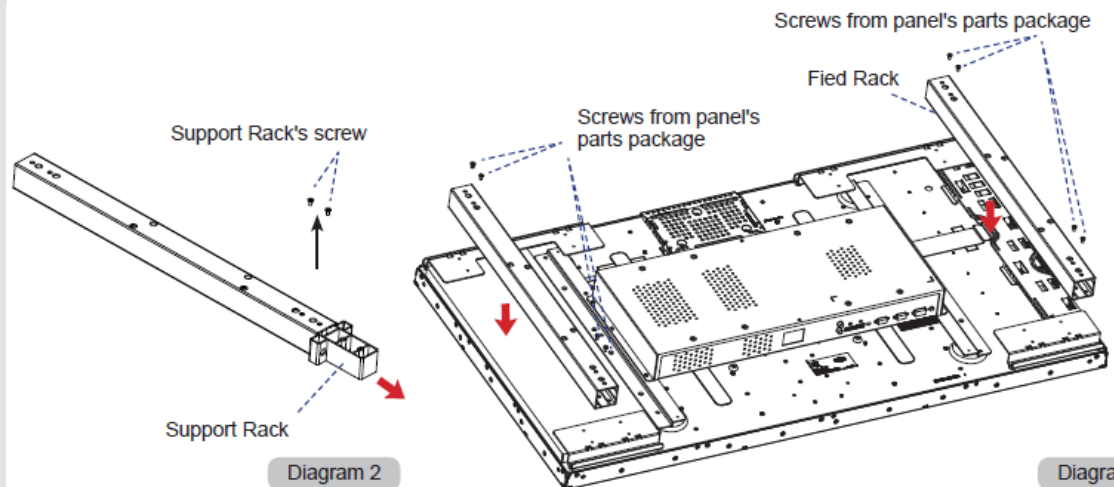
Screws from panel's parts package

Fied Rack

Support Rack's screw

Screws from panel's parts package

Support Rack

Diagram 2

Diagram 3

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Specifications

Screen Size (inches)	47SDI
Aspect Ratio	16:9
Contrast Ratio	1400:1
Viewing angle range	178°
Panel Resolution	1366*768
Response Time (ms)	12

VIDEO

HDMI Compatibility	480p/720p/1080i/1080p
HDTV Compatibility	Up to 1080P
PC Resolution	Up to 1920x1080@60
Progressive Scan	Yes
Video Noise Reduction	Yes
3D-Y/C Digital Comb Filter	Yes
Color Purity Optimizer	
(3D Color Management)	Yes
Motion Pattern Noise Reduction	Yes

INPUT/OUTPUT

HDMI Interface	2 rear
PC Input (for PC)	1 rear
SDI	2 rear (1 in, 1 out)

GENERAL

Power Supply	100V~240V
Power Consumption	(W)180
On Screen Display Languages	Chinese, English
Dimension (H x W x D) mm	1046 x 591 x 115
Net Weight (KG)	20.4
Gross Weight (KG)	21
Accessory Power Cord	1
Remote Control with Batteries	Yes
User Manual	Yes