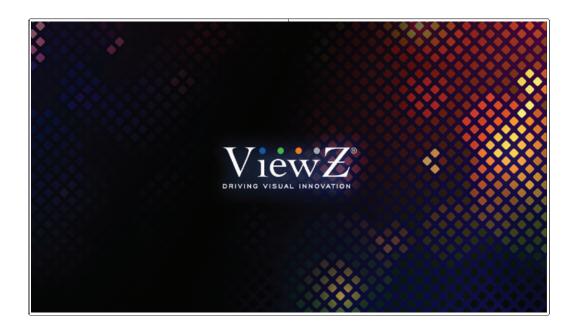
VZ-UNBS SERIES 49" and 55" PROFESSIONAL

LED CCTV VIDEO WALL MONITOR USER MANUAL





Please read this manual thoroughly before use, and keep it handy for future reference.



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SAFETY INSTRUCTIONS

Important Safety Instructions

1. Read all warnings.

- 2. Follow all instructions to ensure longevity of monitor.
- 3. Do not place the monitor near water.
- 4. Clean only with dry cloth.
- 5. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 6. Do not install near any heat sources such as radiators, heat registers, stoves, or other heat generating devices.
- 7. Do not override the safety purpose of the polarized or grounding-type plug.
- 8. A polarized plug has two blades with one wider than the other.
- 9. A grounding type plug has two blades and a third grounding prong.
- 10. The wide blade or the third prong is provided for your safety.
- 11. If the provided plug does not fit into your outlet, consult with electrician for replacement of the outlet.
- 12. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where it connects to the monitor.
- 13. Only use attachment/accessories specified by the manufacturer.
- 14. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the monitor. When a cart is used, use caution when moving the cart & monitor in combination to avoid injuries.
- 15. Unplug the monitor during lightning storms or when unused for long periods of time.
- 16. Refer all servicing to qualified service personnel. Servicing is required when the monitor has been damaged in any way.



The monitor shall not be exposed to dripping or splashing and objects containing liquids such as vases shall be placed near the monitor.

The monitor should have ample distance (e.g. 10cm) from the wall for sufficient ventilation.



SAFETY INSTRUCTIONS

Important Safety Instructions

Mark Indication and Substance



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK,
DO NOT REMOVE COVER (OR BACK). NO USER
SERVICEABLE PARTS INSIDE. REFER SERVICING TO
QUALIFIED SERVICE PERSONNEL



This symbol is intended to alert the user to the presence of uninsulated & dangerous voltage within the monitor's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the monitor.

Marning

- Do not use damaged or loose cables and plug.
- Do not pull the plug out by the wire nor touch the plug with wet hands.
- Use only a properly grounded plug and receptacle.
- Do not connect too many extension cords or plugs to one outlet.
- Do not excessively bend the plug and wire.
- Do not disconnect the power cord while it's still plugged into the monitor.
- Do not place any heavy objects on the power cord. Damage to the cord may cause shock or fire.
- Never open the monitor. There are no user-serviceable parts inside and opening will void warranty.
- Removing covers may expose you to dangerous shock hazards or other risks.
- Keep any heating devices away from the power cable and monitor.
- Do not place the monitor near water.
- Do not insert objects of any kind into the monitor's open slots, as they may touch dangerous voltage points.
- Please follow the laws and regulations of your municipality to dispose the monitor properly.
- Do not use the monitor in high temperature, humid, dusty or oily areas.
- Do not install the monitor where it will be exposed to continual vibration.
- Keep the plastic packaging out of children's reach.
- If any damage is detected upon first opening the box, contact agency from which you bought the monitor directly.
- If your monitor does not operate normally in particular, if there is any unusual sound or smell coming from the monitor unplug it immediately and contact an authorized dealer or the service center.



SAFETY INSTRUCTIONS

Important Safety Instructions

A Caution

- If the connector between the plug and the pin is dusty or dirty, clean it properly using a dry cloth.
- Make sure to unplug the power cord before cleaning the monitor.
- Make sure to leave a gap between monitor and wall.
- Do not drop the monitor when moving it.
- Place your monitor in a location with low humidity and minimal dust.
- Install the monitor base on a showcase or shelf so that the end of the base does not protrude from the showcase or shelf.
- Do not place the monitor on an unstable or small surface area.
- Do not install inside a vehicle.
- Disconnect the plug from the outlet during storms or lightning or if it has not been used for a long time.
- Do not try to move the monitor by pulling on the power cord.
- Do not cover the vents on the monitor.
- When moving the monitor, turn off and unplug the power cord. Make sure that all cables, including HDMI cable and cables connected to other devices, are disconnected before moving it.
- Place the monitor out of children's reach as they could damage it by hanging onto it.

Available Temperature & Humidity

Operating Temperature : $14^{\circ}F \sim 149^{\circ}F / -10^{\circ}C \sim 65^{\circ}C$

Operating Humidity: 5 ~ 95% RH

Dot Defect (dead pixel) of TFT

ViewZ monitors are manufactured using high-end semiconductor technology with precision ratings of 99.9% and above. However, it may be the case that certain RGB and white pixels seem darker (or entirely unlit i.e. black).

Modern production methods cannot guarantee an absolute fault-free monitor. To this effect, no LED manufacturer can guarantee a defect free panel. A few isolated pixel or sub-pixel faults are considered tolerable and different policies exist that govern the amount of these tolerable values.

While most pixel faults occur in isolated regions, a cluster of dead pixels or sub-pixels can sometimes form for which a separate ruling applies. A cluster is defined as an area of 5x5 pixels. ViewZ's policy on pixel failure: either as an isolated fault or in the form of a cluster is outlined on the website: www.viewzusa.com



FCC RF INTERFERENCE 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.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio, TV technician for help.
- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment.

Statement

- VESA is the trademark of Video Electronics Standard Association.
- HDMI, HDMI logo and High-Definition Multimedia Interface (high definition multimedia digital interface) are the trademark or registered trademark of HDMI Licensing LLC.

If some company or product trademark is not particularly stated, the use of trademark has been fully recognized. Do not alter, decompile, disassemble, decode or conduct reverse engineering to the software installed in the product, or it can be deemed as breach of the law.



INSTALLATION

Installation Tools

The following tools may be required or recommended.





Protective Eve-wear











Assembly Components - provided

Your ViewZ monitor is shipped with all proper installation hardware and components. If there are parts missing and/or damaged, please stop the installation and contact ViewZ USA at (888)-998-4399.



TFT-LED Monitor (Qty 1)



110V Power Cable (Qty 1), IR Receiver (Qty 1), HDMI Cable (Qty 1)



RJ45 Cable (Qty 1), Converter (RJ45 to RS232) (Qty 1)





User Manual (Qty 1) Remote Controller (Qty 1)

Mounting Options

Your ViewZ monitor is compatible with ViewZ monitor mounts. For more information, please contact ViewZ USA at (888)-998-4399.

Wall Mount

- Part #
- **VZ- WM71** Tilting -10° ~ 0°

 - Universal Mount
 - Load Capacity 165 lbs /75 kg
- Part #
 - **VZ-XMS**



- Tilting Hor. ±3°
 - Ver. 2° ~ +4°
- Universal Mount
- · Load Capacity 154 lbs /70 kg

Ceiling Mount

- Part #
- **VZ- CMKiT-04** Tilting -12° ~ +5°

 - Rotation 360°
 - Universal Mount
 - Load Capacity 110 lbs / 50 kg
- Part # VZ-FSM2x2 • Tilting ±4°



- Universal Mount
- Load Capacity 110 lbs / 50 kg

User Manual



FEATURES

Features

- Creates a seamless display effect in multi-screen splicing
- Supports m rows and n columns $(1 \le m \le 15, 1 \le n \le 15)$ in splicing and 15 x15 at most
- Remote control of RS232 serial port: each unit supports one RS232 input and loop-out
- Integrated multi-channel video signal type HDMI, DVI, DP daisy-chained by HDMI up to 15x15.
- Auto color adjustment guarantees color uniformity in mult-screen splicing with a built-in control unit to make the best adjustment of color
- The built-in picture cutting and compensation function can work with system software to accommodate large screen splicing project
- Industrial cooling fan is equipped for heat dissipation and improved reliability, supporting 24/7 operation
- Supports 8 Lane V-BY-ONE with output resolution of 3840 × 2160 @60Hz
- Using the latest V-BY-ONE driver chip, the peripheral circuit is simpler and the power consumption is lower
- USB firmware upgrade function for easy maintenance and assembly
- Full hardware architecture: no CPU and operating system
- Powerful processing
- Quick start: Less than 8 seconds
- Automatic computer-driven temperature control system with the following settings: on/off/auto/user
- Supports Full HD resolution @ 1920 x 1080
- User-friendly operation.
- Control from external source available via protocol communication (RS-232)

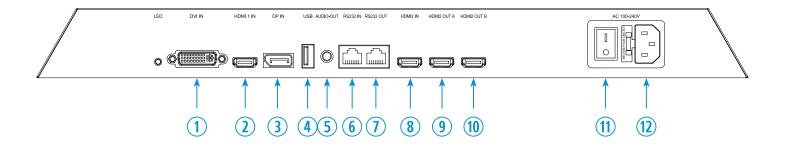
Description

- Before operating the video wall monitor, please make sure you fully understand relevant prerequisites such as
 the specification or limitation of H/W and S/W. ViewZ shall not be responsible for loss, damage or injury caused
 by improper use of products.
- You are not allowed to copy, use, alter or disseminate this manual in whole or in part without prior written consent.
- Any and all product names, model names, labels, or company names used in this manual are the trademarks and registered trademarks of ViewZ.
- If you have any advice or question related to this manual, please contact our dealer, re-seller or our customer service representatives.



Interface Ports

The following image is the description of interface input ports



- 1. DVI-D IN
- 2. HDMI1 IN
- 3. DP IN
- 4. USB For upgrading SW
- 5. AUDIO OUT
- 6. RS232 (RJ-45) IN Serial Control / IR Receiver
- 7. RS232 (RJ-45) OUT Serial Control
- 8. HDMI2 IN (Daisy Chain)
- 9. HDMI2 OUT A (Daisy Chain)
- 10. HDMI2 OUT B (Daisy Chain)
- 11. POWER ON / OFF Switch
- 12. AC 100-240V IN

Interface Resolution & Refresh Rate

Interface Input Source	Max Resolution	Refresh Rate
Display Port (1.2) In	3840 x 2160	60Hz
HDMI1 (1.4) In	3840 x 2160	30Hz
HDMI2 (2.0) In / Out	3840 x 2160	60Hz
DVI-D In	1920 x 1080	60Hz

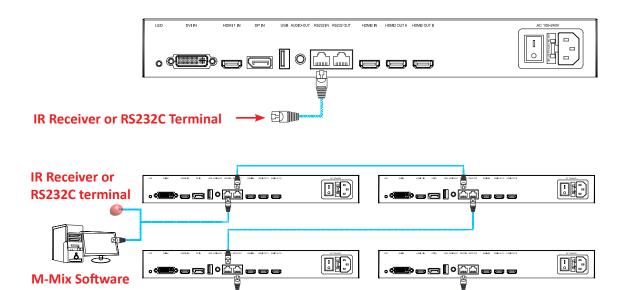


Remote Control Operation

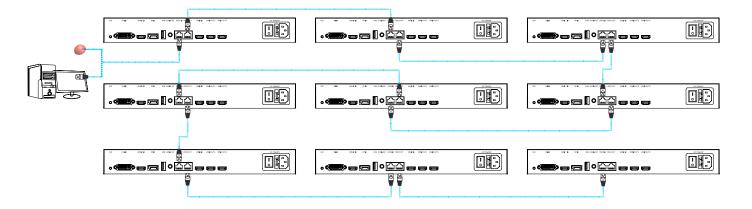
Before using OSD & remote controller, user needs to connect the RS232 cable to all monitors like below picture, thus user has 2 ways to control videowall.

- 1. Use the IR remote controller
- 2. Use the serial control program (M-Mix Control)

Either way, RJ45 (RS232) cable needs to connect as following figures and add AC Power cables.



RJ45 (RS232) cable connection (Daisy Chain) of 2x2 Videowall

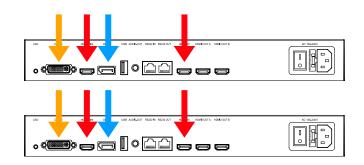


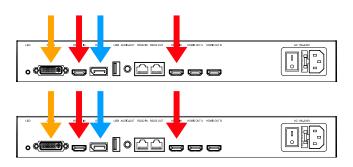
RJ45 (RS232) cable connection (Daisy Chain) of 3x3 Videowall



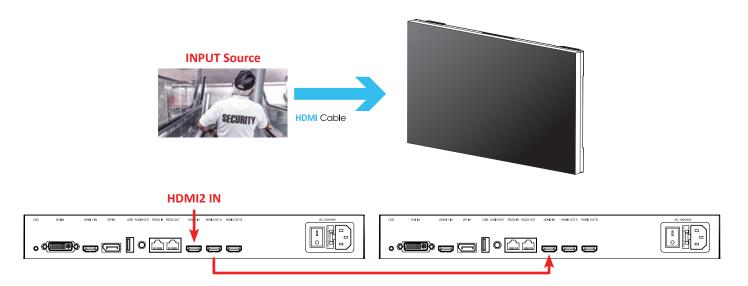
Input Source (No SPLICE mode)

Video cables (if not use SPLICE mode) connect any video cable to video input ports.





Input Source (SPLICE mode)



- ① Connect the Video source at the HDMI2 IN of 1st monitor.
- ② Connect the HDMI cable at HDMI OUT of 1st monitor and HDMI2 IN of 2nd monitor. And connect 2nd and 3rd monitors repeatedly until the last of monitor.



Note

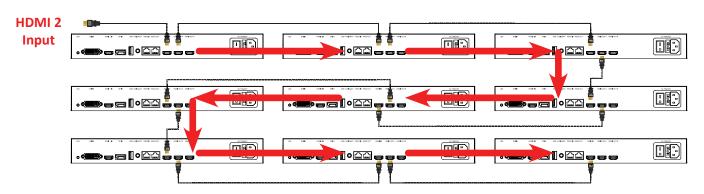
ViewZ recommend to use the short HDMI cable (less than 6 feets) for SPLICE mode (Daisy-Chain) connection.



Input Source (SPLICE mode)

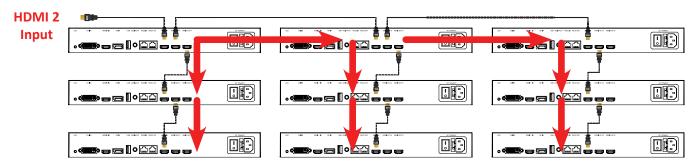
User can make daisy-chain mode in 2 ways. If videowall has less than 12 monitors, user can use either connect method 1 or 2.

Connect Method 1



When the videowall has more than 12 monitors and needs to be daisy-chained, user needs to make daisy-chain as connection as following figure;

Connect Method 2

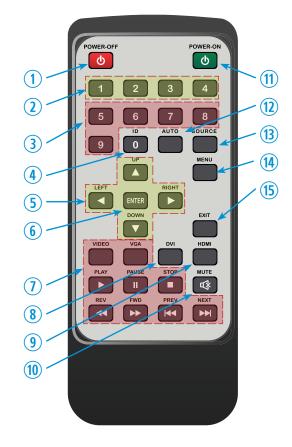




REMOTE FUNCTION

IR Remote Controller

- 1. POWER OFF
- 2. PBP Shortcut Key #1 (No PBP), #2 (PBP 2 windows), #3 (PBP 3 Windows), #4 (PBP 4 windows)
- 3. Number Key For entering ID #s
- 4. ID(0) OSD Version
- ARROW OSD Control / Shortcut Key (Monitor Brightness)
- 6. ENTER To confirm current OSD value
- 7. No Function VIDEO/VGA/PLAY/PAUSE/STOP/REV./ FWD/PREV./NEXT.
- 8. DVI To select the DVI input source
- 9. HDMI To select the HDMI1/HDMI2 input source
- 10. MUTE Turn Off the Sound (Audio Out)
- 11. POWER ON
- **12. AUTO** Control a single screen on the videowall, after setup a location (row & column) on the videowall
- 13. SOURCE Change the input source
- 14. MENU Enter the OSD
- 15. EXIT Exit the OSD



Display image, sound and custom settings can be adjusted in OSD (On Screen Display) menu by remote controller. To adjust monitor setting value:

- Press the MENU button to enter the OSD menu as following figure.
- Press the ▲ / ▼ buttons to select the desired submenu. The selected sub-menu will be highlighted.
- 3. Press the ◀ / ▶ buttons to change the value you wish to adjust.
- Press the ENTER button to confirm / the MENU/ EXIT button to exit for saving adjustment value on sub-menu.





IR Remote Controller

Press the **SOURCE** button, then press the ▲ / ▼ buttons to select input source. Press the **ENTER** button to select a desired input source. If you connect any input source, monitor will display current input source resolution and frequency after selection of input source.



On the remote controller, press MUTE button to on / off audio-out of monitor.





On the remote controller, press \triangleleft / \triangleright / \bigvee / \blacktriangle button to change the brightness of monitor.





Note

• When any input source is applied, monitor will display current input source resolution and frequency.



Brightness / Contrast



▲/▼ MOVE **◄/▶** ADJUST **ENTER** SELECT **MENU** RETURN

	FUNCTION	VALUE
BACKLIGHT	Set the illumination for LCD panel	0 ~ 100 (Default: 100)
CONTRAST	Adjusts the difference between the lightest and	0 ~ 100 (Default: 50)
	darkest parts of the image	
BRIGHTNESS	Adjusts the brightness	0 ~ 100 (Default: 50)
DCR	Set the dynamic contrast ratio mode	ON / OFF (Default: OFF)



Color Setting



▲/▼ MOVE **◄/▶** ADJUST **ENTER** SELECT **MENU** RETURN

	FUNCTION	VALUE
GAMMA	Adjust gamma curve (color depth)	1.8, 2.0, 2.2, 2.4, 2.6 (Default: 2.2)
PICTURE MODE	Adjust the image color setting	See table below (Default: Standard)
COLOR TEMPERATURE	Adjust the color temperature	See table below (Default: Normal)
HUE	Adjust the hue	0 ~ 100 (Default: 50)
SATURATION	Adjust the color saturation	0 ~ 100 (Default: 50)

	PICTURE MODE
STANDARD	Provides standard contrast and sharpness
PHOTO	Enhances contrast, sharpness, and color of text
MOVIE	Provides film-based content for a cinema-like environment
GAME	Provides standard pictures suitable for games
FPS	Provides a first-person shooting game for game environment
RTS	Provides a real-time strategy game for game environment

	COLOR TEMPERATURE
WARM	Give the white color a reddish tint
NORMAL	Give the white color a neutral tint
COOL	Give the white color a blue-ish tint
USER	Apply proper values to adjust white balance - Default: R 128(0 ~ 255), G 128 (0 ~ 255), B 128 (0 ~ 255)



Picture Quality Setting

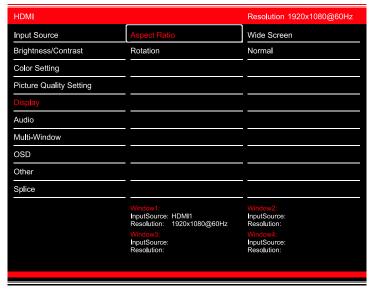


▲/▼ MOVE **◄/▶** ADJUST **ENTER** SELECT **MENU** RETURN

	FUNTION	VALUE
SHARPNESS	Adjust the sharpness level	0 ~ 100 (Default: 50)
RESPONSE TIME	Set the response time	Default: OFF (Off, High, Middle, Low)
NOISE REDUCTION	Estimates the amount of noise automatically	Default: OFF (Off, High, Middle, Low)
	and applies suitable noise reduction processing	
SUPER RESOLUTION	Increases the resolution of an image or video,	Default: OFF (Off, High, Middle, Low)
	making it larger and sharper.	
DYNAMIC LUMINOUS	Automatically adjusts its brightness based on	ON / OFF (Default: OFF)
CONTROL	the content being displayed	



Display



▲/▼ MOVE **◄/►** ADJUST **ENTER** SELECT **MENU** RETURN

	FUNCTION	VALUE
ASPECT RATIO	Adjust the video format	Wide screen, 4:3, 1:1, Auto (Default: Wide Screen)
ROTATION	Rotate the display image	Normal / 90° / 180° / 270°
		(Default: Normal)



Audio



▲/▼ MOVE **◄/▶** ADJUST **ENTER** SELECT **MENU** RETURN

	FUNTION	VALUE
MUTE	Turn on / off the sound	ON / OFF (Default: OFF)
VOLUME	Adjust the volume level	0 ~ 100 (Default: 50)
AUDIO OUTPUT	Select a type of audio output	Earphone / Speaker
		(Default: Earphone)

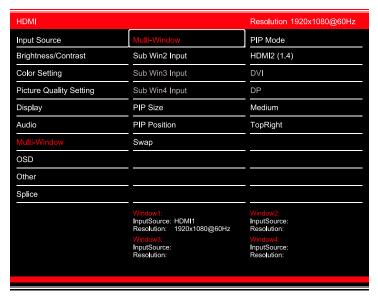


Note

• ViewZ UNBS, SNB, SHB, ENB & EHB series do not support internal speaker.



Mutil-Window



▲/▼ MOVE **◄/►**ADJUST **ENTER** SELECT **MENU** RETURN

	FUNCTION	VALUE
MULTI-WINDOW	Set the multi-window function	Off, PIP, PBP2, PBP3, PBP4 (Default: OFF)
SUBWIN 2 INPUT	Select 2 PBP input sources	DP, HDMI1, HDMI2, DVI
SUBWIN 3 INPUT	Select 3 PBP input sources	DP, HDMI1, HDMI2, DVI
SUBWIN 4 INPUT	Select 4 PBP input sources	DP, HDMI1, HDMI2, DVI
PIP SIZE	Set the size of PIP screen	Small, Medium, Large (Default: Medium)
PIP POSITION	Set the position of PIP screen	TopRight, TopLeft, BottomRight, BottomLeft
		Default: TopRight
SWAP	Swap display images for PIP	



OSD



▲/▼ MOVE **◄/▶** ADJUST **ENTER** SELECT **MENU** RETURN

	FUNTION	VALUE
LANGUAGE	Set the language of the OSD menu	English, French, Portuguese, Japanese,
		Spanish (Default: English)
OSD H-POSITION	Adjust the horizontal position of OSD	0 ~ 100 (Default: 50)
OSD V-POSITION	Adjust the vertical position of OSD	0 ~ 100 (Default: 50)
OSD TRANSPARENCY	Set the OSD transparency	0 ~ 100 (Default: 20)
OSD TIME OUT	Adjust the OSD display time	0 ~ 100 (Default: 20)
OSD ROTATION	Rotate the OSD	Normal / 90° / 180° / 270° (Default: Normal)
		(Default: Normal)



Other

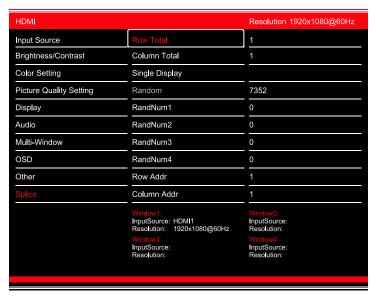


▲/▼ MOVE **◀/▶** ADJUST **ENTER** SELECT **MENU** RETURN

	FUNCTION	VALUE
DP VERSION	Display the version of DP	Default: DP1.2
RESET	Reset the monitor settings to the factory default	



Splice



▲/▼ MOVE **◄/▶** ADJUST **ENTER** SELECT **MENU** RETURN

	FUNCTION	VALUE
ROW TOTAL	Select the total horizontal monitor number	1 ~ 15 (Default: 1)
COLUMN TOTAL	Select the total vertical monitor number	1 ~ 15 (Default: 1)
SINGLE DISPLAY 1)	Switch entire monitors as only one display	
	on each videowall monitor	
RANDOM 2)	This 4 digit numbers is a logical identification number	Default: XXXX
	of selected monitor. This RANDOM (ID) number will	
	be updated at every time (Power ON/OFF).	

- 1) When user activates **SINGLE DISPLAY**, user will see same image on every monitor. To come back to the videowall display, user needs to update the value of **Row Total** & **Column Total** based on the previous setup or select the number of **Row/Column number** (of current videowall).
- 2) This 4 digits (logical identification code) keep updating after power on/off automatically.

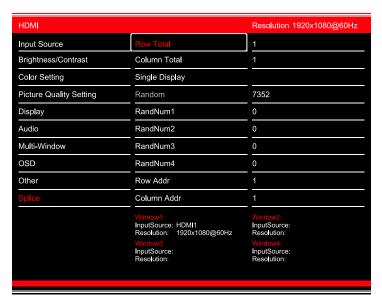


Note

- This SPLICE feature is effected when each monitor is connected with daisy chained.
- For SPLICE setup, please see page 26.
- If user uses ViewZ PRO series controller, this SPLICE feature is not needed to setup.



Splice



▲/▼ MOVE **◄/▶** ADJUST **ENTER** SELECT **MENU** RETURN

	FUNCTION	VALUE
RANDNUM1 3)	Type the 1st number of RANDOM (4 digits) number	0 ~ 9 (Default: 0)
RANDNUM2 3)	Type the 2nd number of RANDOM (4 digits) number	0 ~ 9 (Default: 0)
RANDNUM3 3)	Type the 3rd number of RANDOM (4 digits) number	0 ~ 9 (Default: 0)
RANDNUM4 3)	Type the 4th number of RANDOM (4 digits) number	0 ~ 9 (Default: 0)
ROW ADDR 4)	The number of row position on the videowall	1 ~ 15 (Default: 1)
COLUMN ADDR 4)	The number of column position on the videowall	1 ~ 15 (Default: 1)

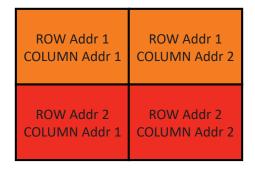
- 3) When user setup the number of **RANDNUM** 1, 2, 3 & 4 based on **RANDOM** number, user can change the value of **ROW ADDR** & **COLUMN ADDR**. By using this feature, user can easily define the postion of videowall.
- 4) These numbers define the physical position (row & column position) on the videowall.



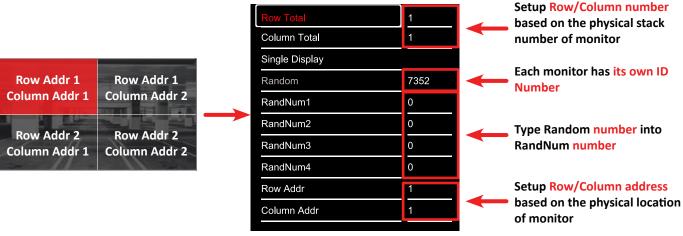
SPLICE Mode - Setup 2x2 Videowall

Power ON and ID Setting

- ① Power on the video source and the video wall monitors.
- ② Press **SOURCE** on the IR Remote Controller (be sure to display input source on all of monitors) & select **HDMI2**.



- ③ Press MENU and move to SPLICE to setup RAMDOM ID per each monitor.
- First, be sure all of 4 monitors show at ROW-1, COLUMN-1 to start ID SETTING (Rnadom) at left-top monitor.

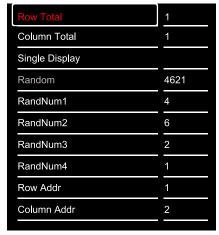


Row Address 1 Column Address 1

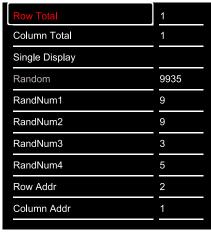
S Check the Random number and type 4 digit Random numbers to RandNum 1 to 4. For example, if Random numbers is 7352, select RandNum1 as 7, RandNum2 as 3, RandNum3 as 7, and RandNum4 as 2 in order.



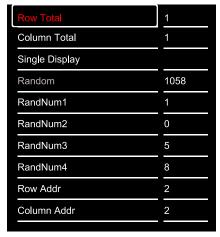
SPLICE Mode - Setup 2x2 Videowall





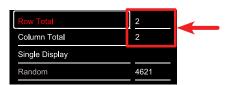


Row Address 2 Column Address 1



Row Address 2 Column Address 2

- 6 Then, change Row Addr & Column Addr of selected monitor.
- Repeat 4 to 6 to set up ID SETTING (Random) at right-top monitor (ROW-1, COLUMN-2), left-bottom (ROW-2, COLUMN-1) & right-bottom (ROW-2, COLUMN-2) monitors.
- ® Change ROW Total number as 2 and COLUMN Total number as 2.





In case of 3x3 video wall ROW and COLUMN should refer to the following numbers

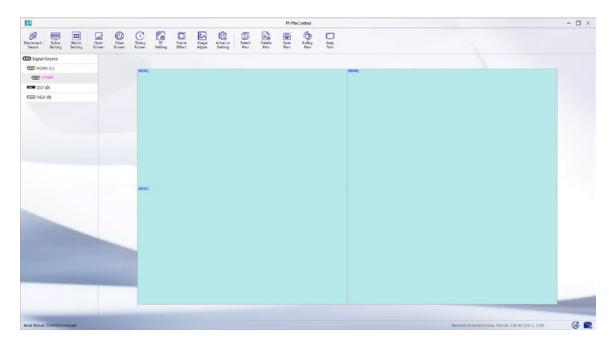
ROW Addr 1	ROW Addr 1	ROW Addr 1
COLUMN Addr 1	COLUMN Addr 2	COLUMN Addr 3
ROW Addr 2	ROW Addr 2	ROW Addr 2
COLUMN Addr 1	COLUMN Addr 2	COLUMN Addr 3
ROW Addr 3	ROW Addr 3	ROW Addr 3
COLUMN Addr 1	COLUMN Addr 2	COLUMN Addr 3



Using Serial Control Program - M-Mix Software

Power and ID Setting

- ① Power on the video source and the video wall monitors.
- ② Press **SOURCE** on the IR Remote Controller (be sure to display input source on all of monitors) and select **HDMI2** input source.
- 3 Disconnect the IR Receiver and connect the Serial Control Cable at the RS232 (RJ45) IN of 1st monitor
- ④ Use the remote control program (MixControl) via a computer.

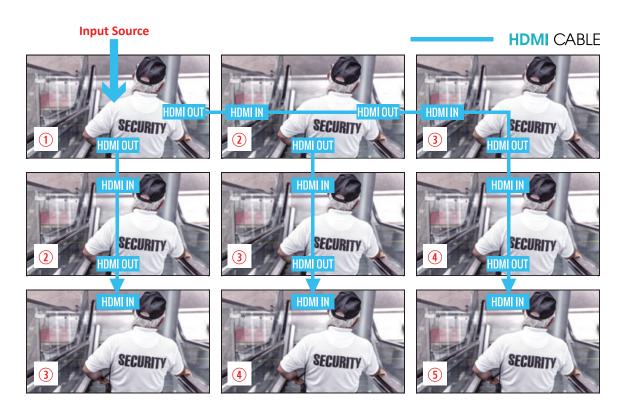


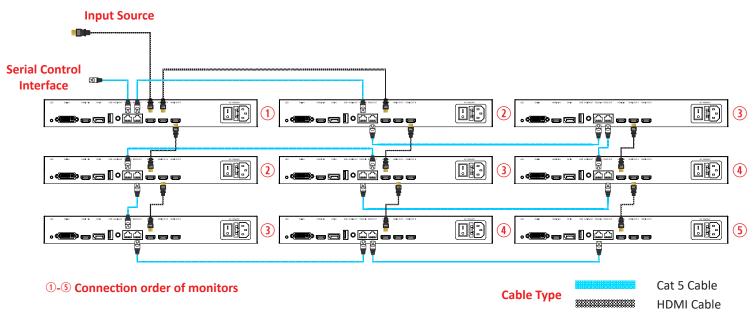
Please refer "VZ-UNBS-VideoWall-SW-Manual-M-Mix"



Using Serial Control Program - M-Mix Software

• If your setup is successfully done, you will see the image like below picture.



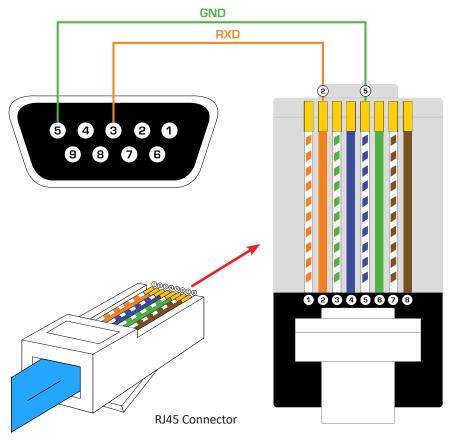




RS232 (RJ-45) PIN ASSIGNMENT

PIN MAP

The following image is the description of RJ-45 PIN MAP



	RS232 (DP9)	RJ45
RXD (Received Data)	3	2
GND (Groud)	5	5

If your video wall system requires an unified control by the central control (do not use provided video wall screen control software), please use the provided RJ-45(RS-232) cables to configure the sytem. If necessary, you can make your own RJ-45(RS-232) cables based on the above pin map. If you have further questions, please contact ViewZ.

Firmware Upgrade/Update Process

- 1. Download or copy Firmware file from ViewZ.
- 2. Copy the file to the empty USB
 - *Caution This file should be placed in the root folder of USB.
- 3. The software name is fixed as FLW_V56, BIN file type. Please note that the firmware file name should not be modified, otherwise the board cannot identify the firmware file.
- 4. Turn off the monitor and insert the USB drive to the USB interface of monitor.
- 5. Turn the power back on, then the monitor will be automatically upgraded/updated. During the upgrade/update process, the power indicator will be flashing.

 When the upgrade/update is completed the power indicator will stop flashing.
- 6. After the upgrade/update process, the monitor will relaunch, indicating the update/upgrade has been completed.
 - *Caution Do not turn off the power or remove the USB during upgrade/update process as the monitor board can be damaged in doing so.



RS 232 Communication Command & Relevant Configurations - Set Command

In consideration of secondary development of centralized control circumstances, the function of RS232 communication command & relevant configuration setup are described as follow:

- DATA1 : Communication data header,The system is fixed as 0xD5
- DATA2: Address, The first address identification code of the drive board (0x11 0xAA)
- DATA3: Address, The last address identification code of the drive board (0x11 0xAA)
- DATA4: Command 1
- DATA5: Command 2 full detail as below list
- DATA6: The Data verification code (OxAA)

Example: For AV channel from 1,1 to 3,3, splice the video wall: D5 11 33 20 00 AA

DATA 1 DATA	2 DATA 3	DATA 4	DATA 5	DATA 6
-------------	----------	--------	--------	--------

	COMMAND 1 (DATA 4)		COM	1MAND 2 (DATA 5)
CLASSES	NUMBER	EXPLANATION	NUMBER	EXPLANATION
SWITCH CONTROL	10	POWER ON / OFF	0	POWER OFF
			1	POWER ON
CHANNEL CONTROL SPLICING	20	CHANNEL SELECTION	0	AV
		(SPLICING)	1	S-VIDEO
			2	VGA
			3	DVI
			5	HDMI
			8	DP
VIDEO CONTROL	30	CONTRAST RATIO	0/1	DOWN / UP
	31	BRIGHTNESS	0/1	DOWN / UP
	32	COLOR SATURATION	0/1	DOWN / UP
	33	COLOR	0/1	DOWN / UP
	34	DEFINITION	0/1	DOWN / UP
	35	R GAIN	0/1	DOWN / UP
	36	G GAIN	0/1	DOWN / UP
	37	B GAIN	0/1	DOWN / UP
	38	HORIZONTAL POSITION	0/1	DOWN / UP
	39	VERTICAL POSITION	0/1	DOWN / UP



RS 232 Communication Command & Relevant Configurations - Get Command

The data format is RS232 serial port multi-machine communication format

	COMMAND 1 (DATA 4)		CON	//MAND 2 (DATA 5)
CLASSES	NUMBER	EXPLANATION	NUMBER	EXPLANATION
VGA/DVI CONTROL	40	RGB CONTRAST RATIO	0/1	DOWN / UP
	41	RGB BRIGHTNESS	0/1	DOWN / UP
	42	PC COLOR TEMPERATURE	1	NORMAL TEMPERATURE
	43	PC COLOR TEMPERATURE	1	WARM TONE
	44	PC COLOR TEMPERATURE	1	COLD TONE
	45	COLOR TEMPERATURE (R)	0/1	DOWN / UP
	46	COLOR TEMPERATURE (G)	0/1	DOWN / UP
	47	COLOR TEMPERATURE (B)	0/1	DOWN / UP
	48	ADC R OFFESET	0/1	DOWN / UP
	49	ADC G OFFESET	0/1	DOWN / UP
	4A	ADC B OFFESET	0/1	DOWN / UP
	4B	ADC R GAIN	0/1	DOWN / UP
	4C	ADC G GAIN	0/1	DOWN / UP
	4D	ADC B GAIN	0/1	DOWN / UP
	4E	AUTO ADJUST	1	ADJUST
	4F	HORIZONTAL POSITION	0/1	DOWN / UP
	50	VERTICAL POSITION	0/1	DOWN / UP
	51	AUTOMATIC COLOR ADJUST	1	ADJUST
	52	CLOCK ADJUSTMENT	0/1	DOWN / UP
	53	PHASE ADJUSTMENT	0/1	DOWN / UP
	5a	HORIZONTAL FRAME	0 ~ 100	ADJUST
	5b	VERTICAL FRAME	0 ~ 100	ADJUST
	5c	STILL	1	CHANGE
SYSTEM	60	USER RESET	1	INITIAL SYSTEM
	70	SAVE DATA	1	SAVE THE VALUES FOR
				THE ABOVE ADJUSTMENT



RS 232 Communication Command & Relevant Configurations - Set Command

The data format is RS232 serial port multi-machine communication format

	COMMAND 1 (DATA 4)		COM	1MAND 2 (DATA 5)
CLASSES	NUMBER	EXPLANATION	NUMBER	EXPLANATION
FUNCTION ADJUSTMENT	76	FAN & TEMPERATURE	0	FAN CONTROL BY TEMP.
		CONTROL		45°C RUN THE FAN
				& 35°C OFF THE FAN
			1	RUN THE FAN
			2	OFF THE FAN
	77	RUN THE FAN ON THE	XX	
		MAX TEMPERATURE		
	78	RUN THE FAN ON THE	XX	
		MIN TEMPERATURE		
SYSTEM PARAMETER	80	TI PARAMETER	0/1	ADJUST / ADJUST
ADJUSTMENT	81	TI MODE	0	NORMAL MODE
			1	MEMORY MODE
	82	SOFTWARE INFORMATION	1	INVOKE
	83	AUTOMATIC STARTUP	0/1	OFF / ON
		ADJUSTMENT		
	85	NO SIGNAL	0/1	BLACK / BLUE
	90	BACKLIGHT BRIGHTNESS	0/1	DOWN / UP
		ADJUSTMENT		
	9f	TEST SIGNAL	0/1	DOWN / UP
PREPLAN MODE	A0	SAVE PREPLAN MODE	1 ~ 16	SAVE
	A1	INVOKE PREPLAN MODE	1 ~ 16	INVOKE
	A2	BACKLIGHT BRIGHTNESS	0 ~ 255	
	А3	S-SYSTEM	0	AUTO
			1	PAL
			2	NTSC
			3	SECAM



RS 232 Communication Command & Relevant Configurations - Set Command

The data format is RS232 serial port multi-machine communication format

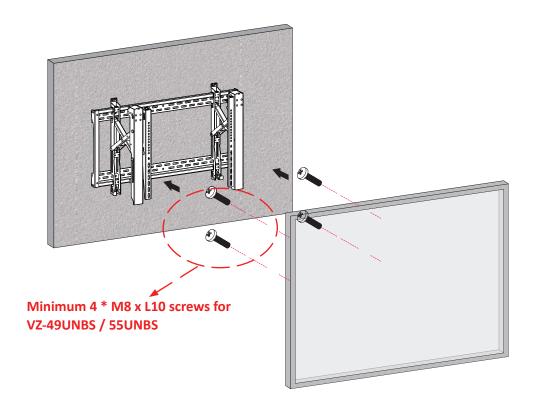
	COMMAND 1 (DATA 4)		COV	//MAND 2 (DATA 5)
CLASSES	NUMBER	EXPLANATION	NUMBER	EXPLANATION
GRAIN REDUCTION MODE	A4		0	CLOSE
			1	LOW
			2	MIDDLE
			3	HIGH
			4	AUTO
AB GROUP EXCHANGE	A5		0	NORMAL
			1	EXCHANGE 2 SETS OF DATA
	81	AB GROUP MODE	0	NORMAL MODE
			1	MEMORY MODE
REPRODUCIBILITY ADJUSTMENT	b8	HORIZONTAL DIRECTION	0/1	DECREASE / INCREASE
	b9	VERTICAL DIRECTION	0/1	DECREASE / INCREASE



MOUNTING GUIDE

Wall Mounting (Optional)

VZ-UNBS monitors are suitable for universal wall mount (not included).



1. VZ-49UNBS & VZ-55UNBS : Universal WALL MOUNT 600 x (100 x 4) mm



WARNING!

If user uses screws bigger and longer than M8 x L10 mm for VZ-49UNBS & VZ-55UNBS it may cause damage to the unit. Please use bolt of correct size and length as instructed.



Mounting Safety!

At least two people are recommended to safely install the mount and monitor.



SPECIFICATION

Model No.		VZ-49UNBS	VZ-55UNBS				
	Size & Type	49"	55"				
	Panel Type	49" LED Backlit Monitor	55" LED Backlit Monitor				
	Pixel Pitch (mm)	0.55926 (H) x 0.55926 (V) mm	0.630 (H) x 0.630 (V) mm				
	Brightness	450 cd/m²	500 cd/m²				
	Contrast Ratio 1200 : 1		1200 : 1				
LCD	Viewing Angle	178° ,	/ 178°				
LCD	Display Color	16.7 Milli	ion Colors				
	Response Time	< 8ms (Gray to Gray)	< 8ms (Gray to Gray)				
	Resolution	1920 (H)	x 1080 (V)				
	Active Display Area	1074.1 (H) x 604.3 (V) mm	1209.6 (H) x 680.4 (V) mm				
	Aspect Ratio	16	: 9				
Beze	el width (T & B / L & R)	0.090" x 0.047" / 2.3 x 1.2 mm					
Ad	ctive to Active Bezel	0.137" / 3.5 mm					
	Case Type	Black Metal					
Ор	erating Temperature	14°F ~ 149°F / -10°C ~ 65°C					
St	corage Temperature	32°F ~ 140°F	- / 0°C ~ 60°C				
	perating Humidity	5 ~ 99	5% RH				
	Weight	Net : 54.89 lb / 24.5 kg	Net : 65.91 lb / 29.9 kg				
		Gross : 74.73 lb / 33.9 kg	Gross : 88.18 lb / 40.0 kg				
	INTERFACE	HDMI INPUT x 2 / OUTPUT x 2,	DP INPUT x 1, DVI-D INPUT x 1,				
	INTENTACE	RS232(RJ-45) INPUT x 1, RS232(RJ-45) OUTP	UT x 1, AUDIO OUPUT x 1, USB (Upgrade) x 1				
Safe	ty & EMC Certification	FCC / NDAA / RoHS					
	Electrical Ratings	AC 100-240V, 50/60Hz, 2.0A					
Р	ower Consumption	≤ 120 W (Max) / 0.5 W (Standby)	≤ 180 W (Max) / 0.5 W (Standby)				
	Accessories	AC110V Power Cable x 1, HDMI Cable x	x 1, Manual x1, CAT5 Cable (RS232) x 1,				
		Remote Controller x 1, IR Receiver	x 1, Converter (RJ45 to RS232) x 1				



TROUBLESHOOTING GUIDE

- Check the following before calling for service.
- If the same problems continue after checking, contact the reseller you purchased the monitor from.

At start	We recommend that you test with different input sources when you have trouble with the current input source. If symptom persists, follow the instructions below. After following the instructions below, please contact us at 1-888-99-VIEWZ.
No image or Noise on the screen	 Make sure the cable is correctly plugged into the outlet. Make sure the power cable is correctly plugged into the monitor. Make sure the cable is correctly connected between monitor & source. Make sure to use RS-232/RJ-45 cable provided with the monitor Check the RS-232/RJ-45 cable connection & Daisy chain wiring configuration. Check the brightness setting and see if brightness is set to 'Ø'. Check the video source.
Incorrect display or Half display	- Check your video source - Reset video source : connection, cable replacement, setting & more
Flickering and shadow image	- Check your input source setting for resolution and phase (Hz)
The audio function is not working	- Check the volume and make sure MUTE is not on - Check HDMI / BNC / Audio port cable connection
LED is flickering or no image	- Check the interface cable connection and make sure it's plugged in correctly - Check the input source



TERMS OF WARRANTY / RMA

- The warranty period for this monitor is 3 years. The warranty will be voided for the scenarios listed below.
- You can also download the manual and information on VIEWZ web site: VIEWZUSA.COM

	When power feed to the monitor exceeds capacity and causes damage.
	Accident, Abuse, Misuse, Neglect, Fire, Water/liquids, Lightning or any act of nature.
Cases of	Damaged by dropping, throwing and hitting the monitor.
Non-Warranty Coverage	Failure caused by user's attempt to modify the product.
	Failure by limited life of parts such as LED lamps and any other consumables.
	Damaged by using third party power cable, unstable power input and electric shock.

^{*} Above information can be changed without notification - please check our website or contact ViewZ representative for the latest RMA service policy.

^{*} When shipping the monitor for RMA, make sure to pack safely to ensure the monitor is not damaged during shipping.



NOTE



NOTE



WARRANTY

ViewZ USA LIMITED 3 YEAR WARRANTY

What and Who is Covered by this Limited Warranty and for How Long

ViewZ USA warrants this product to be free from defects in material and workmanship for 3 years to the original owner of this product. The limited warranty is valid only for the original purchaser of the product.

What ViewZ USA Will Do

At their sole discretion, ViewZ USA will repair or replace any product or product part that is defective. If ViewZ USA chooses to replace a defective product or part, a replacement product or part will be shipped to you at no charge, but you must pay any labor costs.

What is Not Covered; Limitations

ViewZ USA disclaims any liability for damage to mounts, adapters, displays, projectors, other property, or personal injury resulting, in whole or in part, from improper installation, modification, use or misuse of its products.

ViewZ USA disclaims all other warranties, express or implied, including warranties of merchantability and fitness for a particular purpose. ViewZ USA is not responsible for incidental or consequential damages, including but not limited to, inability to use its products or labor costs for removing and replacing defective products or parts. Some states do not allow the exclusion or limitation of incidental or consequential damage, so the above limitation or exclusion many not apply to you.

What Customers Must Do for Limited Warranty Service

If you discover a problem that you think may be covered by the warranty you MUST REPORT it in writing to the address below within thirty (30) days. Proof of purchase (an original sales receipt) from the original consumer purchaser must accompany all warranty claims. Warranty claims must also include a description of the problem, the purchaser's name, address, and telephone number. General inquiries can be addressed to ViewZ USA Customer Service at 1-888-998-4399. Warranty claims will not be accepted over the phone or by fax.

ViewZ USA Attn: Warranty Claim 1030 N ARMANDO ST., ANAHEIM, CA 92806

How State Law Applies

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Disclaimer

ViewZ USA intends to make this manual accurate and complete. However, ViewZ USA makes no claim that the information contained herein covers all details, conditions or variations, nor does it provide for every possible contingency in connection with the installation or use of this monitor. The information contained in this document is subject to change without notice or obligation of any kind. ViewZ USA makes no representation of warranty, expressed or implied, regarding the information contained herein. ViewZ USA assumes no responsibility for accuracy, completeness or sufficiency of the information contained in this document.

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