

# VZ-LED SERIES

21.5" 3G-SDI BROADCAST MONITOR

## USER MANUAL

EDITION : May 2019



**ViewZ®**  
[www.viewzusa.com](http://www.viewzusa.com)

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

# CONTENTS

**Safety Instruction** ..... 3

    1. Important Safety Instruction ..... 3

**Installation** ..... 4

    1. Package ..... 4

    2. Interface ..... 5

**Function** ..... 6

    1. Monitor Button Function ..... 6

    2. OSD Control and Function ..... 8

**Specification** ..... 11

**Trouble Shooting** ..... 13

# SAFETY INSTRUCTION

## Important Safety Instruction

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 are 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.

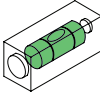
The monitor should have ample distance (e.g. 10cm) from the wall for sufficient ventilation.

The device has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment, the device should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

# INSTALLATION

## Installation Tools

The following tools may be required depending on your installation.

				
Electronic Stud Finder	Pencil	Protective Eye-wear	Level	Phillips Screwdriver

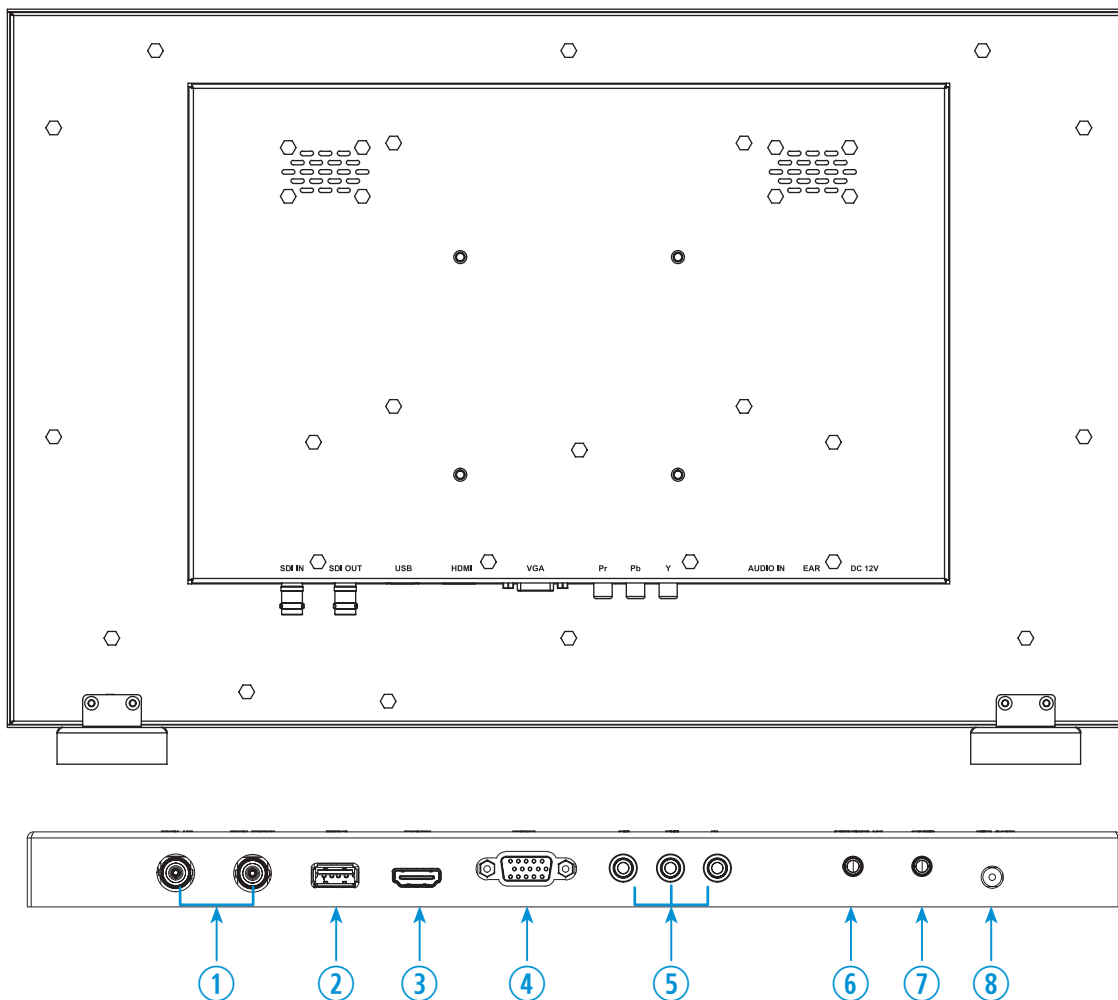
## Assembly Components - provided

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.

			
LED Monitor (Qty 1) & Base Stand (Qty 1set)	User Manual (Qty 1)	HDMI A/A Cable (Qty 1)	

# CONNECT EXTERNAL EQUIPMENTS

## Interface Input Ports

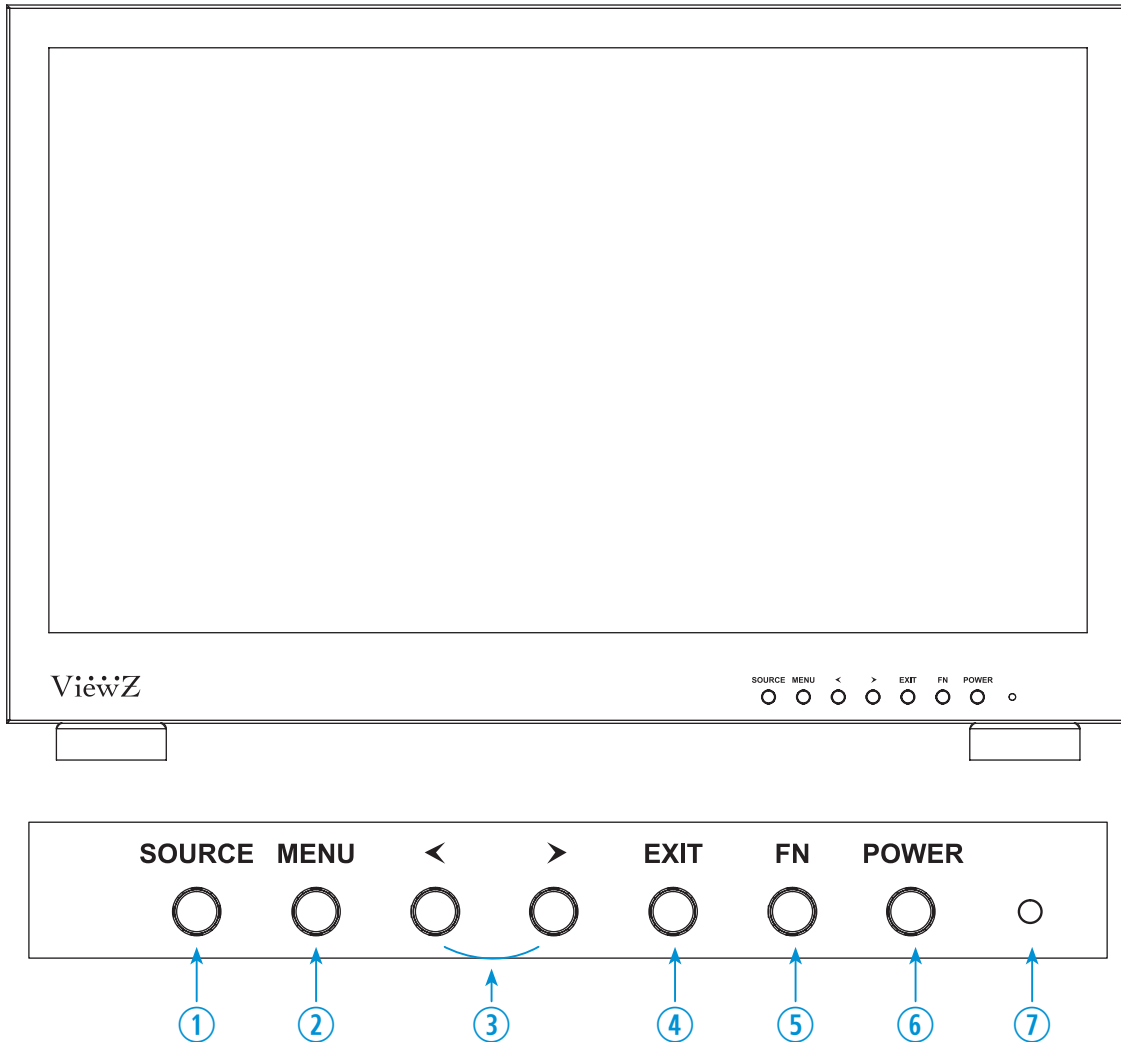


1. 3G-SDI IN / OUT
2. USB (Upgrade only)
3. HDMI IN
4. VGA

5. YPbPr IN
6. AUDIO IN
7. AUDIO OUT
8. DC 12V IN

# CONTROL AND FUNCTION

## Monitor Button Function



- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. Source<br/>Select an input source</li> <li>2. Menu<br/>Enter the MENU, save the adjustment of sub-menu and exit the OSD</li> <li>3. Left &amp; Right ◀ ▶<br/>Change the value on selected menu</li> <li>4. Exit<br/>Exit the MENU or go back previous MENU selection</li> </ol> | <ol style="list-style-type: none"> <li>5. FN<br/>User definable button. Default function is 'Waveform'</li> <li>6. Power<br/>Monitor power on / off</li> <li>7. LED Indicator<br/>Blue color: monitor on<br/>Red color : monitor off</li> </ol> |
|---|---|

# CONTROL AND FUNCTION

## Monitor Button Function

**Shortcut key:** F1 user-definable function button

1. Select "**MEMU / SYSTEM / F1 Configuration**" to custom F1 shortcut setting. Then press ◀ ▶ button to choose options.
2. Press "**MENU**" to confirm option as default, then press **EXIT** to exit.

Function of F1 button can also be customized: Level Meter, Center Marker, Aspect Marker, Check Filed, Underscan, Scan, Aspect, Freeze.

**Default function:** Level Meter

### ◀ ▶ Buttons Operation

1. Press ◀ ▶ button to activate the Volume bar when not under the menu display.
2. Press again to adjust the value of option directly.
3. Press **'EXIT'** to exit if accidentally enter the menu.
4. After enter the Volume menu, press **'MENU'** to select among of volume, brightness, contrast, saturation, tint, sharpness , exit and **'MENU'**.

### MENU Operation

1. When power on, press **'MENU'** on the device, The menu of function setting will display on the screen.
2. Press button to choose sub-menu
3. Then press **'MENU'** button to confirm
4. Press **'EXIT'** button to return/exit **'MENU/SUB-MENU'**.

# CONTROL AND FUNCTION

## Picture

FUNCTION		VALUE
Brightness	Setup the brightness	0 ~ 100
Contrast	Setup the contrast	0 ~ 100
Tint	Setup the tint	0 ~ 100
Sharpness	Setup the sharpness	0 ~ 100
Color Temperature	Setup the color temperature	6500°K, 7500°K, 9300°K, User
Red Gain	Setup the Red contrast(gain) level	0 ~ 255
Green Gain <sup>1)</sup>	Setup the Green contrast(gain) level	0 ~ 255
Blue Gain <sup>1)</sup>	Setup the Blue contrast(gain) level	0 ~ 255
Red Offset <sup>1)</sup>	Setup the Red brightness(offset) level	0 ~ 511
Green Offset <sup>1)</sup>	Setup the Green brightness(offset) level	0 ~ 511
Blue Offset <sup>1)</sup>	Setup the Blue brightness(offset) level	0 ~ 511

1) In 'User' mode, users can define RGB Gain and Bias values for own purpose

## Marker

FUNCTION		VALUE
Center Marker	Turn on and off center marker	OFF, ON
Aspect Marker	Setup the marker based on aspect ratio	OFF, 1.85:1, 2.35:1, 4:3, 3:2
Safety Marker	Setup the marker area based on screen size	OFF, 95%, 93%, 90%, 88%, 85%, 80%
Marker Color	Setup the marker color	Red, Green, Blue, White, Black
Grid	Turn on and off grid mode	OFF, ON
Marker Mat	Setup the darkness of areas out of line marker	OFF, 1 ~ 7
Thickness	Setup the marker line thickness	2, 4, 6, 8



# CONTROL AND FUNCTION

## Function

FUNCTION		VALUE
Scan	Change the scan mod	Aspect, Pixel to Pixel, Zoom
Aspect	Setup the display ratio	Full, 1.85:1, 2.35:1, 4:3, 3:2
Display Scan	Display the scan mode	Fullscan, Overscan, Underscan
Check Field	Setup the display color	Off, Mono, Red, Green, Blue
Zoom	Display the original image resolution without scaling to match a certain resolution or an aspect ratio	×1.5, ×2, ×3, ×4
Freeze	Pause the current display image	OFF, ON

## PC

FUNCTION		VALUE
Auto	Fit the image size automatically	OFF, ON
Phase	Adjust the vertical noise of screen image	0 ~ 100
Clock	Adjust the number of horizontal picture element	0 ~ 100
H-Position	Adjust the horizontal position of picture	0 ~ 100
V-Position	Adjust the vertical position of picture	0 ~ 100

Only available in VGA mode

# CONTROL AND FUNCTION

## Audio

FUNCTION		VALUE
Volume	Adjust volume on monitor	0 ~ 100
Level Meter	Turn on/off the embedded audio	OFF, ON
Audio Channel	Setup the embedded audio channel for internal speaker or Audio OUT	Ch 0 / Ch 1, Ch 2 / Ch 3, Ch 4 & Ch 5 Ch 6 / Ch 7, Ch 8 / Ch 9, Ch 10 & Ch 11 Ch 12 / Ch 13, Ch 14 / Ch 15

Audio level meter & channel only available in SDI input

## System

FUNCTION		VALUE
Language	Set the language of the OSD menu	English, Chinese
OSD Timer	Set the OSD display time	10 , 20, 30 sec
OSD Transparency	Set the OSD MENU transparency	OFF, LOW, MIDDLE, HIGH
FLIP Image	Flip the display image	OFF, H/V, HV
Back Light	Set the back light level	0 ~ 100
F1 Configuration	Set up shortcut functions	OFF, 1 ~ 6
Reset	Reset the monitor settings to factory default	OFF, ON

# SPECIFICATION

Model No.		VZ-215LED-L1
Display	Panel Type	21.5" LED Backlit Monitor
	Pixel Pitch	0.24825 (H) x 0.24825 (V) mm
	Brightness	250 cd/m <sup>2</sup>
	Contrast Ratio	1000 : 1(Typ.)
	Viewing Angle	R/L : 85°/ 85° U/D : 80°/ 80°
	Color Depth	16.7 Million Colors
	Response Time	< 25 ms
	Max. Resolution	1920 (H) x 1080 (V) @60Hz
	Aspect Ratio	16 : 9
Audio	Speaker	2 x 2W
Dimension & Weight	Weight	8.4 lbs ( 3.8 kg )
	Dimensions (W x H x D)	20.32 x 13.65 x 1.72" (516.0 x 346.9 x 43.6 mm )
Interface	3G-SDI In / Out	1 / 1 (BNC, 1 input / loop-through out)
	HDMI In	1
	RGB In	1
	Component In	3 ( YCbCr )
	USB	1
	Audio In / Out	1 / 1
General	Operating Temperature	32 - 104°F / 0 - 40°C
	Electrical Ratings	DC12V (AC100 ~ 240V[50/60Hz])
	Case Type	Black Metal
	Power Consumption	≤ 24 W
	Accessories	Monitor x1, Power Adapter x1, HDMI Cable x1, Base Stand x1, Manual x1

# SPECIFICATION

Model No.		VZ-215LED-L1	
Input Signal Format	SDI	SMPTE 425M - A&B (YCbCr 4:2:2)	1080p ( 60/59.94/50 )
		SMPTE 274M (YCbCr 4:2:2)	1080i (60/59.94/50), 1080p (30/29.97/25/24/23.98), 1080Psf (30/29.97/25/24/23.98), 720P(60/59.94/50/30/29.97/25/24/23.98)
		SMPTE 296M (YCbCr 4:2:2)	1280 x 720p (60,59.94,50)
		SMPTE 125M (YCbCr 4:2:2)	480i (59.94)
		ITU-R BT.601 (YCbCr 4:2:2)	576i (50)
	ANALOG	2K Format (YCbCr 4:2:2)	1080P (60/59.94/50, 30/29.97/25/24/23.98)
		COMPONENT	1080i (60/59.94/50), 720P(60/59.94/50)
	HDMI		480i/480P/576i/576P/1080i/1080P
	VGA		VGA, SGA, XGA, SXGA, WXGA, WUXGA
Special Features		Line Marker Option	3:2, 4:3, 1.85:1, 2.35:1, Off
		Safety Area Option	Off, 80%, 85%, 88%, 90%, 93% and 95%
		SDI Sound Channel Option	Two (2) Channels out of sixteen (16) channels.
		RGB Gain	-128 to +128
		RGB Bias	-128 to +128

# 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.
Only black-and-white display	Check whether the color saturation is properly setup.
Power on but no pictures	Check whether the cables of Video, HDMI, RGB and SDI are correctly connected. Please use the standard power adapter coming with the product package. Improper power input may cause the device.
Wrong or abnormal colors	Check whether the cables are correctly and properly connected. Broken or loose pins of the cables may cause a bad connection.
When on the picture shows size error	Press "MENU → Function → Underscan" to zoom in/out pictures automatically when receiving HDMI signals
Other problems	Please press dial button and choose "MENU→SYSTEM→ Reset →ON"

Note: due to constant effort to improve products and product features, specifications may change without notice.

## NOTE

[illegible]