VZ-RTC SERIES
10.1" PROFESSIONAL

LED CCTV MONITOR USER MANUAL

ViewZ®
www.viewzusa.com

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

CONTENTS

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 and 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.

SAFETY INSTRUCTION

Important Safety Instruction

Mark Indication and Substance

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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.

⚠ Warning

- 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 INSTRUCTION

Important Safety Instruction

⚠ 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 minimum 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.

⚠ Nominal Operating Temperature & Humidity

- Operating Temperature : 14°F ∼ 122°F / -10°C ∼ 50°C
- Operating Humidity : 20 ~ 70% 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 in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- 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 user's authority to operate such equipment.

► DOC COMPLIANCE NOTICE
This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the radio interference regulation of Canadian Department of communications.
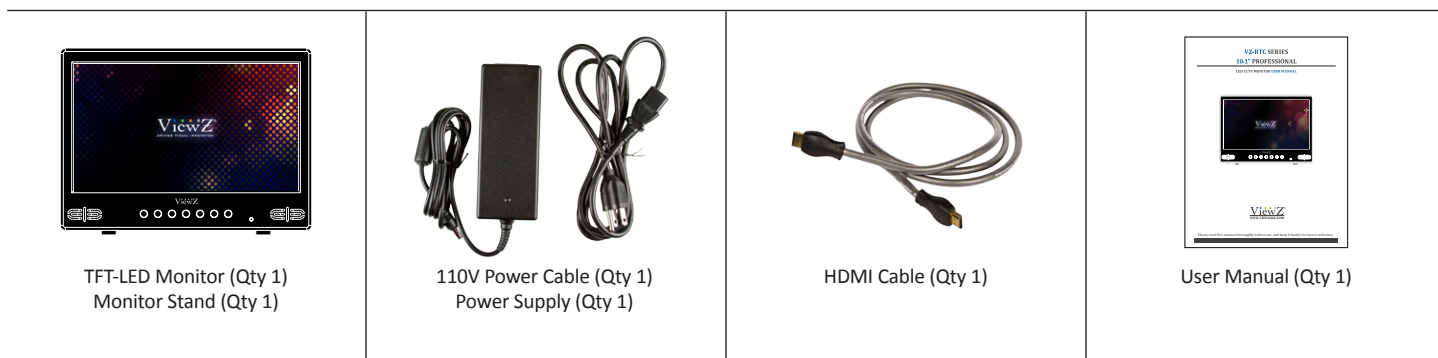
INSTALLATION

Installation Tools

The following tools may be required depending on your installation.

Electronic Stud Finder	Pencil	Protective Eye-wear	Level	Phillips Screwdriver
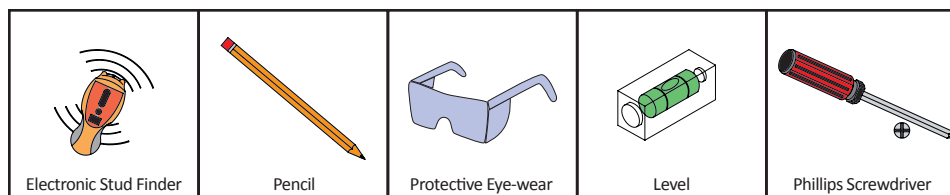
Assembly Components - provided

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.

TFT-LED Monitor (Qty 1) Monitor Stand (Qty 1)	110V Power Cable (Qty 1) Power Supply (Qty 1)	HDMI Cable (Qty 1)	User Manual (Qty 1)

Mounting Option

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

Wall Mount

- Part #   WM05   VESA 50, 75, 100
                            15mm Low profile

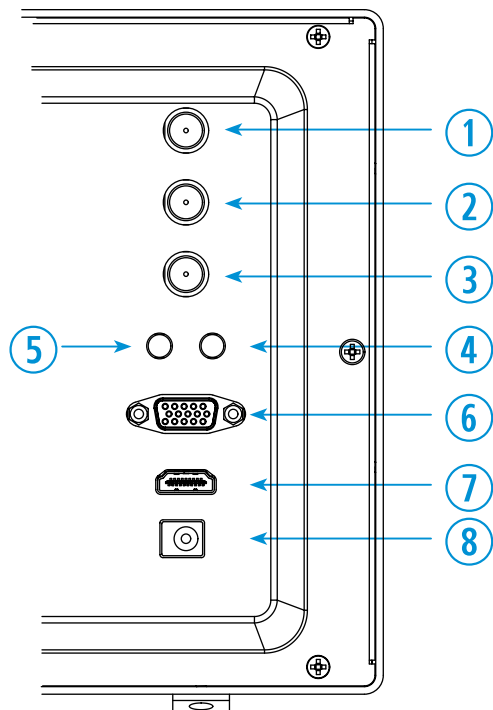- Part #   WM11   Tilting -70° ~ +70°
                            Swivel 180°

- Part #   AM01   Tilting -70° ~ +70°
                            Swivel 180°

CONNECT EXTERNAL EQUIPMENTS
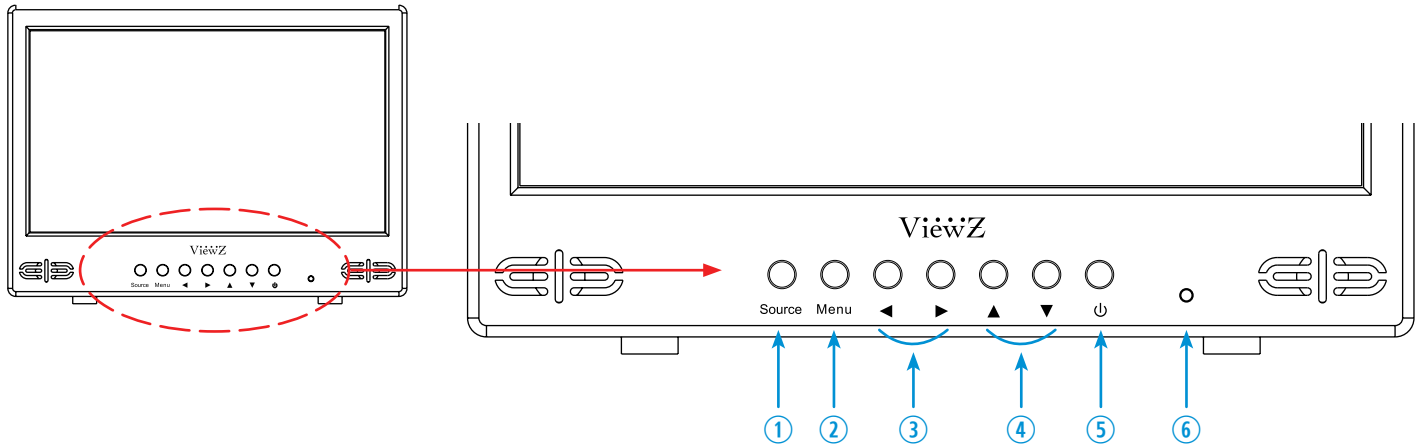
Interface Input Ports

The following image is the description of interface input ports of RTC Monitor

1. BNC (Composite) OUT
2. BNC (Composite) IN #1
3. BNC (Composite) IN #2
4. Audio IN
5. Trigger IN
6. VGA IN
7. HDMI IN
8. DC 12V IN

CONTROL AND FUNCTION

On Monitor, Button Control

1. **Source**
   To select an input source
2. **Menu**
   To enter or exit the OSD / Select a menu on OSD
3. **Left & Right** ◄ (VOL) ►
   To switch a menu on OSD
4. **Up & Down** ▲ ▼
   To change the value on the selected menu

5. **Power**
   To turn the monitor power on / off
6. **LED Indicator**
   Green color: monitor on
   Red color : monitor off

Monitor Button Function

All picture, sound settings and setup can be adjusted in OSD (On Screen Display) menu. To adjust the OSD screen:

1. Press the **MENU** button to enter the **OSD MENU**
2. Press the ◄ / ► buttons to select the desired **main-MENU**. The selected **main-MENU** is highlighted
3. Press the ▲ / ▼ buttons to select the desired **sub-MENU**. The selected **sub-MENU** is highlighted
4. Change the value you wish to adjust by using the ◄ / ► buttons
5. Press the **MENU** button to confirm the adjustment on **sub-MENU**
6. Press the **MENU** button to exit the **sub-MENU** and go back to the **main-MENU**
7. Press the **MENU** button to exit the **OSD MENU**

CONTROL AND FUNCTION

Select Input Source

BNC 1
BNC 2
HDMI
VGA

Press 'SOURCE' button on monitor

Press ▲ / ▼ button to change input source and then press ◄ / ► button to select input source on monitor

Volume

VOLUME ⬛⬛⬛⬛⬛⬛ 50

⇄ MOVE [MENU] EXIT

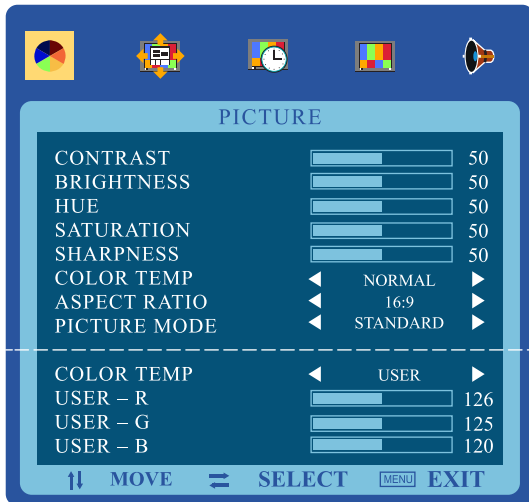Press ◄ / ► buttons to adjust volume on monitor

Detect Source Signal Message

If you connect any input source, monitor will display current input source resolution and frequency.

If monitor cannot detect any input source, monitor will display 'No Signal' message.

CONTROL AND FUNCTION

Picture

	FUNCTION	VALUE
CONTRAST	Adjust the brightness	0 ~ 100
BRIGHTNESS	Adjust the contrast	0 ~ 100
HUE [1]	Adjust the hue	0 ~ 100
SATURATION [1]	Adjust the color saturation	0 ~ 100
SHARPNESS [1]	Adjust the sharpness	0 ~ 100
COLOR TEMP	Adjust the color setting	See table below
ASPECT RATIO	Adjust the video format	See table below
PICTURE MODE	Adjust the image color setting	See table below

1) Only available in Composite (video) input

COLOR TEMP.	
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 [1]	Set custom color temperature (R,G,B : 1 ~ 255)

1) Only available in VGA input. To set custom color temperature (R, G, B values), select "USER" to set color temperature. Keep pushing 'Down' button on the monitor, then you will see Red, Green and Blue option
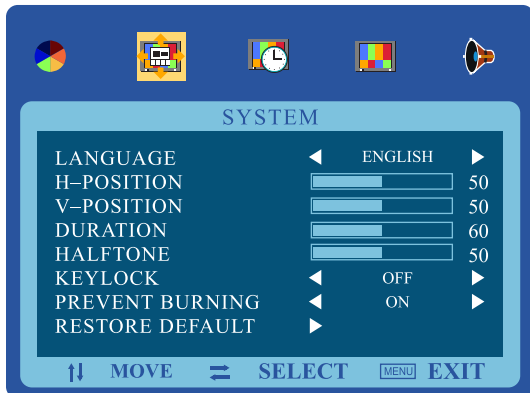
PICTURE MODE	
MILD	Reduce contrast and sharpness
USER	Apply user selected values - brightness, contrast, color and hue
DYNAMIC	Provide enhanced contrast and sharpness
STANDARD	Provide standard contrast and sharpness

SCALE	
16 : 9	Set the image size to 16 : 9
4 : 3	Set the image size to 4 : 3

CONTROL AND FUNCTION

OSD (System)

▲/▼ MOVE ◄/► SELECT(ADJUST) MENU RETURN

	FUNCTION	VALUE
OSD LANGUAGE	Set the language of the OSD menu	English, German, French Spanish, Italian, Portuguese, Polish, Russian
H-POSITION	Set the horizontal position of OSD window	1 ~ 100
V-POSITION	Set the vertical position of OSD window	1 ~ 100
DURATION	Set the OSD display time	5 ~ 60 sec
HALFTONE	Set the transparency of OSD window	1 ~ 100
PREVENT BURNING	Set periodic image retention	ON / OFF
KEY LOCK	Enable / disable the monitor button	ON / OFF
RESTORE DEFAULT	Reset the monitor settings to the factory default	

CONTROL AND FUNCTION

Advance

```
            ADVANCE
TRIGGER              ▶
DLC              ◀      ON      ▶
3D NR            ◀      MID     ▶
HSTART           ◀      500     ▶
HSIZE            ◀      500     ▶
VSTART           ◀      500     ▶
VSIZE            ◀      500     ▶
MPEG NR          ◀      HIGH    ▶

  ↑↓  MOVE    ⇄  SELECT   MENU  EXIT
```

▲/▼ MOVE ◀/▶ SELECT(ADJUST) MENU RETURN

```
            ADVANCE
TRIGGER ENABLE   ◀      ON      ▶
TRIFFER INPUT    ◀     BNC1     ▶
BUZZER           ◀      OFF     ▶
TRIGGER TIME     ▭▭▭▭▭      15
TRIGGER OPTION   ◀      LOW     ▶

  ↑↓  MOVE    ⇄  SELECT   MENU  EXIT
```
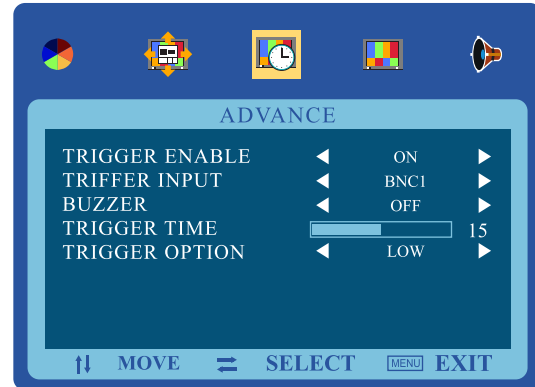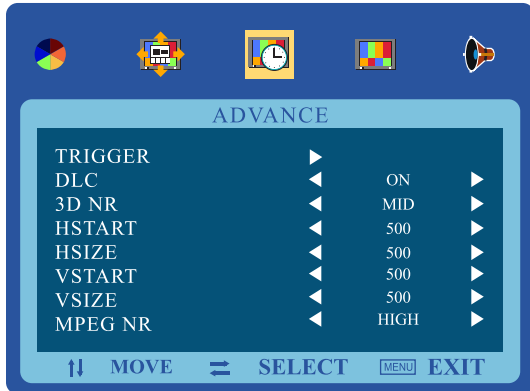
Trigger Option Window

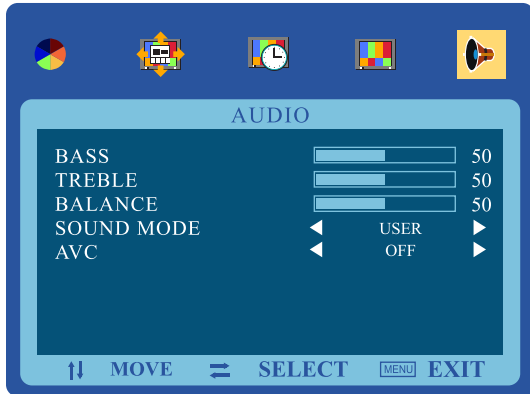| FUNCTION		VALUE
DLC	Set the automatic dynamic brightness	ON / OFF
3D NR [1]	Reduce noise of the display image	HIGH / MID / LOW / OFF
HSTART [1]	Adjust the horizontal position of display	1 ～ 1000
HSIZE [1]	Adjust the horizontal display size	1 ～ 1000
VSTART [1]	Adjust the vertical position of display	1 ～ 1000
VSIZE [1]	Adjust the vertical display size	1 ～ 1000
MPEG NR [1]	Reduces picture noise	HIGH / MID / LOW / OFF
TRIGGER	Enter the trigger setup	
TRIGGER ENABLE	Turn on the trigger	ON / OFF
TRIGGER INPUT	Select the trigger channel	BNC 1 / BNC 2 / HDMI / VGA
BUZZER	Turn on the alarm sound	ON / OFF
TRIGGER TIME	Adjust the trigger time	3 ～ 100
TRIGGER OPTION	Adjust the trigger voltage	LOW / HIGH / NO / NC
	* 'HIGH' is 3 - 5 Voltage. 'Low' is 1-3 Voltage	
	* 'NO' is normal open. 'NC' is normal close	

1) Only available in AV input

CONTROL AND FUNCTION

PC
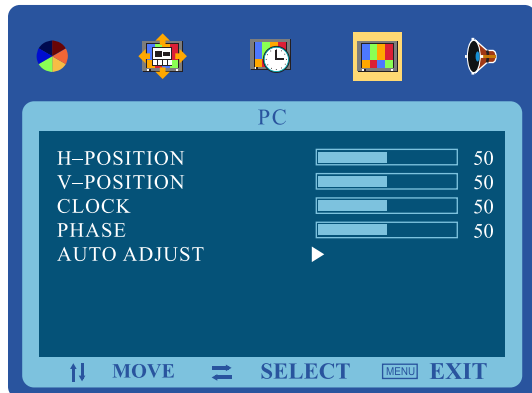
▲/▼ MOVE ◄/► SELECT(ADJUST) MENU RETURN

	FUNCTION	VALUE
H-POSITION [1]	Adjust the horizontal picture position	1 ～ 100
V-POSITION [1]	Adjust the vertical picture position	1 ～ 100
CLOCK [1]	Adjust the number of horizontal picture elements	1 ～ 100
PHASE [1]	Adjust the vertical noise of screen image	1 ～ 100
AUTO ADJUST [1]	Set the automatic position of display	

1) Only available in VGA input

CONTROL AND FUNCTION

Z

Sound

▲/▼ MOVE ◄/► SELECT(ADJUST) MENU RETURN

FUNCTION		VALUE
BASS	Adjust the bass level	0 ~ 100
TREBLE	Adjust the treble level	1 ~ 100
BALANCE	Adjust the balance	1 ~ 100
SOUND MODE	Select one of the presets	USER / STANDARD / MOVIE / MUSIC
AVC	Set the automatic volume control	ON / OFF

MOUNTING GUIDE

Wall Mounting (Optional)

VZ-RTC monitors are suitable for VESA wall mount (not included).
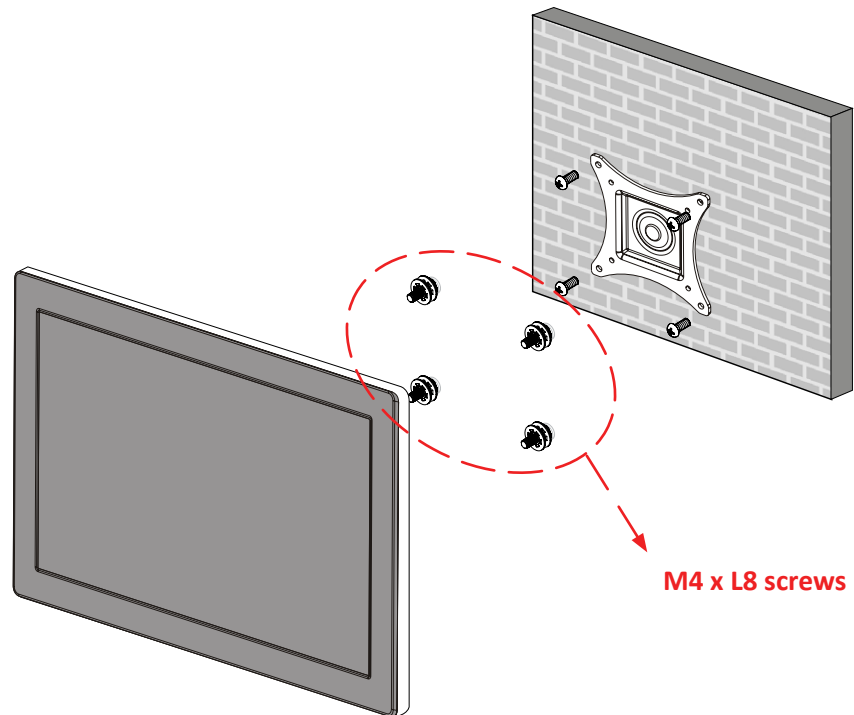
M4 x L8 screws

1. VZ-101RTC : VESA WALL MOUNT 75mm x 75mm

❗ Attention!
VZ-RTC : You must use 4 * M4 x L8 screws to assemble this monitor and the wall mount bracket.

❗ WARNING !
If user uses screws longer than M4 x L8 mm, 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.

SPECIFICATION

ViewZ

Model No.		VZ-101RTC		
Size & Type		10.1"		
LCD	Panel Type	10.1"' LED Backlit Monitor		
	Pixel Pitch	0.2175 (H) x 0.2088 (V) mm		
	Brightness	350 cd/m²		
	Contrast Ratio	600 : 1(Typ.)		
	Viewing Angle	R/L : 80°/ 80°　U/D : 75°/ 75°		
	Display Color	0.256 Million Colors		
	Response Time	≤ 12 ms		
Resolution		1024 (H) x 600 (V)		
Case Type		Black Plastic		
Active Display Area		222.72 (H) x 125.28 (V) mm		
Aspect Ratio		16 : 9		
Frequency		31-48 KHz(H) / 56-60 Hz(V)		
Color Temperature		Warm / Normal / Cool / User		
Speaker		2 x 1W		
Operating Temperature		14°F ~ 122°F / -10°C ~ 50°C		
Operating Humidity		20 ~ 70% RH		
Weight		Net : 2.86 lb / 1.3 kg		
		Gross : 3.52 lb / 1.6 kg		
INTERFACE		VIDEO (2ch input 1.0Vp-p, 75Ω terminated, 1ch loop-through out)		
		HDMI (High Definition Multimedia Interface), Trigger In		
		VGA (RGB-PC), Audio In		
Safety & EMC Certification		CE / FCC / ROHS		
Electrical Ratings		12V DC, 2A (AC 100-240V, 50/60Hz)		
Power Consumption		≤ 8 W		
Accessories		HDMI cable, Power Supply & Cable, User's Manual		

ViewZ

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 - Check brightness and see if brightness is set to 'Ø' - Check 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 / 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

ViewZ

- 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 of VIEWZ web site: VIEWZUSA.COM

Cases of Non-Warranty Coverage	When power feed to the monitor exceeds capacity and causes damage
	Accident, Abuse, Misuse, Neglect, Fire, Water/liquids, Lightning or any act of nature
	Damaged by dropping, throwing and hitting the monitor
	Failure caused by users 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 latest RMA service policy.

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

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 the sole discretion of ViewZ USA, 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
> 177 W. Orangethorpe Ave.
> Placentia, CA 92870

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.

Contact Us

NORTH AMERICA
177 W. Orangethorpe Ave.
Placentia, CA 92870
USA and Canada
Phone: 1-888-998-4399
Fax: 1-714-996-1138
Other Locations
Phone: (001) 888-998-4399
Fax: (001) 714-996-1138

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