

# Triple 2RU Rack Mount

## HD LCD Monitor



# User Manual

## Product introduction:

Thank you for using our Triple Rack Mount Color LCD Monitor.



This monitor adopts advanced integrated circuits and special TFT LED panel, which makes it low power consumption, stable performance, no radiation etc. This monitor is with HDMI, 3G-SDI, CVBS and AUDIO input, HDMI, 3G-SDI, CVBS output, Stereo headphone etc. It has a wide range of application, casing compact, simple operation, and strong compatibility. The advanced features contain Screen Marker, Pixel to Pixel, Image Flip, and Color Temp.et

**To insure best use of the unit, please read the user's manual carefully.**

## CAUTION

1. Please use the qualified power adapter to charge.
2. Do not expose this product to direct sunlight, heat or humid Conditions
3. Keep away from strong light while using this product so as to obtain the clearest and the most colorful picture.
4. Please avoid heavy impact or drop on the ground.
5. Do not use chemical solutions to clean this unit.  
Please simply wipe with a clean soft cloth to keep the brightness of the surface.
6. In order to avoid damaging the product, please do not take apart or repair the unit by yourself without adjustable component in the unit by professional staff.

# Features

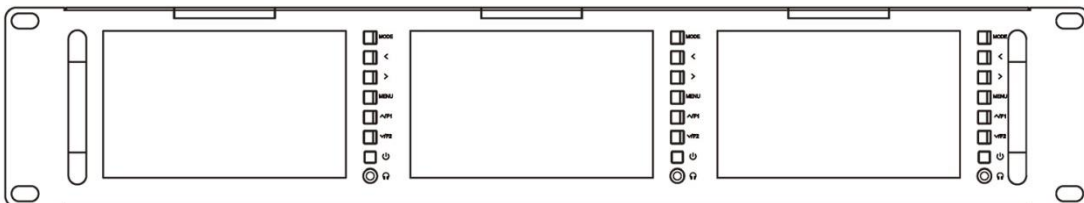
- Triple rack mount LCD monitor, compact thin and lightweight design, which make it suitable for installing where the space is limited and also could be installed in the standard 19-inch rack.
- Three-color Tally indicator.
- With VIDEO, AUDIO, HDMI, 3G-SDI input, suitable for a variety of signals.
- Custom buttons, could set the custom F button function as customers operating habit.
- With advanced functions like Center Marker, Safe Frames, Check Field, Focus Assist, Aspect Ratio, Image Flip, P2P, Image Freeze, etc.

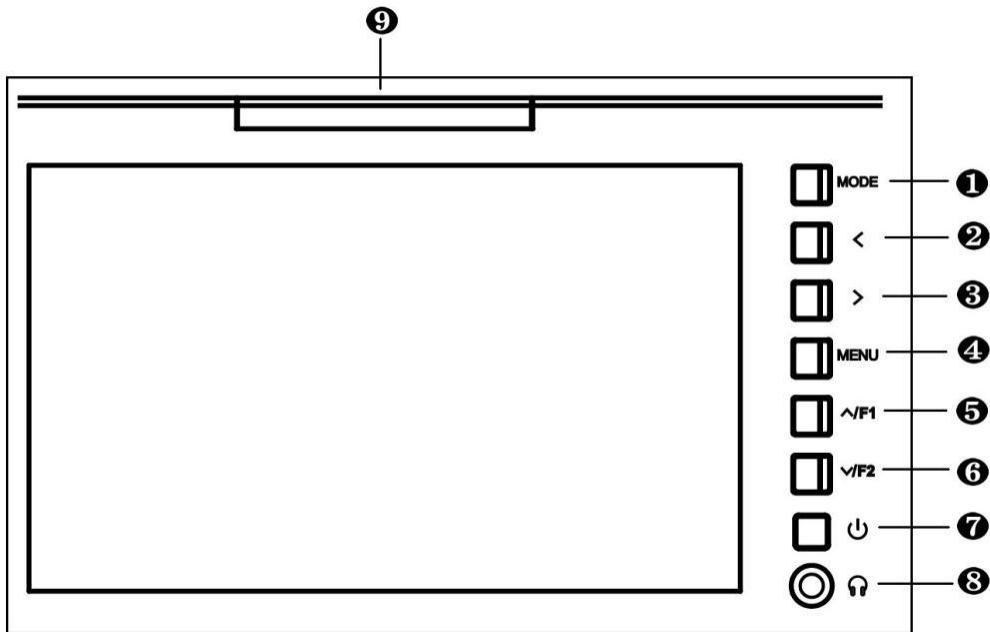
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## 1. Product description

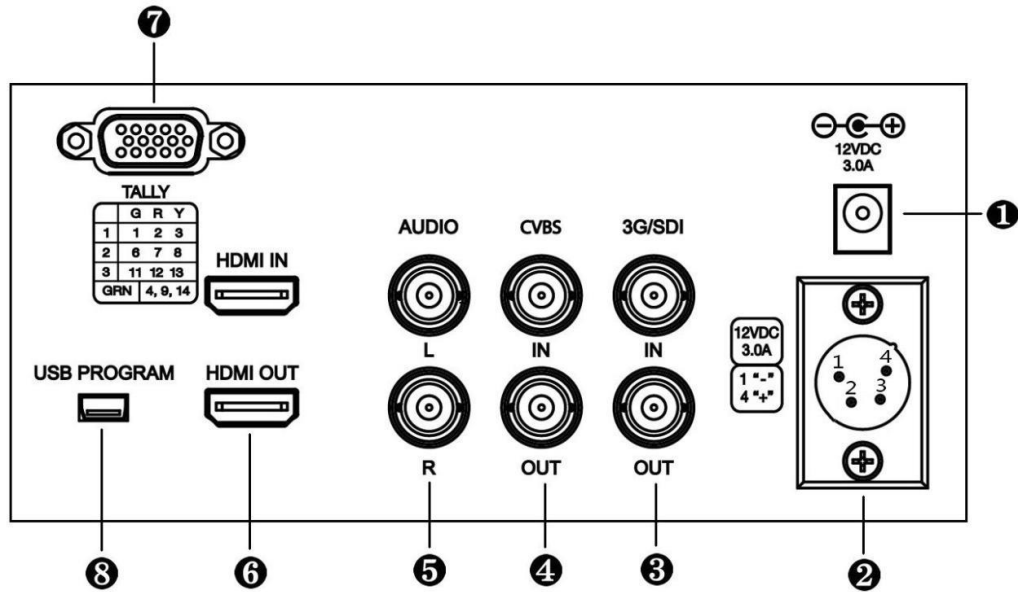
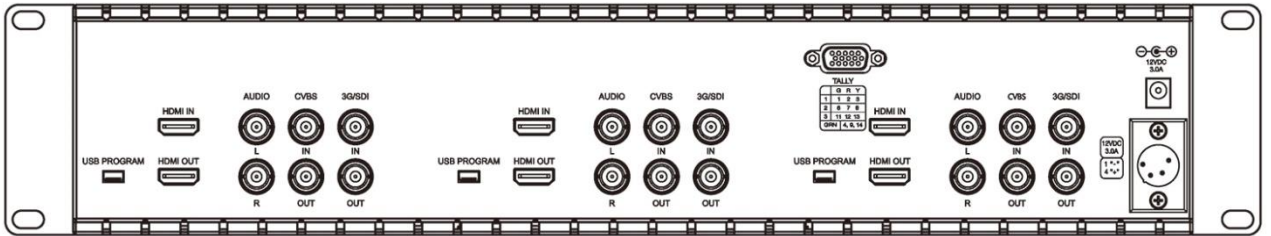
### 1.1 Front panel description (One of the them)





1. **MODE:** Signal input selection.
2. **< :** Volume down. In menu operation, it is for the adjustment of the set item.
3. **> :** Volume up. In menu operation, it is for the adjustment of the set item.
4. **MENU:** Menu button
5. **^/F1:** No menu display, it is F1 button, when enters into menu bar, it is for the up item selection.
6. **v/F2:** No menu display, it is F2 button, when enters into menu bar, it is for the down item selection.
7. **⏻:** On/Standby button
8. **🎧:** Earphone jack
9. **TALLY indicator.**

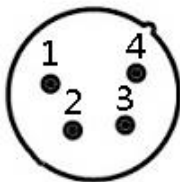
## 1.2 Rear panel description



**1. DC power input port.**



**2. 4-pin XLR DC12V power input.**



Pin number	Signal
1	GND
2	No connection
3	No connection
4	+12V

**3. 3G/SDI: input & output**

**4. CVBS: input & output**

**5. AUDIO: Audio input L / R**

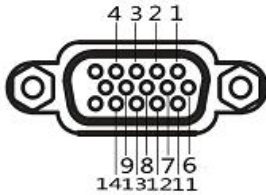
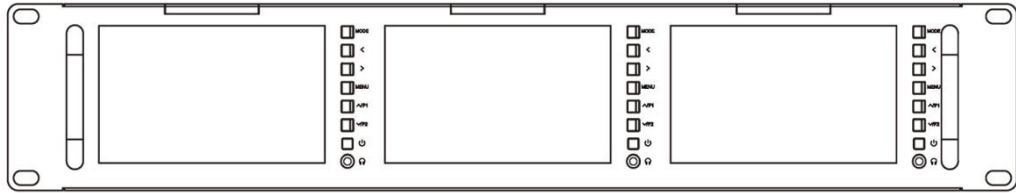
**6. HDMI: input & output**

**7. TALLY indicator input**

#1

#2

#3




Screen #1	Screen #2	Screen #3	Tally
1	6	11	Green Light
2	7	12	Red Light
3	8	13	Yellow Light
4	9	14	Ground

## 8. USB program upgrade port

## 2. Monitor operation instruction

Connect DC12V power to our monitor, the three displays light, and then customers could operate the corresponding display screen button on the panel.

### 2.1 Monitor button instruction

-   $\Rightarrow$  Corresponding display screen On/Standby button
- MODE**  $\Rightarrow$  Signal input selection

**MENU** ⇨ Menu button

> ⇨ Earphone volume up.

In Menu operation, it is for menu bar



In secondary menu, it is as function selection or increase the value of the analog.

< ⇨ Earphone volume down.

In menu operation, it is for menu bar



In secondary menu, it is as function selection or decrease the value of the analog.

^/F1 ⇨ No menu display, it is F1 custom button.

After enter into secondary menu operation, it is for the up item selection.

v/F2 ⇨ No menu display, it is F2 custom button.

In menu operation, press < , > button to select



into the secondary menu.

In secondary menu operation, it is for the down item selection.

**F1/ F2** ⇨ Custom button, select F1/ F2 in F menu, then press > or < button to pop-up F button function and select (Center Marker, Safe Frames, Check Field, Focus Assist, Aspect Ratio, Image Flip, P2P, Image Freeze), then use ^/F1 or v/F2 button to set one of them as F1 button function, press

“MENU” button to confirm, and then press  $\vee$ /F2 button to enter F2 button custom operation.

## 2.2 Menu instruction

Press MENU button to pop-up menu, and press  $\lt$  or  $\gt$  button to enter menu selection, then press  $\vee$ /F2 button to enter secondary menu, and then use  $\wedge$ /F1 or  $\vee$ /F2 button to select the menu item, after enter into secondary menu, use  $\gt$  or  $\lt$  button to adjust item parameters, press MENU button to exit.



### Image Color





※ **Pic. Mode:** Standard, Dynamic, Mild, User.

Select “User” to adjust Brightness, Contrast,  
Saturation Sharpness according to the site situation.

※ **Brightness:** To adjust image's brightness.

※ **Contrast:** To adjust the brightest and the darkest ratio  
of the image, please note the sense of picture will  
make the picture lose the color when adjust proportion  
too high or low.

※ **Saturation:** To adjust color concentration.

※ **Sharpness:** Also called ‘Resolution’, is an indicator for  
the image plane definition and image edge sharpness.  
If sharpness is higher, then the details contrast on the  
image is higher, the image is more clearly.

※ **Color Temp.:** 6500, 9300, User. When select “User”,  
adjust the R/G/B to meet the different user's  
requirement for the different Color Temp.

※ **Tint:** On NTSC video mode, color tint is adjusted by  
Tint.



## Setting

### ● Menu of Page One



※ **Language:** Language for OSD:

English, 中文, Español, Português,  
Français, Nederlands, Deutsch, 日本語

※ **Aspect Ratio:** To change the aspect ratio

Panorama, Just Scan, Zoom 1, Zoom 2, 16:9, 4:3 ,  
Autom

※ **No Signal:** Color options of screen background when no  
signal: Blue Screen, Red Screen, Green Screen, Black  
Screen, White Screen

※ **OSD Trans.:** To adjust the level of transparent.

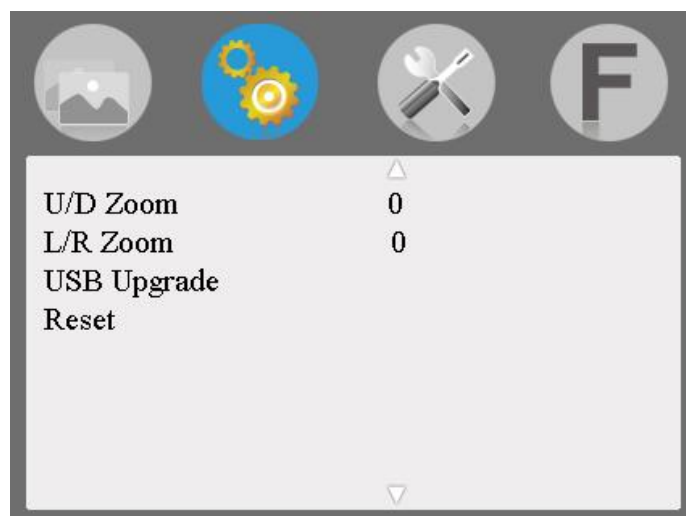
※ **OSD H:** To adjust the OSD position in horizontal.

※ **OSD V:** To adjust the OSD position in vertical.

※ **Zoom All:** Select this function and use “ < ” or “ > ” button  
to adjust the image to Zoom In or Zoom Out separately.

※ **OSD Time:** Menu display time selection:  
30s ,20s、 10s, Off.

### ●Menu of Page two



※ **U/D Zoom:** Press “ < ” or “ > ” button, to adjust the

proportion of the image Up and Down to Zoom In or Zoom Out.

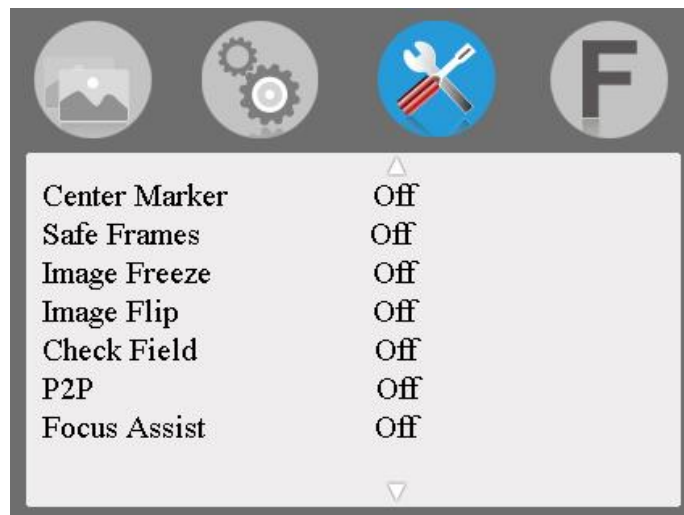
※ **L/R Zoom** Press “ < ” or “ > ” button, to adjust the proportion of the image Left and Right to Zoom In or Zoom Out.

※ **USB Upgrade:** When need to upgrade the native data application software, copy the file to the U disk, then through the USB cable to connect with upgrade USB port, press “ > ” key to confirm. After the upgrade, monitor will automatically restart. Do NOT plug a USB cable into this connector without contacting the factory.

※ **Reset:** Press “ > ” button, back to original setting.



## Function



※ **Center Marker:** To set center mark (cross mark) display.

※ **Safe Frames:** To adjust screen marker

(off, 96%, 93%, 90%, 85%, 80%, 2.35:1)

※ **Image Freeze:** The current picture still (capture function)

※ **Image Flip:** The H\_V Flip, H Flip, V Flip of the image around flip.

- ※ **Check field:** To switch among Color, Mono, Red, Green, Blue.
- ※ **P2P:** The display mode makes the resolution of the image consistent with display of the physical resolution.
- ※ **Focus Assist:** Under HDMI input, select this function, Peaking (Superimpose red highlight over parts of the monochrome image in focus), could be used as focus auxiliary function in camera viewfinder.



### Shortcut button setting



- ※ **F1:** Custom button, Choose F1, press “<” or “>” button to pop-up (Center Marker, Safe Frames , Check Field, Focus Assist, Image Freeze, Aspect Ratio, Image Flip , P2P, Image Freeze) and use “^/F1” or “v/F2” to set one of them as definition function. Press “MENU” to confirm.
- ※ **F2:** Custom button, see F1

## 3. Technical parameters

<b>Panel Size</b>	<b>5.0inch</b>
<b>Panel Type</b>	<b>TFT LCD</b>
<b>Resolution</b>	<b>800x480x3(RGB)</b>
<b>Backlight</b>	<b>LED</b>
<b>Dot Pitch</b>	<b>0.045(W) x 0.135 (H) mm</b>
<b>Aspect Ratio</b>	<b>16:9</b>
<b>Brightness</b>	<b>500cd/m<sup>2</sup></b>
<b>Contrast</b>	<b>500:1</b>
<b>Response Time</b>	<b>T<sub>ON</sub>=10ms; T<sub>Off</sub>=15ms</b>
<b>Viewing Angle</b>	<b>70°/70°(L/R) 50°/70°(U/D)</b>
<b>Input Signal</b>	<b>HDMI/ 3G-SDI/ Video/ Audio(L/R)</b>
<b>Output signal</b>	<b>HDMI/ 3G-SDI/ Video</b>
<b>Color Video Format</b>	<b>PAL-4.43 / NTSC-3.58</b>
<b>HDMI Support Format</b>	<b>480i /480p /576i /576p 720p (60/59.94/50/30/29/25/24/23.98) 1080i (60/59.94/50) 1080p(60/59.94/50/30/29.97/25/24/24fps/23.98/23.98fps)</b>
<b>SDI Support Format</b>	<b>480i/576i 720p(60/59.94/50/30/29/25/24/23.98) 1080i(60/59.94/50) 1080p(60/59.94/50/30/29.97/25/24/24fps/23.98/23.98fps)</b>
<b>Headphone Output</b>	<b>Stereo headphone output 3.5 mm interface</b>
<b>Input Voltage</b>	<b>DC: 9.0 ~ 24.0V</b>
<b>Power Consumption</b>	<b>≤25W</b>
<b>Unit Size (mm)</b>	<b>482.6Lx88Hx34D mm</b>
<b>Unit Weight</b>	<b>≈1570g</b>
<b>Working Temperature</b>	<b>- 20 ~ 55°C</b>
<b>Storage Temperature</b>	<b>- 30 ~ 65°C</b>

#### 4. Trouble Shooting

#### **4.1 Only Mono or Single color picture:**

- ① Please check **Saturation, Brightness & Contrast** adjustment.
- ② Please check monitor color from the menu "**Check Field**" is in Mono image or in other single color state.

#### **4.2 NO image after put on the power**

- ① Check if signal cable connection is in good condition, also need  
to check if the monitor is synchronized with the input signal,  
press "**MODE**" button to have a try.
- ② Make sure to use the standard adapter to connect the monitor.

#### **4.3 No Sound**

- ① Volume control did not open, can press the volume button and try increasing the volume.
- ② Check the AUDIO input and ensure there is AUDIO signal.

#### **■ Remark:**

- ★If there are still other problems, please contact with our related technical persons.
- ★If there are changes without prior notice.



# Certificate of Compliance

## EMC DIRECTIVE 2014/30/EU

**Certificate Number:** TMC170418106E-1  
**Applicant:** Zhangzhou Seetec Optoelectronics Technology co.,Ltd  
**Address of Applicant:** No.9A, Fuxing Industrial Park, No.9th, Jinmin Road, Jinfeng Development Zone, Zhangzhou, Fujian, China  
**Manufacturer:** Zhangzhou Seetec Optoelectronics Technology co.,Ltd  
**Address of Manufacturer:** No.9A, Fuxing Industrial Park, No.9th, Jinmin Road, Jinfeng Development Zone, Zhangzhou, Fujian, China  
**Product Name:** 2RU 5" Rack mount monitor  
**Model Number:** T51, T51-H, T52  
Sufficient samples of the product have been tested and found to be conformity with  
**Test Standard:** EN 55032:2012/AC:2013  
EN 55020:2007+A11:2011  
EN 61000-3-2:2014  
EN 61000-3-3:2013  
**As Shown in the Test Report Number:** TMC170418106E-1

### Conclusion

This Certification of EMC Compliance has been granted to applicant based on the results of tests, performed by Laboratory of TMC Testing Services (Shenzhen) Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards and the EMC Directive (2014/30/EU). It is possible to use CE marking to demonstrate the compliance with this Directive.



*For and behalf of*  
*General Manager*  
*Lehon Rao*

Issued in Shenzhen  
On April 21, 2017

*The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report above mentioned. Copyright of this certification is owned by TMC and may not be reproduced other than in full and with the prior approval of the General Manager.*

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