

13.3"/ 15"/ 17.3"/ 21.5"/23.8"

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## Broadcast LCD Monitor

Carry-on/ Desktop Optional



# User Manual



## **Product Overview**

Thank you for using our photography, broadcast color LCD monitor. This monitor adopts digital signal processing circuit and professional LCD screen, which makes it high brightness, low power consumption, stable performance etc. It also has strong compatibility, adjustable color temperature control. Its advanced features include: Peaking Focus Assist, Check Field, Camera Mode, Pixel to Pixel, Center Marker, Screen Marker, Image Flip, etc. It is an ideal NLE (Nonlinear Edit) matching monitor.

To meet different customers' needs, our monitor has SDI (optional), HDMI, YPbPr, DVI, Video, and Audio (L/R) interfaces.

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

### **CAUTION**

1. Please use the adapter in the accessory, and use the qualified battery if need.
2. Please do NOT expose this product directly in the sunlight, heat, and humid conditions.
3. Please keeps the monitor away from the strong light while using this product to ensure the image effect and long-term use.
4. Please avoid heavy impact or drop onto the ground.
5. Please do NOT use chemical solutions to clean this product. Please wipe the monitor with a clean soft cloth to maintain the brightness of the surface.
6. To avoid damaging the product, please do not take apart or repair the unit by yourself without adjustable component in the unit.

# Product Feature

- ✧ Support 4K HDMI input/ output  
UHD 4K 3840×2160p (30/29.97/25/24/23.98 Hz)  
4096×2160p (24Hz)
- ✧ Peaking Focus Assist function
- ✧ Check Field: To switch among Mono, Red, Green, Blue.
- ✧ Camera Mode Function
- ✧ Pixel to Pixel
- ✧ Screen Center Marker (cross mark) display setting
- ✧ Screen Marker: 96%, 93%, 90%, 85%, 80%, 2.35:1
- ✧ Image Flip: The H\_V Flip, H Flip, V Flip of the image around flip
- ✧ Image Freeze: The current picture still (capture function)
- ✧ Image magnification function (Zoom All)
- ✧ U/D & L/R Zoom
- ✧ Panel buttons F function custom settings
- ✧ LED backlight, Image display more brighter, screen does not flicker.
- ✧ Front panel stereo earphone output, built-in speaker
- ✧ Multiple signal output port, flexible use

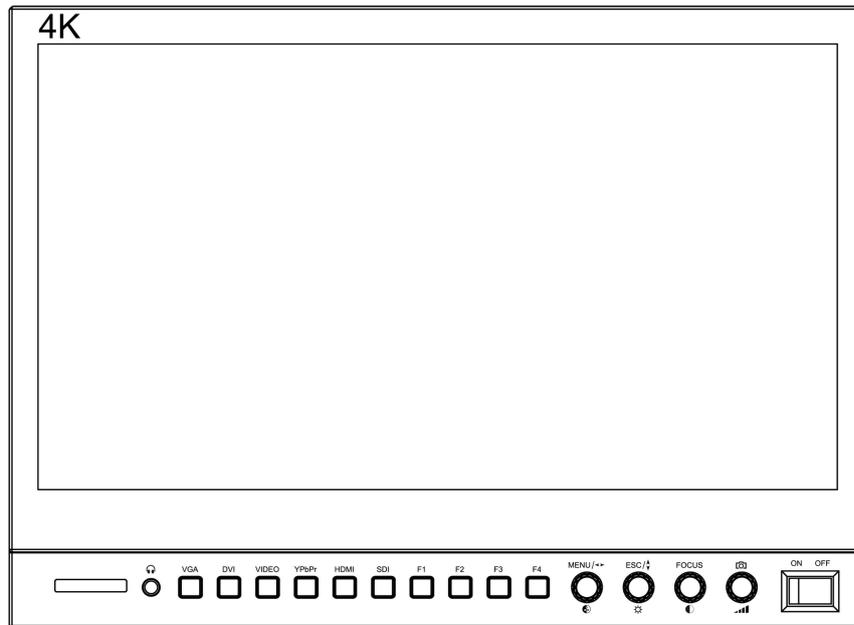
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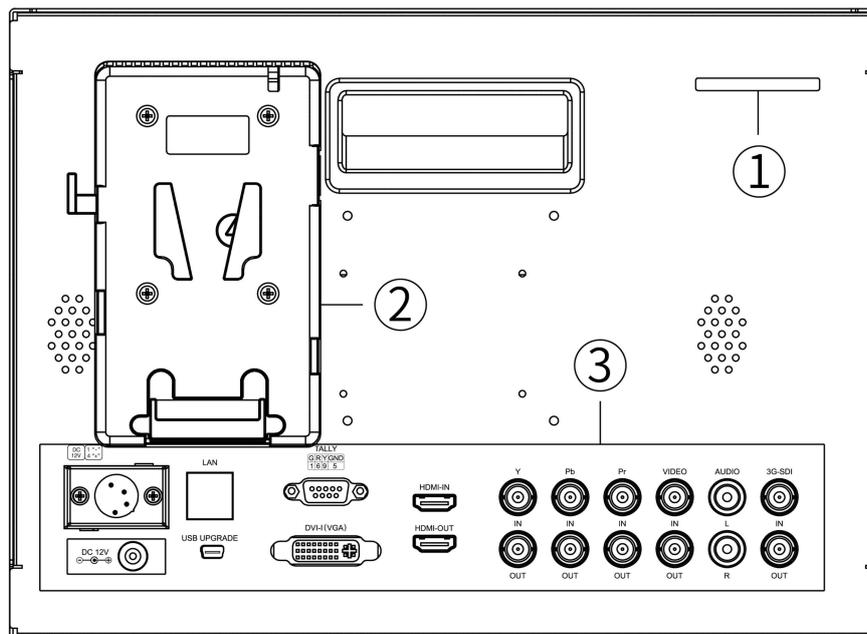
# 1. Product Description (Take 13.3" as an example)

**Note:** Different sizes are slightly different in appearance, please refer to the actual product.

## 1.1 Front Panel

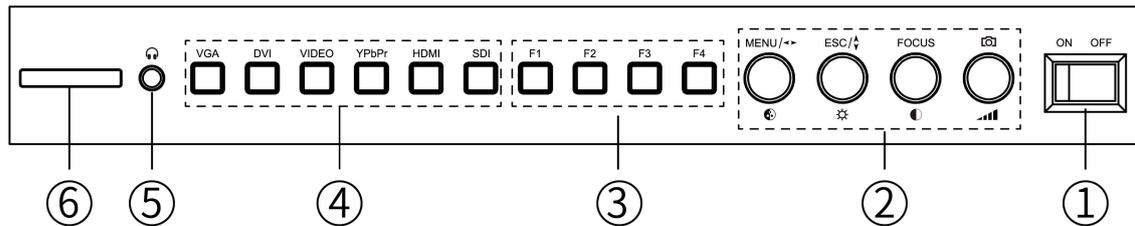


## 1.2 Rear Panel



- ①. Tally Indicator
- ②. Battery Plate
- ③. Interfaces (See below Rear Interfaces Instruction)

### 1.3 Panel Button Instruction



- ①. Power ON/ OFF
- ②. Multifunctional Knobs

Knobs	Function when OSD is not displayed	Function when OSD is displayed
	Rotate knob to adjust image Saturation. Press it to enter the OSD menu.	Rotate knob to select or adjust the selected menu item. Press it to exit (confirm) the current menu settings.
	Rotate knob to adjust image Brightness.	Rotate knob to select menu items up or down. Press it to exit the OSD menu.
	Rotate knob to adjust image Contrast. Press it to enter "Focus Assist" function.	/
	Rotate knob to adjust Volume. Press it to enter "Camera Mode" Function.	/

- ③. User-Definable Function Buttons



- ⑨. Tally (indicator) signal input
- ⑩. USB upgrades port
- ⑪. The direct DC plug-in power input port supply
- ⑫. 4-pin XLR DC power input

### 1.5 Power Input Way

There are three ways of power supply to our monitor:

#### a. Powered by the direct plug-in power input port supply.

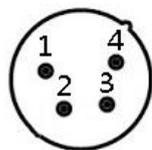
Please select DC power plug supply and the polarity is as image below:



#### b. Via 4 pin XLR interface power supply, to share power with the camera

or via power adapter input.

Polarity of the 4-pin XLR power input as below image, please note the polarity of the power input, otherwise it may damage monitor.



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

#### c. Add battery to the monitor battery plate to supply the power.

The product back case including battery plate is available for two types of batteries. Customers can choose different battery plates according to their needs. (If the customers have no requirement on the battery, the factory assembles Sony V-Mount Plate by default).

### 1.6 Battery Plates



**Panasonic Anton Plate**



**Sony V-Mount Plate**

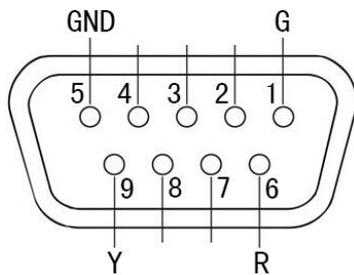
We assemble the suitable battery plate for the customers according to the different requirements of the batteries. If the customers have no requirement on the battery, the factory assembles Sony V-Mount Plate by default.

**Remark:** According to the different specification of the battery, the capability is different, and the working time for the monitor will be different. Higher capability (working time) will be longer.

Without the charging circuit design for the monitor, please remove the battery to charge with the battery charger.

**Suggestion:** Better to remove the battery if don't use this product in a long time.

### 1.7 TALLY Indicator Connection



Indicator colors	Pin connection
Green	1-5
Red	6-5
Yellow	9-5

### 1.8 Carry-on/ Desktop Optional

#### (1) Carry-on



## (2) Desktop (U Bracket)



## (3) Desktop (Stand Feet)



## 2. Menu Operation Instruction

After the monitor is properly connected to the power, turn on the monitor power switch.

**2.1** Press “MENU” button to enter OSD main menu, and turn the knob  to the

right to select the secondary menu.



2.2 Turn the knob  to the right to enter the secondary menu

Rotate the knob  to select the item in the secondary menu.

	▲
Pic. Mode	User
Brightness	50
Contrast	50
Saturation	50
Sharpness	15
Color Temp.	User
Red	128
Green	128
	▼

2.3 After select the item in the secondary menu, rotate the knob  to adjust the item parameters.

2.4 Press "ESC" knob to exit the menu.

### 3. Menu Function Instruction



<b>Pic. Mode</b>	<b>Standard, Mild, User, Dynamic</b> Under "User", you can adjust the <b>Brightness (0 ~ 100)</b> , <b>Contrast (0 ~ 100)</b> , <b>Saturation (0 ~ 100)</b> , and <b>Sharpness (0 ~ 100)</b> .
<b>Color Temp.</b>	<b>6500, 9300, User</b> Under "User", you can adjust the <b>Red</b> , <b>Green</b> and <b>Blue</b> values of the image.
<b>Tint</b>	<b>0~100</b>



<b>Language</b>	English、简体中文、Español、Português、Français、Nederlands、Deutsch、日本語、繁體中文、Türkçe
<b>Aspect Ratio</b>	Auto, 4:3, 16:9, Just Scan, Panorama, P2P
<b>No Signal</b>	Blue Screen, Red Screen, Green Screen, Black Screen, White Screen,
<b>VGA Self-adj</b>	This function can be realized under DVI to VGA signal.
<b>OSD Trans.</b>	Off, Low, Middle, High
<b>OSD H</b>	0~100
<b>OSD V</b>	0~100
<b>OSD Time</b>	Off, 10Sec, 20Sec, 30Sec
<b>Camera Mode</b>	Off, 480P, 1080i
<b>Backlight</b>	0~100
<b>USB Upgrade</b>	Copy the file to the U disk, then through the USB cable to connect with upgrade USB port, then rotate <b>◀▶</b> to confirm. After the upgrade, monitor will automatically restart. Do NOT plug a USB cable into this connector without contacting the factory.
<b>Reset</b>	Rotate <b>◀▶</b> button, back to original setting.



<b>Nine Grid Zoom</b>	Off, On
<b>Zoom</b>	Off, 4X, 9X, 16X
<b>Zoom Mode</b>	Off, Mode1, Mode2 In Mode 1 and Mode 2, you can customize the Zoom All (0-100), L/R Zoom (0-100), and U/D Zoom (0-100).

Scan Mode	Under Scan, Over Scan
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Center Marker	Off, On
Safe Frames	Off, 80%, 85%, 90%, 93%, 96%, 2.35:1
Nine Grid	Off, On
Image Freeze	Off, On
Image Flip	Off, H Flip, V Flip, H_V Flip
OSD Flip	Off, On
Anamorphic	1.3X、 2.0X、 2.0X MAG Under the <b>User</b> , can be customized (1.20X~2.00X) Allows you to use anamorphic lenses or adapters and see the image unsqueezed, even if your camera does not de-squeeze in camera.
Check Field	Off, Mono, Red, Green, Blue,
Focus Assist	Off, On Superimpose red highlight over parts of the monochrome image in focus.



F1~F4	Center Marker, Safe Frames, Check Field, Focus Assist, Aspect Ratio, Image Flip, Nine Grid, Image Freeze, Zoom, Anamorphic, Backlight, Color Temp., VGA Self-adj Choose F, rotate ◀▶ button, then rotate ▲▼ button to select one of options as definition function. Press “MENU” button to
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	confirm and rotate  button back to next F setting.
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### 4. Support Signal Formats

Video Signals	Support signal formats
<b>Video</b>	PAL/NTSC auto recognize
<b>HDMI</b>	480i/576i/480p/576p 720p (60/59.94/50/30/29.97/25/24/23.98) 1080i (60/59.94/50) 1080P(60/59.94/50/30/29.97/25/24/24sF/23.98/23.98sF) 4K UHD 3840×2160p (30/29.97/25/24/23.98Hz) 4096×2160p (24Hz)
<b>SDI</b>	480i/576i 720p (60/59.94/50/30/29/25/24/23.98) 1080i (60/59.94/50) 1080p (60/59.94/50/30/29.97/25/24/24sF/23.98/23.98sF)

### 5. Parameters

Panel Size	13.3"	15.0"	17.3"	21.5"	23.8"
<b>Resolution</b>	1920×1080	1024×768	1920×1080	1920×1080	1920×1080
<b>Dot Pitch (mm)</b>	0.1533× 0.1533	0.297×0.297	0.1989× 0.1989	0.24825× 0.24825	0.2745× 0.2745
<b>Aspect Ratio</b>	16:9	4:3	16:9	16:9	16:9
<b>Brightness</b>	400cd/m <sup>2</sup>	350cd/m <sup>2</sup>	300cd/m <sup>2</sup>	250cd/m <sup>2</sup>	250cd/m <sup>2</sup>
<b>Contrast</b>	1000:1	800:1	700:1	3000:1	1000:1

<b>Viewing Angle</b>	85°/85°(L/R)	80°/80°(L/R)	89°/89°(L/R)	80°/80°(L/R)	89°/89°(L/R)
	85°/85°(U/D)	80°/80°(U/D)	89°/89°(U/D)	60°/80°(U/D)	89°/89°(U/D)
<b>Backlight</b>	LED				
<b>Inputs</b>	3G-SDI (Optional), HDMI, YPbPr, Video, Audio(L/R), DVI-I				
<b>Outputs</b>	3G-SDI (Optional), HDMI, YPbPr, Video, Stereo Headphone, Speaker				
<b>Input Voltage</b>	DC 9~24V				
<b>Power Consumption</b>	≤ 12W	≤ 15W	≤ 26W	≤ 15W	≤ 24W
<b>Special Function</b>	TALLY Indicators				
<b>Working</b>	-10°C ~ 50°C				
<b>Storage</b>	-20°C ~ 60°C				
<b>Unit Size</b>	315.5×231	331.1×282.6×3	426×297	511.6×355.5×4	567×372×46.7m
	×26.4 mm	3.8 mm	×35.1 mm	1.87 mm	m
<b>Unit Weight</b>	≈1640g	≈2070g	≈2750g	≈4650g	≈5900g

## 6. Trouble Shooting

If there is any problem when using the unit, please try following ways to inspect and solve. Please contact us if you still cannot solve it or have other problems.

● Without image display	Trouble shooting
◆ Video cable off or connect incorrectly	Check the quality of the cable, make sure the correct input interface
◆ Without video signal input	Check the signal source and output interface connect is corrected or not
◆ Monitor cannot be powered on	Check whether the power is connected, put the power switch to “on” position

◆ Supply voltage instability	The power adapter or battery is poor connected with battery plate
◆ self-contained power supply, polarity connect inversely	Reference "Power input way" reconnect

◆ Image/color display abnormal	Trouble shooting
◆ Video cable poor contact	Change video cable, try again
◆ Video signal interfered by external environment	Move to another environment to try again
◆ Video input signal amplitude too low	Check signal source video output, or change signal source and have a try.
◆ Menu color saturation adjustment closing	Enter menu to check color, or reset to factory settings
◆ Check Field set in mono or black & white	Reset Check Field, back to the color
◆ Image deformation	Reset the image ratio

◆ Speaker without sound	Trouble shooting
◆ Audio cable off or improper connection	Confirm connected with the corresponding input port
◆ Volume adjustment was closed	Reset the volume control and adjust to a proper position
◆ HDMI cable poor Connected	Check the quality of cable, or change cable and have a try
◆ No sound after switch video signal	This monitor is with audio signal only in audio input and HDMI state

■ **Remark:**

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



