

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

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.

Cautions

1. Please avoid drop onto the ground and lead to the device broken when move the product.
 2. The screen of this product is made of glass, please keep away from injury if the screen is broken.
 3. Keep the product away from the heat source. Avoid the prolonged exposures to the sun as the LCD screen will be damaged.
 4. To avoid damaging the product, please do not take apart or repair the unit by yourself without the adjustable components in the unit.
- To protect the screen or housing better, please follow these ways as below to avoid the damages:

Please refrain from using the hard objects to hit the screen

Please do not force to wipe the screen or housing

Please do not use the chemical solutions to clean the screen or housing

Please do not spray any detergent on the screen or housing

Please do not write on the screen directly

Please do not stick anything on the screen or housing

Please simply wipe with a clean soft cloth and make sure no water on the

screen or housing

Vorsichtsmaßnahmen

1. Bitte vermeiden Sie den Fall auf den Boden und führen Sie zum gebrochenen Gerät, wenn Sie das Produkt bewegen.
 2. Der Bildschirm dieses Produkts besteht aus Glas, halten Sie sich bitte von Verletzungen fern, wenn der Bildschirm gebrochen ist.
 3. Halten Sie das Produkt von der Wärmequelle fern. Vermeiden Sie längere Sonneneinstrahlungen, da der LCD-Bildschirm beschädigt wird.
 4. Um Beschädigungen des Produkts zu vermeiden, nehmen Sie bitte das Gerät nicht ohne die einstellbaren Komponenten im Gerät auseinander oder reparieren Sie es nicht selbst.
- Um den Bildschirm oder das Gehäuse besser zu schützen, folgen Sie bitte diesen Wegen wie unten, um die Schäden zu vermeiden:

Bitte unterlassen Sie die Verwendung der harten Objekte, um den Bildschirm zu treffen

Bitte zwingen Sie nicht, den Bildschirm oder das Gehäuse zu wischen

Bitte verwenden Sie die chemischen Lösungen nicht, um den Bildschirm oder das Gehäuse zu reinigen

Bitte sprühen Sie kein Reinigungsmittel auf den Bildschirm oder das Gehäuse

Bitte schreiben Sie nicht direkt auf den Bildschirm

Bitte kleben Sie nichts auf den Bildschirm oder das Gehäuse

Bitte wischen Sie einfach mit einem sauberen weichen Tuch ab und stellen Sie sicher, dass kein Wasser auf dem Bildschirm oder Gehäuse vorhanden ist.

Précautions

1. Lorsque vous déplacez le produit, évitez de tomber sur le sol et de causer des dommages à l'équipement.
2. L'écran de ce produit est en verre, s'il vous plaît rester loin de la foule si l'écran est

cassé.

3. Gardez le produit loin de la source de chaleur. Évitez l'exposition prolongée au soleil, car l'écran LCD peut être endommagé.
 4. Pour éviter d'endommager le produit, veuillez ne pas démonter ou réparer l'unité vous - même sans pièces réglables à l'intérieur de l'unité.
- Afin de mieux protéger l'écran ou le boîtier, veuillez suivre les méthodes ci - dessous pour éviter les dommages:

S'il vous plaît ne pas frapper l'écran avec des objets durs

Veuillez ne pas forcer l'écran ou le boîtier

Veuillez ne pas utiliser de solutions chimiques pour nettoyer l'écran ou le boîtier

Veuillez ne pas pulvériser de nettoyant sur l'écran ou le boîtier

S'il vous plaît ne pas écrire directement sur l'écran

Veuillez ne rien coller à l'écran ou au boîtier

Precauzioni

1. Please evitare di cadere a terra e portare al dispositivo rotto quando spostare il prodotto.
 2. Lo schermo di questo prodotto è fatto di vetro, si prega di tenere lontano da lesioni se lo schermo è rotto.
 3. Tenere il prodotto lontano dalla fonte di calore. Evitare l'esposizione prolungata al sole poiché lo schermo LCD sarà danneggiato.
 4. Per evitare di danneggiare il prodotto, non smontare o riparare l'unità da soli senza i componenti regolabili nell'unità.
- Per proteggere meglio lo schermo o l'alloggiamento, si prega di seguire questi modi come di seguito per evitare i danni:

Si prega di astenersi dall'utilizzare gli oggetti duri per colpire lo schermo

Si prega di non forzare a pulire lo schermo o l'alloggiamento

Si prega di non utilizzare le soluzioni chimiche per pulire lo schermo

ol'alloggiamento

Si prega di non spruzzare alcun detergente sullo schermo o

sull'alloggiamento

Si prega di non scrivere direttamente sullo schermo

Si prega di non attaccare nulla sullo schermo o sull'alloggiamento

Precauciones

1. al mover el producto, evite caer al suelo, causando daños al equipo.
2. la pantalla de este producto está hecha de vidrio, si la pantalla está rota,
Manténgase alejada de la multitud.
3. mantenga el producto alejado de la fuente de calor. Evite la exposición prolongada al sol, ya que la pantalla LCD puede dañarse.
4. para evitar daños al producto, no desmontar o reparar la unidad por sí mismo sin componentes ajustables dentro de la unidad.

- Para proteger mejor la pantalla o la carcasa, siga los siguientes métodos

para evitar daños:

Por favor, no golpee la pantalla con objetos duros

No limpie a la fuerza la pantalla o la carcasa

No use una solución química para limpiar la pantalla o la carcasa

No rocíe ningún detergente en la pantalla o en la carcasa

Por favor, no escriba directamente en la pantalla

Por favor, no pegue nada a la pantalla o a la carcasa

Limpie simplemente con un paño suave limpio y asegúrese de que no

haya agua en la pantalla o en la carcasa.

Product Feature

- ✎ Support 4K HDMI input/ output
- ✎ Peaking Focus Assist function
- ✎ Check Field: To switch among Mono, Red, Green, Blue.
- ✎ Anamorphic (1.33x, 1.6x, 2.0x, 2.0x MAG, User)
- ✎ Safe Frames (80%, 85%, 90%, 93%, 96%, 2.35:1)
- ✎ 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)
- ✎ Zoom Mode (2X, 4X, 9X, 16X, user)
- ✎ 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

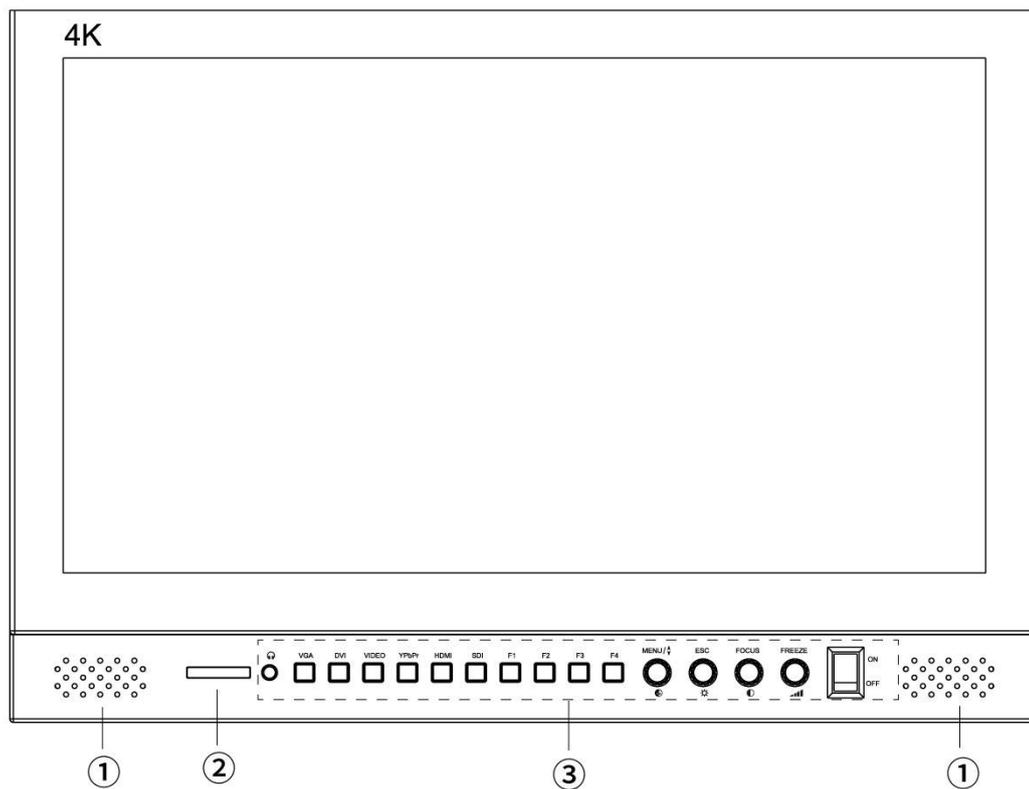
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1. Product Description (Take 17.3" as an example)

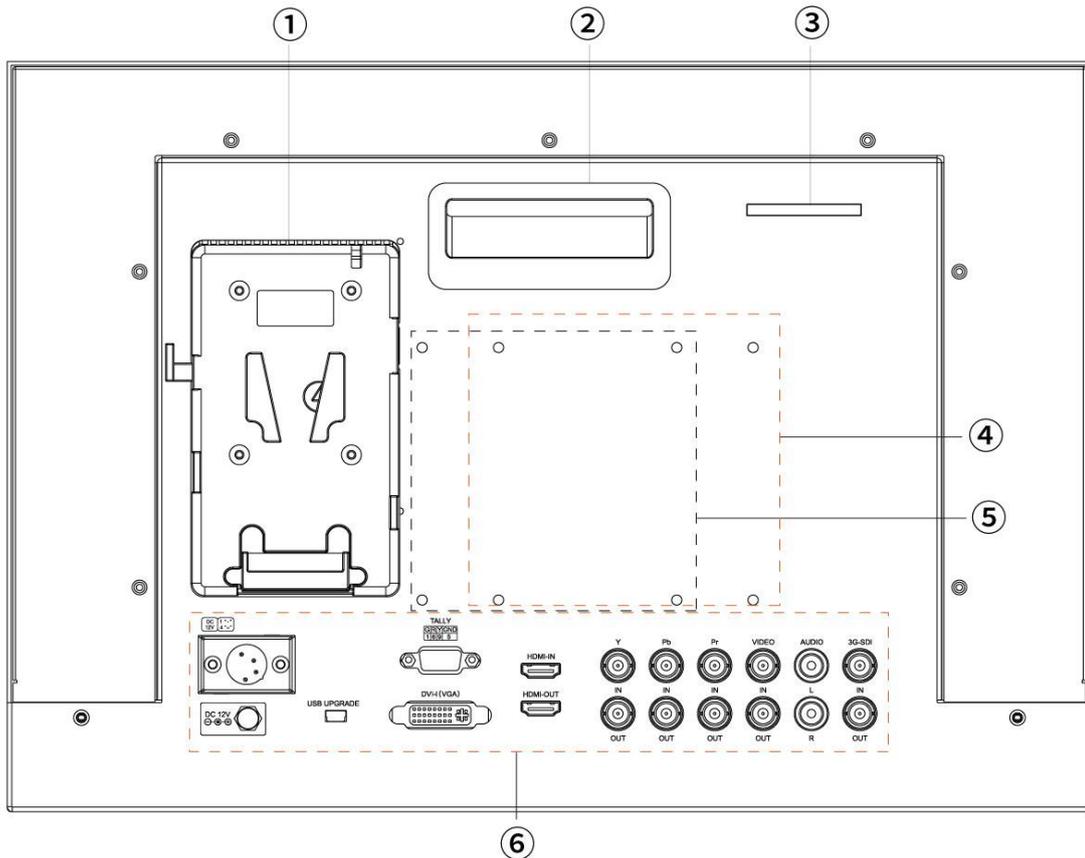
Note: Different sizes are slightly different in appearance, please refer to the actual product.

1.1 Front Panel



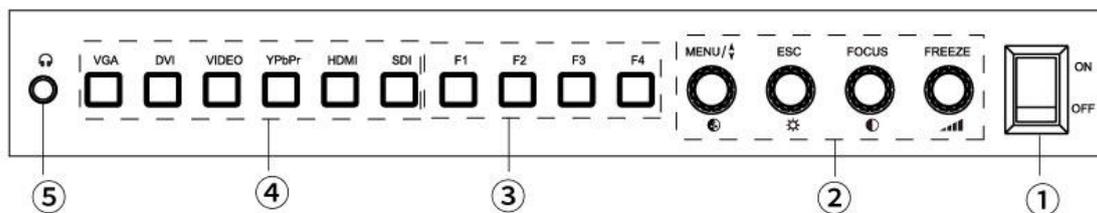
- ①. Speaker
- ②. Tally Indicator
- ③. Buttons(see 1.3 Button Instruction)

1.2 Rear Panel



- ①. Battery Plate (see 1.6 Battery Plates)
- ②. Handle
- ③. Tally Indicator
- ④. VESA mount position 1 (100x100mm)
- ⑤. VESA mount position 2 (100x100mm)
- ⑥. Interfaces (See 1.4 Rear Interfaces Instruction)

1.3 Panel Buttons Instruction



- ①. Power ON/ OFF

②. Multifunctional Knobs

Knobs	Function when OSD is not displayed	Function when OSD is displayed
MENU/  	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 confirm the current menu settings.
ESC 	Rotate knob to adjust the Backlight of screen	Press it to exit the OSD menu.
FOCUS 	Rotate knob to adjust image Contrast. Press it to enter "Focus Assist" function.	/
FREEZE 	Rotate knob to adjust Volume. Press it to enter "Image Freeze" Function.	/

③. User-Definable Function Buttons

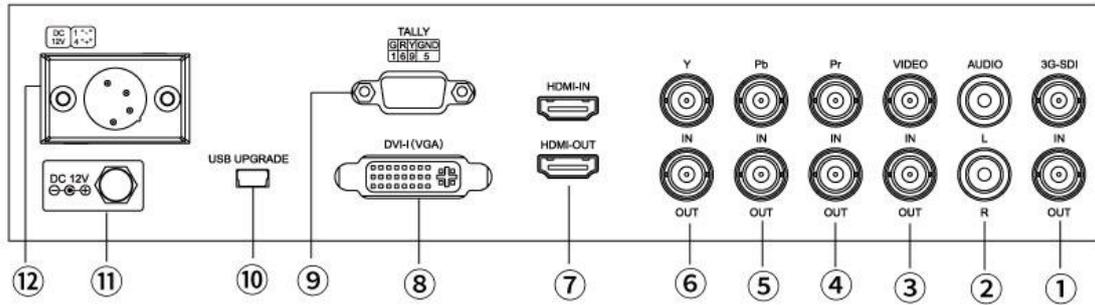
Users can directly use four user-defined function buttons to operate or enter into F menu bar to set according to their own operating habits.

④. Input Selection Button

Use the VGA (DVI to VGA signal), DVI, VIDEO, YPbPr, HDMI and SDI buttons to select the corresponding analog or digital input. (Without SDI model, SDI button has no effect)

⑤. Stereo Headphone Jack

1.4 Rear Interfaces Instruction



- ①. **3G-SDI IN/ OUT:** SDI signal input & output (Optional)
- ②. **AUDIO L/R:** Audio L/R channel input
- ③. **VIDEO IN/ OUT:** Composite Video signal input & output
- ④. **Pr IN/ OUT:** Component video Pr input & output signal in YPbPr
- ⑤. **Pb IN/ OUT:** Component video Pb input & output signal in YPbPr
- ⑥. **Y IN/ OUT:** Component video Y input & output signal in YPbPr
- ⑦. **HDMI IN/ OUT:** HDMI signal input & output
- ⑧. **DVI-I signals input** (VGA input from this port after conversion module signal conversion)
- 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.

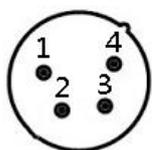
Please select DC power plug supply and the polarity is as image below:



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

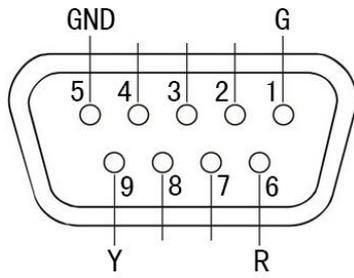
We assemble the suitable battery plate for the customers according to the different requirements of the batteries. If the customers have no requirement on the battery, the factory assembles Sony V-Mount Plate by default.

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



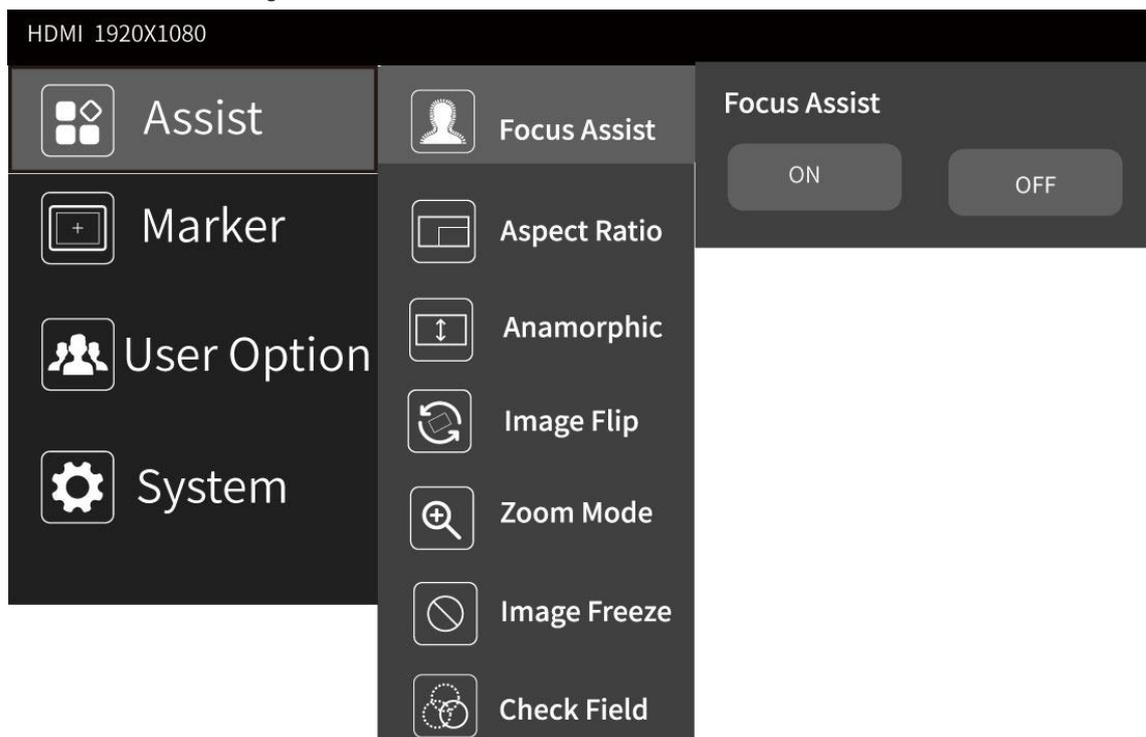
(2) Desktop (U Bracket)



(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  button to enter OSD main menu, then rotate it to select the secondary menu;

2.2 Press  button after selected and enter the secondary menu;

Rotate  button to select the item in the secondary menu.

2.3 After select the item in the secondary menu, rotate the  button to select the function or adjust the item parameters. Press  button after selected.

2.4 Press “ESC” knob to exit the menu.

3. Menu Function Instruction



Assist

 Focus Assist	On, Off It highlights the areas that are in focus so you are able to quickly focus the camera and not miss crucial shots.
 Aspect Ratio	Auto, 16:9, 16:10, 4:3, 5:4, 1.85:1, 2.35:1, Full Screen Provides a wide variety of aspect ratio to match different camera anamorphic lenses.
 Anamorphic	On, Off Mode: 1.33X, 1.6X, 2.0X, 2.0X MAG, User Under the User , 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.
 Image Flip	On, Off Mode: H Flip, V Flip, H_V Flip
 	On, Off

<p>Zoom Mode</p>	<p>Mode: 2X、4X、9X、16X、User</p> <p>Under the User, can be customized (100%~200%)</p> <p>It is HD signal in any part, an amplification for high quality close-up.</p>
<p> Image Freeze</p>	<p>On, Off</p>
<p> Check Field</p>	<p>On, Off</p> <p>Mode : Red, Green, Blue, Mono</p> <p>When enabled, hue and saturation adjusted quickly and accurately</p>



Marker

<p> Nine Grid</p>	<p>On, Off</p> <p>Color: Red, Green, Blue, Black, White, Gray</p> <p>The area of the picture can be divided into 9 equal grids.</p>
<p> Safe Frames</p>	<p>On, Off</p> <p>Mode: 80%, 85%, 90%, 93%, 96%, 2.35:1</p> <p>Color: Red, Green, Blue, Black, White, Gray</p>
<p> Center Marker</p>	<p>On, Off</p> <p>Color : Red, Green, Blue, Black, White, Gray</p>



User Option

 <p>Display Adjustment</p>	<p>Backlight: 0~100 Adjust the screen brightness</p> <p>Brightness: 0~100 Adjust the image brightness</p> <p>Contrast: 0~100 Adjustment of the ratio between the brightest and darkest parts of the image . When adjusting, pay attention to the sense of hierarchy in the image. If the proportion is too large or too small, it can cause the image to lose its colorful appearance.</p> <p>Saturation: 0~100 Adjustment of color concentration</p> <p>Tint: 0~100</p>
 <p>Color Adjustment</p>	<p>Color Temp.: 5600K, 6500K, 9300K, User Under the User, the red, green and blue of the image can be adjusted (0~255), made the colors of the image achieve your favorite.</p>
 <p>Shortcut Key</p>	<p>Center Marker, Safe Frames, Nine Grid, Image Freeze, Focus Check Field, Anamorphic, Zoom, Image Flip, Aspect Ratio</p> <p>To set the 4 shortcut custom button F1~F4 on the panel e.g.: enter the main menu, choose User Option --  shortcut key-- F1 to show pop-up function items, select one of them, such as Focus Assist. The cursor will be changed to gray color after selected.</p> <p>Directly press F1 button of monitor panel to open Focus Assist</p> <p>Same setting for F2~F4</p>



System

 Language	English、简体中文、Español、Português、Français、Nederlands、Deutsch、日本語、繁體中文、한국어로、 русский язык
 OSD Option	OSD Time: Off, 15Sec, 30Sec, 45Sec Select the display time of the menu on the screen OSD Trans: Off, 25%, 50%, 75% Adjust the transparency of the menu picture background on the screen No Signal: Red, Green, Blue, Black, White, Gray Can be change the background color of screen when no signal
 Volume	Mute: On, Off 0~100 Adjusting the speaker volume
 Reset	Select Reset and press MENU button Confirm , the system back to original setting.
 Firmware Update	Firmware Version (display the version number) Firmware Update Confirm

4. Support Signal Formats

Video Signals	Support signal formats
Video	PAL/NTSC auto recognize
HDMI	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 3840×2160p (60/50/30/29.97/25/24/23.98) 4K 4096×2160p (60/50/30/29.97/25/24/23.98)
SDI	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"
Resolution	1920×1080	1024×768	1920×1080	1920×1080	1920×1080
Dot Pitch (mm)	0.1533× 0.1533	0.297×0.297	0.1989× 0.1989	0.24825× 0.24825	0.2745× 0.2745
Aspect Ratio	16:9	4:3	16:9	16:9	16:9
Brightness	400cd/m ²	350cd/m ²	300cd/m ²	250cd/m ²	250cd/m ²
Contrast	1000:1	800:1	700:1	3000:1	1000:1
Viewing Angle	85°/85°(L/R) 85°/85°(U/D)	80°/80°(L/R) 80°/80°(U/D)	89°/89°(L/R) 89°/89°(U/D)	80°/80°(L/R) 60°/80°(U/D)	89°/89°(L/R) 89°/89°(U/D)
Backlight	LED				
Inputs	3G-SDI (Optional), HDMI, YPbPr, Video, Audio(L/R), DVI-I				

Outputs	3G-SDI (Optional), HDMI, YPbPr, Video, Stereo Headphone, Speaker				
Input Voltage	DC 9~24V				
Power Consumption	≤ 12W	≤ 15W	≤ 26W	≤ 15W	≤ 24W
VESA Size	75x75mm	100x100mm	100x100mm	100x100mm	150x150mm
Special Function	TALLY Indicators				
Working	-10°C ~ 50°C				
Storage	-20°C ~ 60°C				
Unit Size	315.5×231 ×26.4 mm	331.1×282.6×3 3.8 mm	426×297 ×35.1 mm	511.6×355.5×4 1.87 mm	567×372×46.7m m
Unit Weight	≈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
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◆ 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.

