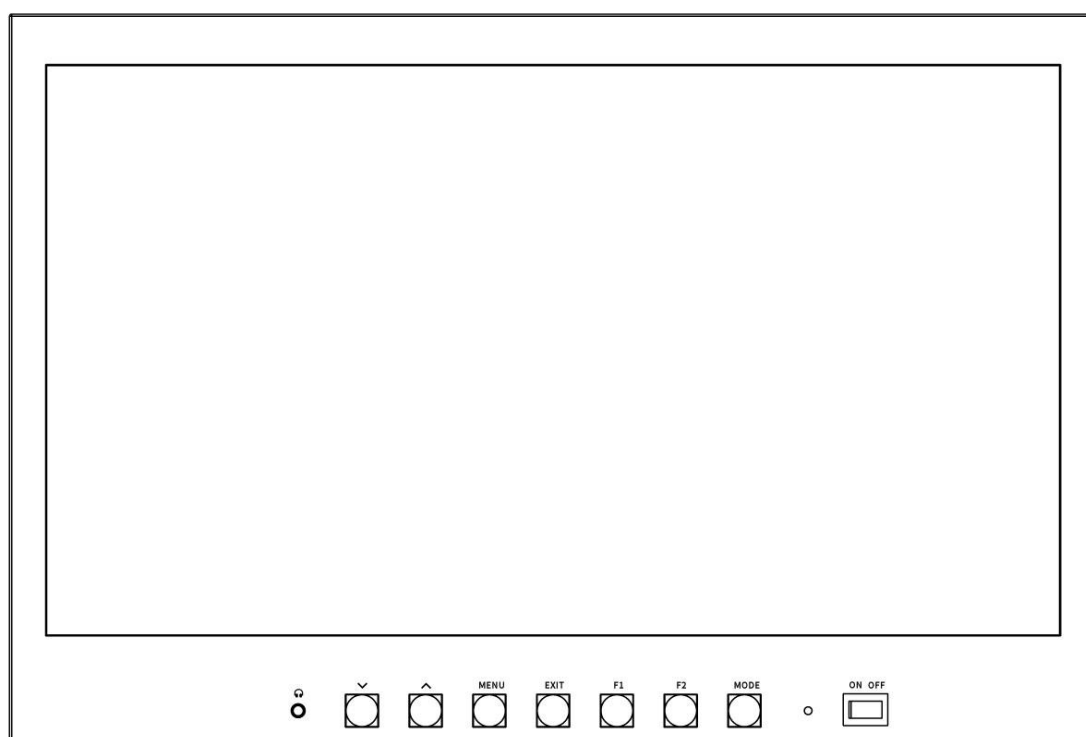


21.5" High Bright Director Monitor



User Manual

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Foreword

Thank you for purchasing our high bright director monitor. Please read this manual carefully before using the unit. Have a great experience!

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 o l'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.

Key Features

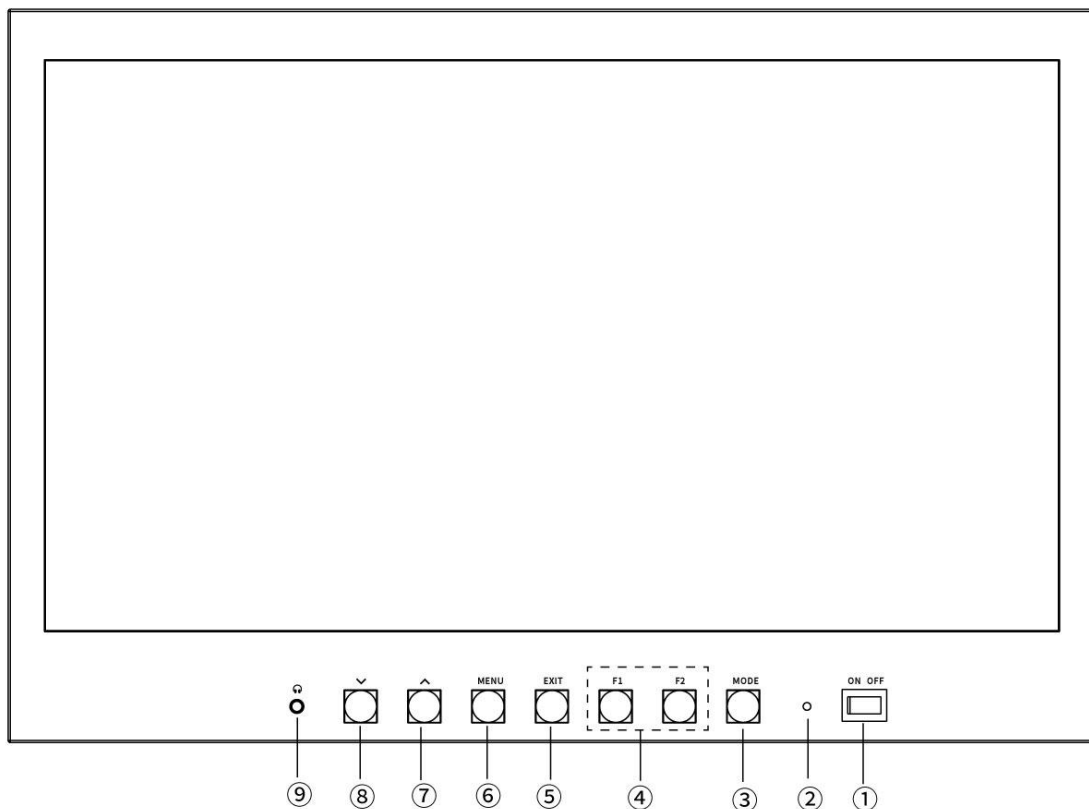
- ◆ FHD Resolution 1920x1080 IPS, view details with confidence
- ◆ 1000nit high brightness, ideal for outdoor shooting
- ◆ Intuitive buttons operation
- ◆ Professional Calman software calibration, ensure color accuracy and good reproduction
- ◆ Support 3D LUT Log to REC.709 and user 3D LUT upload (up to 32)
- ◆ With Waveform, Vector scope, RGB Histogram, Focus Assist, Monochrome

etc. functions, can help you accurately exposure and focus every shot.

- ◆ Equipped with 2xHDMI,1xSDI inputs, which compatible with various DSLR cameras and camcorders. 2xHDMI, 1xSDI outputs easy to connect with external monitor.
- ◆ Multiple power supply ways(DC IN, XLR connector, V-mount battery plate)

Product Description

1. Front Panel Instruction



- ①. **ON/OFF:** Power Switch
- ②. **Indicator** (it shows red light after the monitor power on, and turns green after input the signal)
- ③. **Input Signal Source switch buttons** (after switch, the signal

source will show the top left of screen)

④. **F1~F2:** User custom shortcut button

Enter menu **User Option--Shortcut--F1/F2** to set the functions

⑤. **EXIT:** Return/Exit button

⑥. **MENU:** main menu/confirm

⑦. **^** : When OSD displayed, select the previous item menu/parameters;

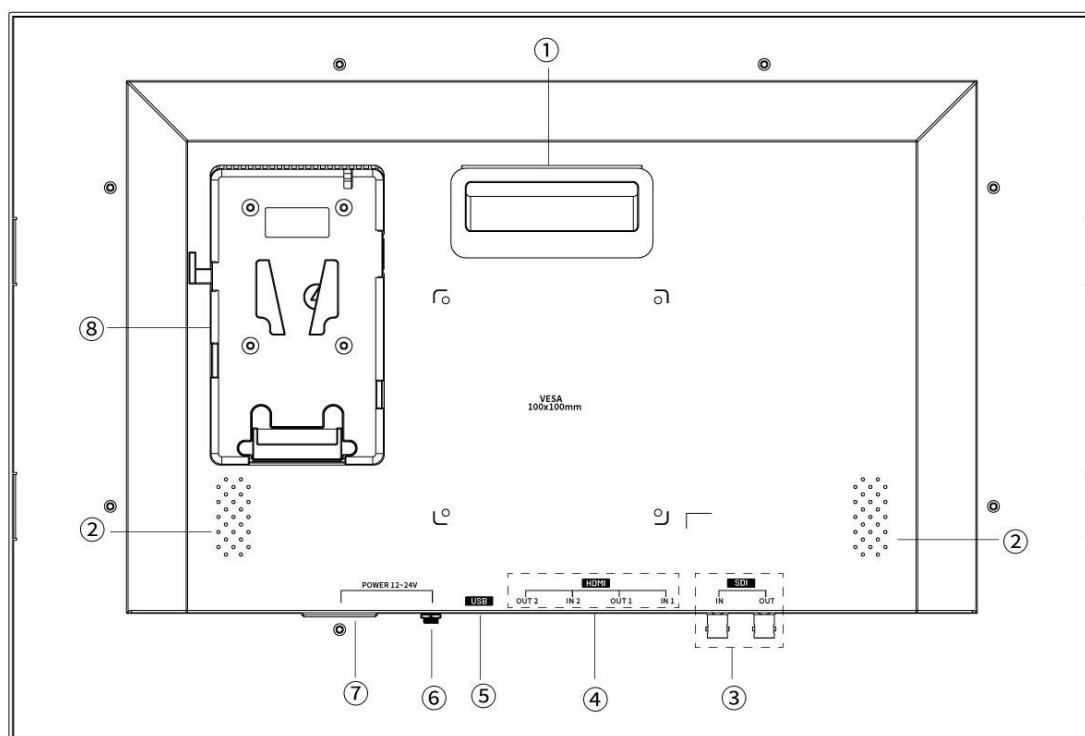
When OSD not displayed, press to increase the volume/backlight

⑧. **v** : When OSD displayed, select the next item menu/parameters;

When OSD not displayed, press to decrease the volume/backlight

⑨. **🎧** : Earphone jack output port

2. Rear Panel Instruction



①. **Handle**

②. **Speakers**

③. **SDI OUT** (3G-SDI signal output)

SDI IN (3G-SDI signal input)

④. **HDMI IN 1** (HDMI signal input1)

HDMI OUT 1 (HDMI signal output1)

HDMI IN 2 (HDMI signal input 2)

HDMI OUT 2 (HDMI signal output 2)

⑤. **USB:** Firmware update/LUT file import

⑥. DC power directly jack

⑦. XLR power connector

⑧. V-mount Battery Plate (can mount V-mount battery)

Power Input Way

There are three ways of power supply to our monitor:

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

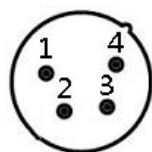
Please select DC power plug 5.5*2.1mm supply and the polarity is as



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 of V-mount battery plate to supply the power.



Sony V-Mount Plate

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.

Connection Method and Cautions for Monitor and Camera

Preparing before connecting

- Ensure that both the camera/camcorder and monitor are turned off
- Check if the HDMI/SDI interface and cables are clean and intact
- Prepare anti-static wristbands or discharge by touching metal object first
- Ensure that the workbench is clean and stable

Connection of HDMI cable

1. Using the accompanied HDMI/Micro HDMI cable to connect the HDMI IN of the monitor and the HDMI Out of the camera(please purchase extra

HDMI cable if the HDMI cable is not long enough)

2. Fix the wire to avoid hanging or pulling it
3. Turn on the camera first, and then turn on the monitor. The image of camera viewfinder will displayed on the screen of the monitor.

Please set it to Auto or 16:9 if the camera is designed with an HDMI output setting function.

4. When shutting down, first turn off the monitor, wait for it to completely shut down, and then turn off the camera.

Connection of SDI cable

1. Using the accompanied SDI cable to connect the SDI IN of the monitor and the SDI Out of the camcorder.
2. Fix the wire to avoid hanging or pulling it
3. Turn on the camcorder first, and then turn on the monitor. The image of camcorder will be displayed on the screen of the monitor.
4. When shutting down, first turn off the monitor, wait for it to completely shut down, and then turn off the camera.

Using cautions

- When moving the device, be careful not to trip over the wires, which may cause hot plugging or unplugging
- Regularly check whether the HDMI/SDI interface and HDMI/SDI cables are worn or blocked by foreign objects
- It is recommended to disconnect when not in use to protect the cables

and interfaces

Physical protection measures

- Use HDMI cable fixing clips or brackets
- The wire should have an appropriate margin to avoid being too tight
- Consider using an L-shaped HDMI connector to reduce the pressure on the HDMI interface
- You can use an HDMI adapter to protect the HDMI interface on the camera and avoid damage to the HDMI interface caused by frequent plugging and unplugging

Regular maintenance

- Check if there is dust accumulation on the interface
- Is the equipment voltage stable
- Confirm that the wire is not damaged or bent
- Is the fixing device still securely fastened
- Are all screws securely fastened

These measures can significantly reduce the risk of equipment damage and extend its service life.

Menu Operation Instructions

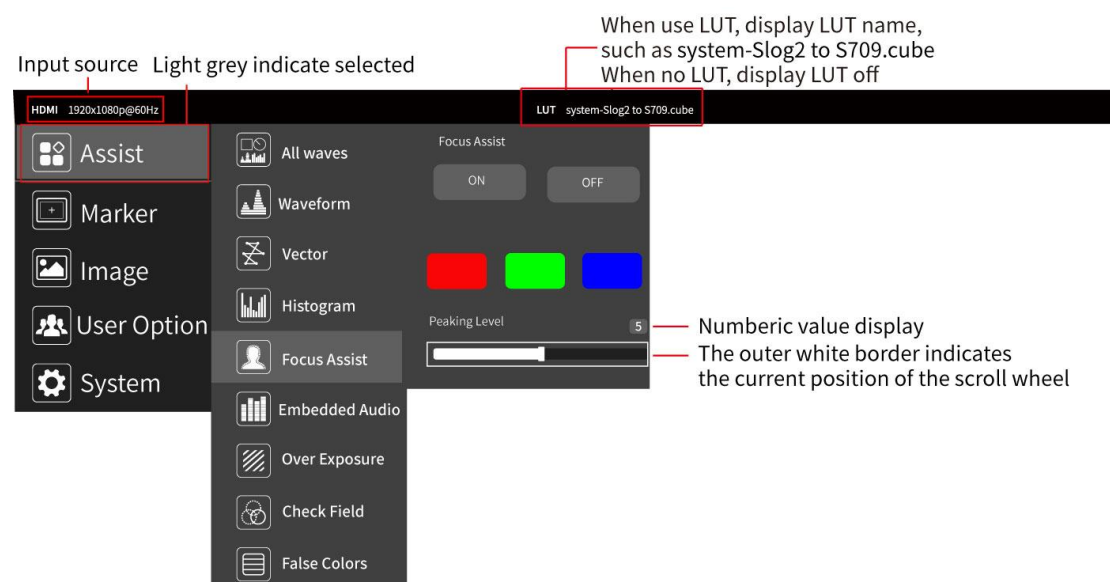
After the monitor is properly connected to power and signals, turn on the

monitor power switch.

Steps:

- ①. Press MENU key to bring up the main menu. Then press $\wedge$ / $\vee$ key to select the main menu option.
- ②. Press MENU key to enter the sub-menu after selected, then press $\wedge$ / $\vee$ key to select the sub-menu option. After selection, press MENU key to enter the parameter value adjustment, and press $\wedge$ / $\vee$ key to select the function or adjust the parameter value, press MENU key to confirm after selection.
- ③. Press EXIT to return or exit menu

Menu Interface and Function Instructions





Assist

 All Waves	On, Off After turning on, waveform, vector, histogram and embedded audio will be shown.
 Waveform	On, Off Mode : RGB、YUV、Y This essential feature assists with the calibration of professional video cameras. It shows the overall brightness of the image assisting the video professional in correcting exposure. The waveform feature also checks the evenness of the lighting when lighting a chromakey or background. Waves Trans. : Off, 25%, 50%, 75%
 Vector	On, Off shows how saturated the image is and where the pixels in the image land on the color spectrum.
 Histogram	On, Off Mode: RGB1、RGB2、Y RGB Histogram: It can display the graphic of color tone distribution, can intuitively display the exposure status of the image, and display overlapping histograms in red, green, and blue channels Y Histogram: A quantitative tool to check the picture brightness, display different color for different brightness.
 Focus Assist	On, Off Color : (Red, Green, Blue) Peaking Level : you can adjust the peaking level after turning on (1 ~ 10) It highlights the areas that are in focus so you are able to quickly focus

	the camera and not miss crucial shots.
 Embedded Audio	On, Off The Audio Level Meters provide numerical indicators and headroom levels.
 Over Exposure	On, Off Exposure Level : you can adjust the exposure level after turning on (10~100) Areas of the image over a certain threshold are filled with a striped pattern to dramatically highlight areas where too much light is falling on the image sensor.
 Check Field	On, Off Mode : Red, Green, Blue, Gray When enabled, hue and saturation adjusted quickly and accurately
 False Colors	On, Off An image that depicts an object in colors that differ from those a photograph (a true color image) would show.
 Time Code	On, Off Mode: LTC, VITC



Marker

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

 Center Marker	On, Off Color : Red, Green, Blue, Black, White, Gray
 Ratio Marker	On, Off Mode: 4:3、 13:9、 14:9、 15:9、 16:9、 1.85:1、 2.35:1 Color: Red, Green, Blue, Black, White, Gray Modified Mark : 0~5



Image

 Scan Mode	Under Scan, Over Scan
 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

Zoom Mode	Mode: 2X、4X、9X、16X、User Under the User , can be customized (100%~200%) It is HD signal in any part, an amplification for high quality close-up
 Image Freeze	On, Off
 P2P	On, Off Enable the filmmaker to check the image from the 1:1 signal source without scaling. This feature is essential for capturing optimum detail.



User Option

 LUT	On, Off After the LUT Switch is turned on, you can use the Lut (SLOG2, SLOG3, LOGC, VLOG) . The Lut item is displayed after the Lut Switch is turned on. LUT is a table for quickly looking up and output specific color data. By loading different 3D-LUT tables, it can quickly recombine color tone to form different color styles Lut Import: Confirm Show the 4 built-in Lut and the custom load Lut (up to 32)
 Display Adjustment	Backlight: 0~100 Adjust the screen brightness Brightness: 0~100 Adjust the image brightness 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. Saturation: 0~100 Adjustment of color concentration Tint: 0~100
 Color Adjustment	Color Temp.: 5600K, 6500K, 9300K, User Under the User, the red, green and blue of the image can be adjusted (0~255)
 Shortcut Key	All Waves, Waveform, Vector, Histogram, Embedded Audio, Center Marker, Safe Frames, Nine Grid, Focus Assist, False Colors, Over Exposure, Anamorphic, Image Freeze, Check Field, Zoom Mode, Image Flip, Aspect Ratio To set the 2 shortcut custom button F1, F2 on the panel e.g.: After entering the main menu, select User Option--Shortcut Key--F1, then choose one of the functions and press MENU key to confirm, the cursor will be changed to gray color after confirmed. Then exit the menu and press F1 to quickly call up “ All Waves” Same setting for F2
 Left Right Key Set	Volume, Backlight



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	On, Off 0~100 Adjusting the speaker volume
 Reset	Scroll the wheel to select Reset and press Confirm , the system back to original setting.
 Firmware Update	Firmware Version (show the version number) FTY CAL: ON/OFF Each monitor has color calibration before ex-factory, the factory calibration button turn on by default. After turning off, the monitor will without has color calibration, suggest don't turn it off.

How to Import Custom LUT

1. USB flash driver format
Supports FAT32
2. Max Files Limit Maximum 32 Lut files

3. File requirements

- The LUT file format suffix should be **.cube**
- Single file not exceeded to 7.9Mb
- Support LUT-3D-Size **16,17,32,33,64,65**

Remark: LUT file name must be English or Arabic numerals

4. Steps for loading

4.1 Make sure the USB flash driver correctly insert

4.2 Enter main menu **User Option--LUT-- LUT Import -- Confirm** to load

the monitor will auto detect the USB flash driver

If there is valid lut file in USB flash driver, the monitor will load LUT files and show “[n] name. The [n] shows the quantity number. The “name” should in LUT files’ name. If load successful, the screen will show “complete[n]”. [n] Stands for the quantity number for LUT files should under 32.

PS: How to clear up the imported LUTs?

Insert a empty USB flash driver to the monitor, enter main menu **User Option--LUT-- LUT Import -- Confirm**, the imported LUTs will be clear up.

Firmware Update

Please connect after-sale to get the upgrade file

1. Use a FAT32 format USB drive , copy the upgrade file to the USB drive
2. Turning on the monitor, and plug the USB drive to the USB interface of the monitor
3. Enter the menu, select **System--Firmware Update--Confirm**, press MENU key to confirm to upgrade.

4. After loading, the monitor will shut down automatically, please reboot manually
5. Check whether the latest version

Support Signal Formats

Signals	Signal Support Formats
HDMI	720p (60/59.94/50/30/29.97/25/24) 1080i (60/59.94/50) 1080p (60/59.94/50/30/29.97/25/24/23.98) 3840x2160p (60/50/30/29.97/25/24/23.98) 4096x2160p (24/23.98Hz)
SDI	720p (60/59.94/50/30/29/25/24/23.98) 1080i (60/59.94/50) 1080p (60/59.94/50/30/29.97/25/24/23.98)

Parameters

Panel Size	21.5"
Resolution	1920×1080 pixels
Color Display	16.7M colors （8bit）
Color Gamut	72% NTSC
Aspect Ratio	16:9
Pixel Pitch (mm)	0.24795 (H) x 0.24795 (V)
Brightness	1000cd/m ²
Contrast	1000:1
Viewing Angle	178°(H) 178°(V)
Audio	3.5mm Headphone Jack, Speaker
Backlight	LED
Input	HDMI, SDI

Output	HDMI, SDI
Working Temperature	0°C~50°C
Storage Temperature	-20°C~60°C
Input Voltage	12~24V
Power Consumption	≤52W
Unit Size (mm)	511.6x345x21.8 (mm)
Unit Weight	4.275kg

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 could not 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 correct or not
◆ Monitor is not 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
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◆ Video signal interfered by external environment	Move to another environment to try again
◆ 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 aspect ratio

Speaker without sound

Trouble shooting

◆ Audio cable off or connection properly	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	In VGA and DVI state, it needs to input audio signal synchronize.

■ Remark:

- ★ If there are still other problems, please contact with our related technical persons.
- ★ As we are improving our products features, so if there are changes without prior notice.