10.1” Multi-View Production Monitor

User Manual

V1.0

Foreword

Thank you for purchasing our 10.1-inch multi-view production monitor. Please read this manual carefully before using the unit. Have a great experience!

Cautions

1. Please avoid the heavy impact and drop onto the ground when move the product.
2. The screen of this product is made of glass.Keep away from injury if the screen is broken.
3. Keep the product away from the heat source, and avoid the prolonged exposures to the sun as the LCD screen will be damaged.
4. 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.
5. No adjustable components are in the monitor. Please do not take apart or repair the unit by yourself, to avoid the damage of the product.

Key Features

- 10.1”FHD 1920x1200 IPS, view details with confidence
- Touch and physical button operation, meet different needs
- CNC aluminium alloy housing
- 1200nit high brightness, daylight viewable
- Multiple screen modes (Single, PBP, PIP, Crop, Triple, Quad)
- Load custom 3D-LUT, preview film look
- HDR monitoring, what you see is what you get
- Waveform, Vector, Histogram and audio meter can moveable horizontally and vertically

- **3-color** Tally indicator, enhance the team cooperation
- Built-in cooling fan, there are 5 levels to adjust
- 3.5mm earphone output for real-time monitoring
- Multiple power supply ways (DC directly plug connector, LEMO 2pin connector, dual NP-F battery slots)

Packaging List

Monitor*1

A-A HDMI Cable *1

Micro HDMI Cable*1

SDI Cable*1

U-shape Bracket*1

Tally Connector*1

Quick Start Guide*1

Optional:

Monitor Cage (with sun-hood)

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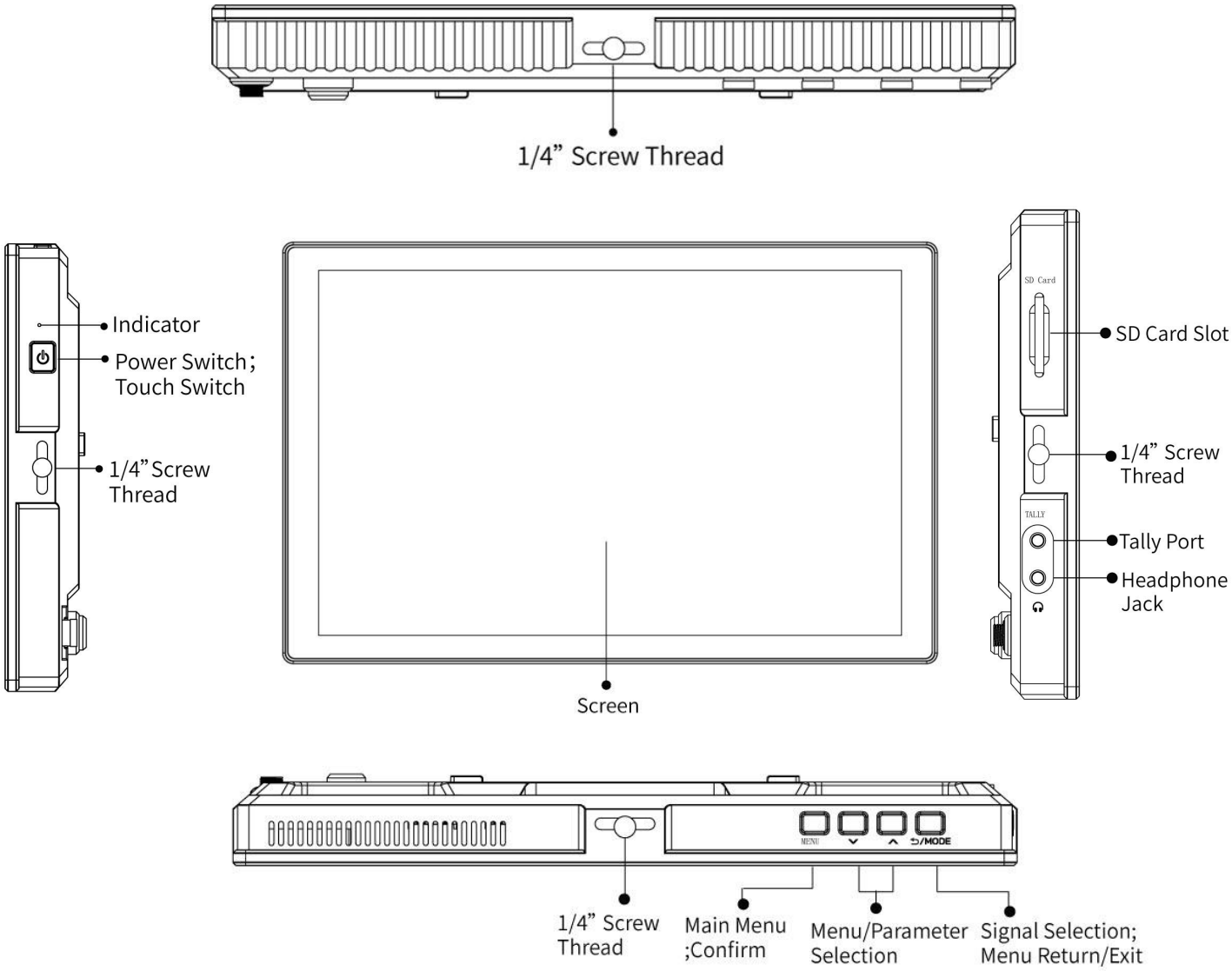
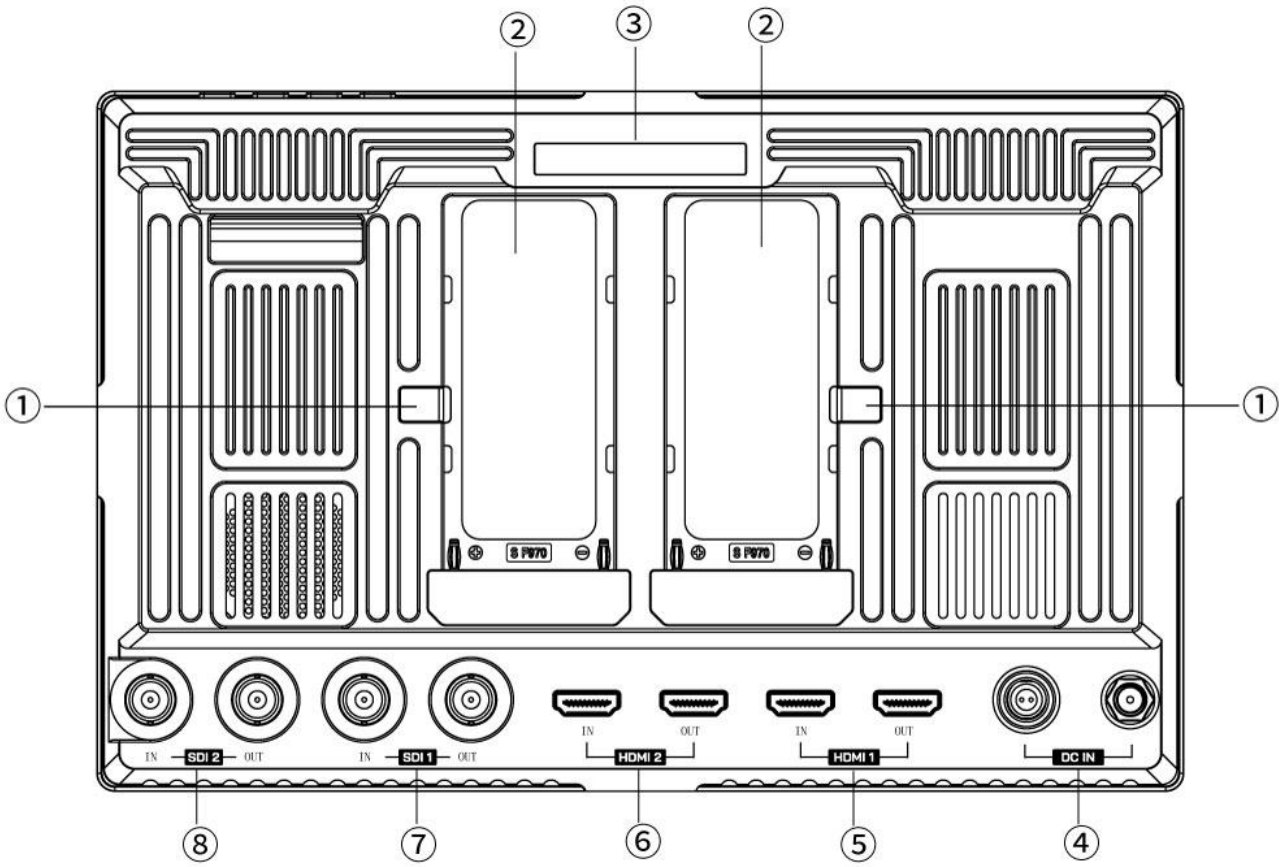
1. Product Description

1.1 Structure Instruction





①: Battery Release Key

②： NP-F Battery Slot

③： Tally Indicator

④： ---DC directly plug power input， suit for 5.5*2.1mm power plug

---2-pin LEMO power port

⑤： HDMI 1 IN &OUT--- HDMI 1 signal input and output

⑥： HDMI 2 IN &OUT--- HDMI 2signal input and output

⑦： SDI 1 IN &OUT--- SDI 1 signal input and output

⑧： SDI 2 IN &OUT--- SDI 2 signal input and output

1.2 Power Supply Ways

There are three power supply ways to the monitor:

A. Barrel (5.5mm outer, 2.1mm inner) at the rear of the monitor, DC 7~24V Input. It is recommend to use 12V/3A power adapter

B. 2-pin LEMO power connector at the rear of the monitor, suitable for use 2-pin LEMO power adapter.Supports DC 7-24V voltage.

C. The rear cover of the monitor is equipped with dual NP-F battery slots, it can be installed the NP-F series battery

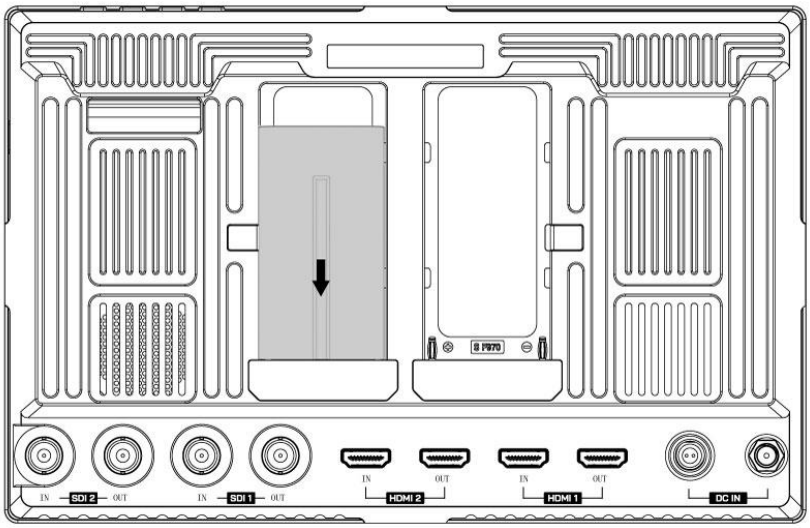
The battery models including F970 F960 F950 F930 F770 F750 F730 F570 F550 F530 and other specifications.

Remark: It is recommended to use standard original F970 batteries. Different specifications of the battery have different capability. The working time for the monitor will be different. Higher capability (working time) will be longer. Please take off the battery from the monitor if you don't use the monitor in a long time.

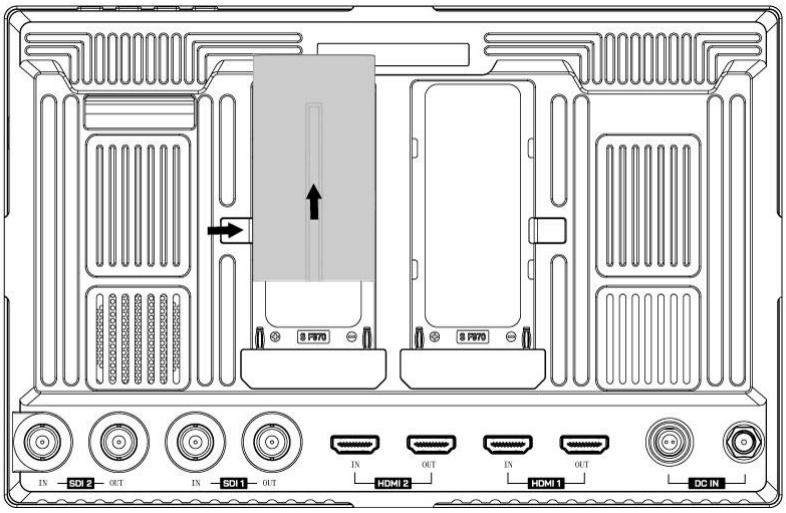
- **Battery Switching Instruction:** When install two batteries at the same time, both battery level will be showed on the right upper corner of the monitor. Users can click on another battery to switch when one battery is running low, the white indicating working battery and the gray indicating non-working battery.

- **Installation and remove of battery**

①. Gently press the battery inward in the indicated direction, then slide it downward (without **release**). A click sound will be heard when the battery is locked in place.

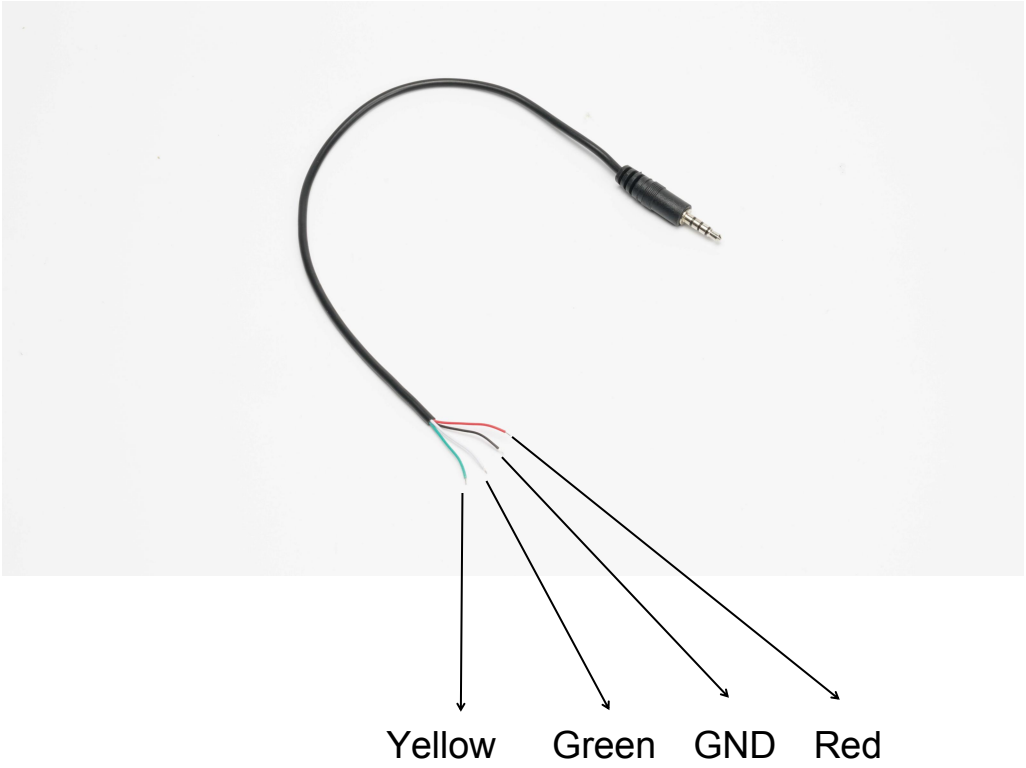


②. To remove the battery,press and hold the battery release button while slide the battery to the upper, then remove it.



1.5 TALLY Connector

The monitor with the stand accessory Tally connector to control tally indicator.



2. 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

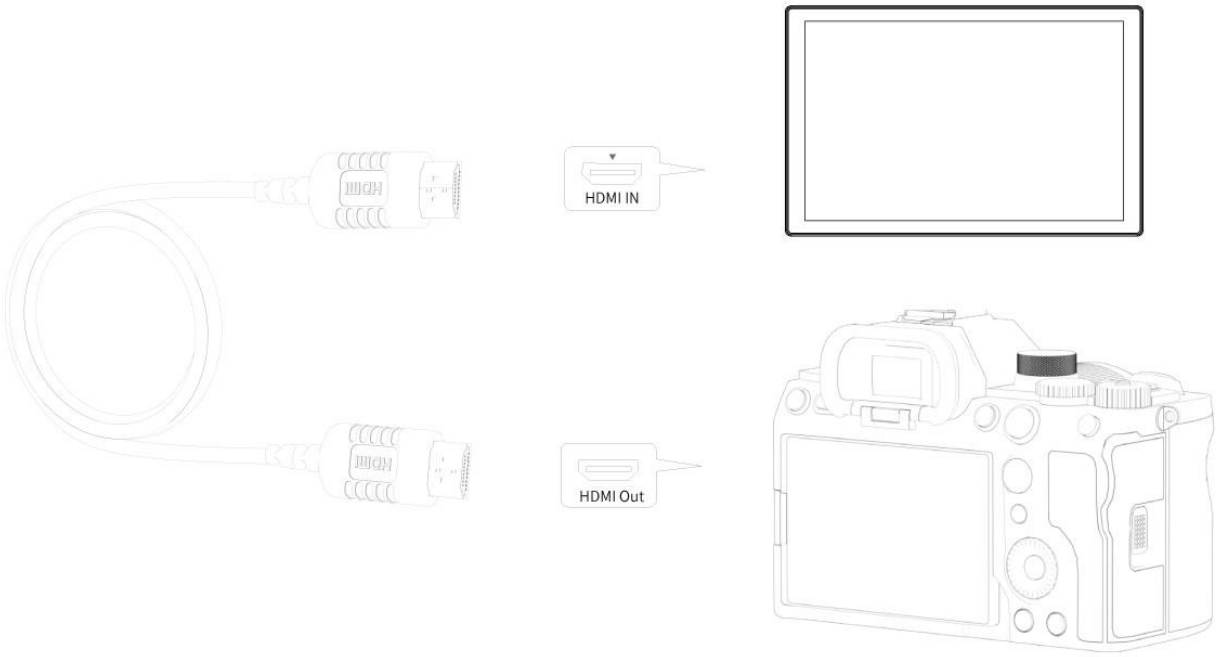
①. Using the accompanied HDMI/Micro HDMI cable to connect the HDMI IN of the monitor and the HDMI Out of the camera(please purchase extra HDMI cable if the HDMI cable is not long enough)

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.



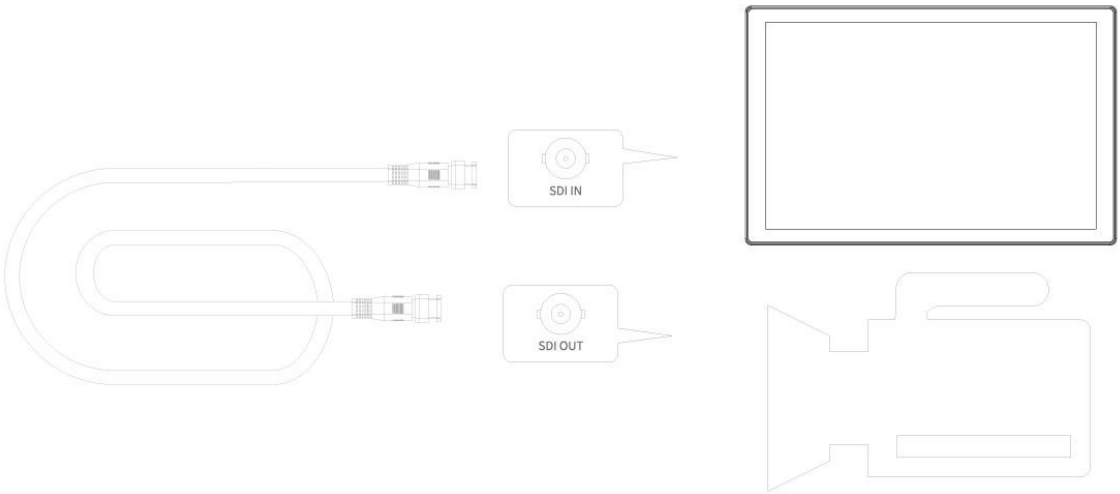
Connection of SDI cable (available separately)

①. Using the 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

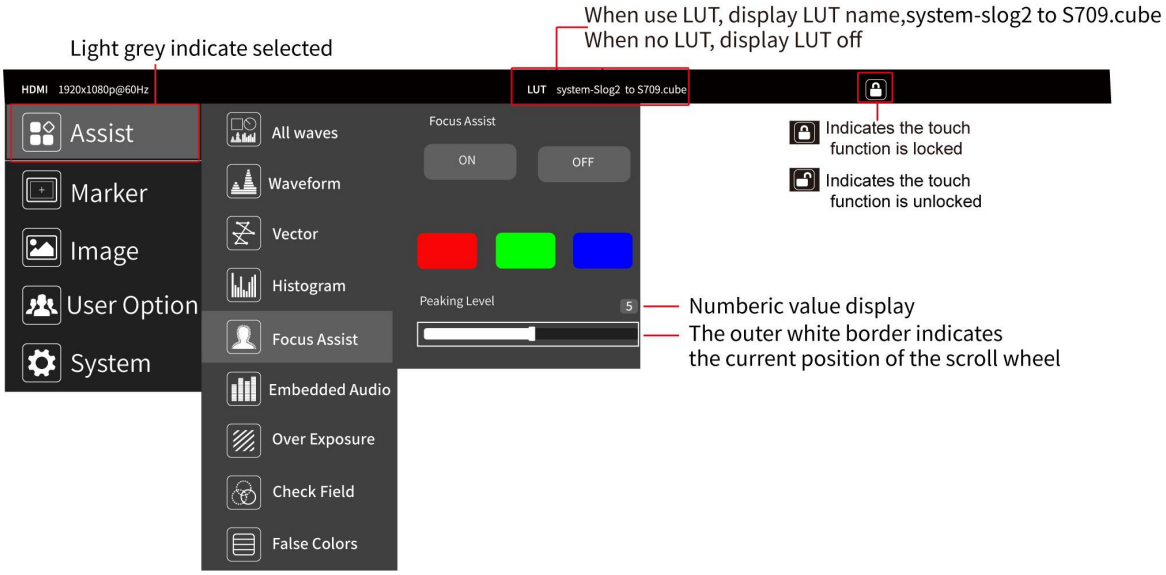
-Confirm that the wire is not damaged or bent

-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.

3. Menu Operation Instruction



After the monitor is properly connected to the power supply,the indicator display(red). The monitor default to turn on automatically. After the signal is connected, the indicator turns green.

You can also set the power to Manually in menu **System--Power setting**. After setting, you need to long press ⏻ to turn on the monitor when plug the power supply.

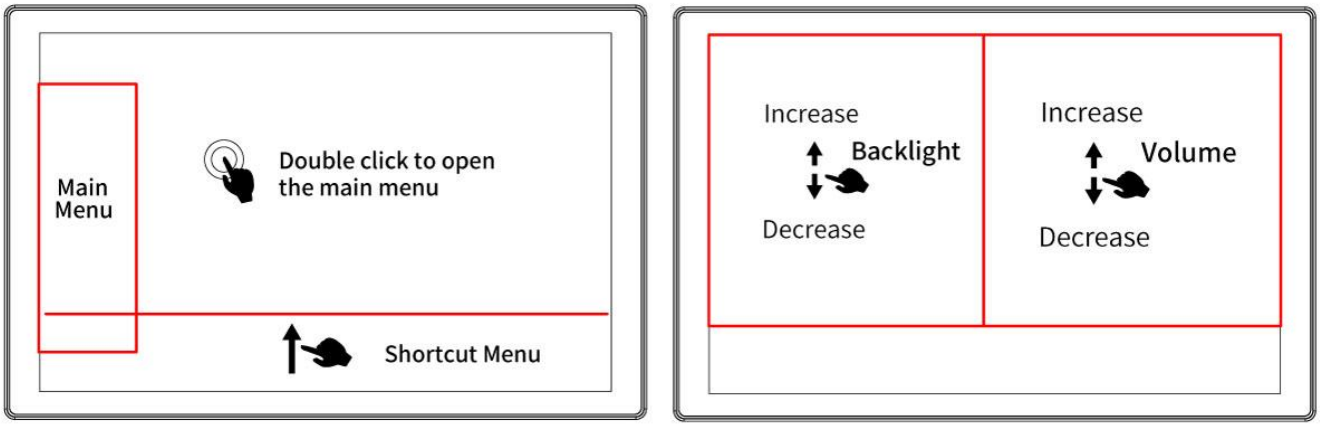
3.1 Touch Screen Menu Operation (turn on the screen touch function)

①. Double-click on the screen to open the main menu (show on the left side of the screen) and click on the corresponding menu to display the secondary menu. You can enter the corresponding function option and click directly to select or set. Click the touch screen to exit the menu.

②. When the menu is not displayed, swipe up from the bottom of the screen to open the shortcut menu, swipe left or right select the needed function and click on the corresponding menu box to turn on or turn off the corresponding function. (remark: the shortcut menu can't set the detail function or parameters, you can set on main menu)

③. When the menu is not displayed, on the left side of the screen (1/2 split screen), you can directly adjust the brightness of the screen backlight; on the right side of the screen (1/2 split screen), you can directly adjust the volume.

Figure:



3.2 Physical Button Menu Operation

①. When the menu is not displayed, directly press the ⌄ or ⌃ key to adjust volume.

②. Press the MENU key to open the main menu (on the left side of the screen), press the ⌄ or ⌃ key to select menu. After selected, press the MENU key to enter the secondary menu, then press the ⌄ or ⌃ key to select. After selected, press the MENU key to enter function menu, press ⌄ or ⌃ key to select or set option function, press the MENU key to confirm after selected or set, then the icon will show gray.

③. Press ⮌/MODE key to return or return the menu

4. Menu Function Instruction

Assist

 **All Waves**	**ON, OFF** After turning on, waveform, vector, histogram and embedded audio will be shown.
 **Waveform**	**ON, OFF** **Mode: RGB, YUV, Y** **Waves Trans.:Off, 25%,50%,75%** **Position X: 0~100** (moving the waveform horizontally) **Position Y: 0~100** (moving the waveform vertically) 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.

 **Vector**	**ON, OFF** **Position X: 0~100** (moving the Vector horizontally) **Position Y: 0~100** (moving the Vector vertically) 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** **Position X: 0~100** (moving the histogram horizontally) **Position Y: 0~100** (moving the histogram vertically) **Y Histogram** A quantitative tool to check the picture brightness, display different color for different brightness **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
 **Focus Assist**	**ON, OFF** **Color: Red, Green, Blue, White** **Peaking Level: 1~10** After turned on, the **Focus Level (1～10)** and **Focus Color** can be adjusted. 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** Display an audio diagram after enabled to help you understand the audio status being used. **Under HDMI Signal, max display 8 channels** **Mode:** pr1, gp1, gp2, gp12 **Audio Out:** ch1-2, ch3-4, ch5-6, ch7-8 pr1 display1-2 channel, gp1 display 1-4 channel, gp2 display 5-8 channel, gp12 display 1-8 channel **Under SDI Signal, max display 16 channels**

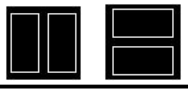
	Mode: pr1, gp1, gp2, gp12, gp3, gp4, gp14 **Audio Out:** ch1-2, ch3-4, ch5-6, ch7-8, ch9-10, ch11-12, ch13-14,ch15-16 pr1 display1-2 channel, gp1 display 1-4 channel, gp2 display 5-8 channel, gp12 display 1-8 channel, gp3 display 9-13 channel, gp4 display 14-16 channel, gp14 display 1-16 channel Display an audio diagram after enabled to help you understand the audio status being used. **Position X: 0~100** (moving the audio level horizontally) **Position Y: 0~100** (moving the audio level vertically)
 **Over Exposure**	**ON, OFF** After the exposure is turned on, the **Exposure Level (10RE～100IRE),,** can be adjusted.
 **Check Field**	**On, Off** **Mode: red, green, blue, gray** When enabled, hue and saturation adjusted quickly and accurately.
 **False Color**	**ON, OFF** **Mode: Normal, ARRI** An image that depicts an object in colors that differ from those a photograph (a true color image) would show.

Marker

 **Grids**	**ON, OFF** **Mode: 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8, 9x9, Custom** **Rows: 2~9** **Columns: 2~9** When selecting **Custom**, you can custom the rows and columns

	of the grid **Color: Red, Green, Blue, Black, White, Gray** The area of the picture can be divided into 4 ,9, 16, 25, 36, 49,64,81 equal grids or custom the grid.
 **Safe Frames**	**OFF, ON** **Mode: 80%, 85%, 90%, 93%, 96%, 2.35:1, 9:16** **Marker Line Color: Red, Green, Blue, Black, White, Gray**
 **Center Marker**	**ON, OFF** **Marker Line 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, 9:16** **Marker Line Color: Red, Green, Blue, Black, White, Gray** **Modified Mark: 0~5**

Image

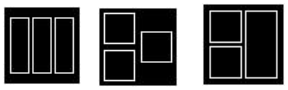
 **Multi Screen**	Mode: Single Window: WIN1 INPUT: HDMI 1, HDMI 2, SDI 1, SDI 2 for optional Mirror Flip: OFF, H, V, H&V Mode: PBP Window: WIN1, WIN2 INPUT: HDMI 1, HDMI 2, SDI 1, SDI 2 for optional Mirror Flip: OFF, H, V, H&V Rotation: OFF, 90°(There is no 90° rotation option when the PBP up &down landscape location is selected.) Position: 

Mode: Triple

Window: WIN1, WIN2, WIN3

INPUT: HDMI 1, HDMI 2, SDI 1, SDI 2 for optional

Mirror Flip: OFF, H, V, H&V

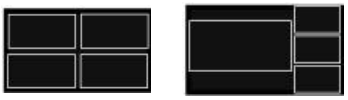
Position: 

Mode: Quad

Window: WIN1, WIN2, WIN3, WIN4

INPUT: HDMI 1, HDMI 2, SDI 1, SDI 2 for optional

Mirror Flip: OFF, H, V, H&V

Position: 

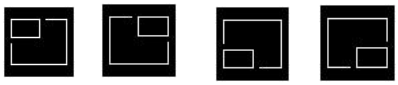
Mode: PIP

Window: WIN1, WIN2

INPUT: HDMI 1, HDMI 2, SDI 1, SDI 2 for optional

Mirror Flip: OFF, H, V, H&V

PIP Size: S, M, L

Position: 

Mode: Crop

Window: WIN1

INPUT: HDMI 1, HDMI 2, HDMI 3, HDMI 4, SDI 1, SDI 2 for optional

	Mirror Flip: OFF, H, V, H&V **Position:** Slide to adjust the cropping position in portrait mode.
 **Aspect Ratio**	**Auto, 16:9, 16:10, 4:3, 5:4, 1.85:1, 2.35:1, Full Screen**
 **Anamorphic**	**ON, OFF** **Mode: 1.33x, 1.6x, 2.0x, 2.0x mag, User** **Under User, you can custom adjust nx (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**
 **Zoom Mode**	**ON, OFF** **Mode: 2X, 4X, 9X, 16X, User** **Under User, you can adjust 100%~200%** It is HD signal in any part, an amplification for high quality close-up.
 **Image Freeze**	**ON, OFF**
 **P2P** **(Pixel to Pixel)**	**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

	ON, OFF

 **LUT**	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** **LUT Table: display built-in SLOG2, SLOG3, LOGC, VLOG and the custom LUTs**
 **HDR**	**HDR: ON, OFF** **Mode: HLG1, HLG2, HLG3** HDR can provide more dynamic range and the details of image, it is better to reflect the visual effects in the real environment.
 **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** It is the most accurate standard for distinguishing various different colors. Determine what a certain color is actually color via the color appearance.
 **Color Adjustment**	**Color Gamut: DCI-P3, REC709** **Display Range: Auto, Limit, Full** This feature allows for the selection of a grayscale range. The Limited grayscale range is 16-235, and the Full grayscale range is 0-255. (Grayscale represents changes in image brightness, using

	varying gray levels to depict brightness in different image areas. In grayscale, brightness increases from black to white, typically denoted by a numerical range from 0 to 255, where 0 signifies black and 255 indicates white, and intermediate numbers indicate varying grayscale levels.) 1. If the dark part of the picture lost, the details cannot be seen clearly. For example, the input signal is in the range of 0-255, but the monitor is set Auto or Limit, the brightness of 0-15 and 236-255 is removed, resulting the dark part details unclear. You can set to Full. 2. If the picture is gray, the black part turned gray. For example, the input signal is in the range of 16-235, but the monitor is set Full , resulting the black part turn gray. At this time,you can set to Auto or Limit. **Color Temp.: 5600K, 6500K, 9300K, User** Under the "**user**", the **red**, **green**, and **blue** values of the image can be adjusted (0~255)

System

 **User Switch**	**User Switch: 1~4** you can save the set menu as 1-4 and can be called directly next time
 **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, 15s, 30s, 45s** 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
 **EDID Settings**	**EDID Settings: 2.0, 1.4** Compatible with resolution of different camera/device Default to 2.0 (if set 1.4 manually, then input 4K60 signal, you need to set to 2.0 again)
 **Volume**	**Mute: ON, OFF** Volume: 0~100 Adjusting the speaker volume **Audio Source: WIN1, WIN2, WIN3, WIN4**
 **Power Settings**	**Power on: Auto, Manual** Default to Auto. If set Manual, please press  key to turn on after the power plug in.
 **Cooling Fan**	**ON, OFF** **Mode:1~5** **Note: the fan default to ON and with 3 mode**
 **Reset**	After confirmed, the system back to original setting.
 **Firmware Update**	**Firmware Version** (display the current firmware version) **FTY CAL: On, Reset** **Reset:** If you import your own LUT calibration but encounter abnormalities or poor result, you can clear the calibration LUT by clicking "Reset" in FTY CAL and return to the factory calibration. **Confirm** 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 upgrade? 1. SD card format Support FAT32 or NTFS. For MAC system, the SD card should be formatted in MS-DOS (FAT) 2. After copying the update file to the SD card and inserting it into the SD card slot, click **Confirm** to update. 3. The monitor will turn off automatically after finishing, please turn on manually 4. Check the firmware version whether the latest one **Note:** the chip should be faced up when inserting the SD card, and press it after inserting to ensure that the SD card is fully inserted.

5. How to Load LUT

5.1 SD card format

Support FAT32 or NTFS. For MAC system, the SD card should be formatted in MS-DOS (FAT)

5.2 Max Files Limit Maximum 32 Lut files

5.3 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

5.4 Steps for loading

5.4.1 Make sure the SD card correctly insert

5.4.2 Enter main menu **“User Option”**--**LUT--Lut Import -- Confirm** to load

the monitor will auto detect the SD card

A. There is no SD Card, the screen will show failed,can try once more,if not work, restart the monitor and try again

B. There is SD Card, the monitor will erase the exits user's lut fill and show "Initializing" , If there is no valid lut file in SD card, the lut will not load.The monitor will show "clean up"

C. If there is valid lut file in SD card, 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.

6. Custom LUT Calibration Instruction

If you have professional equipment and instrument and want to calibrate the monitor by self. Please take note the following points:

6.1 SD card format

Support FAT32 or NTFS. For MAC system, the SD card should be formatted in MS-DOS(FAT)

6.2 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
For P3 color calibration, file name should be @User_P3xxxx.cube, the red font can't be changed, the xxxx can be custom. For example, @User_P3_123456789.cube

For 709 color calibration, file name should be @User_709xxxx.cube,the red font can't be changed,the xxxx can be custom. For example, @User_709_abcdefg.cube.

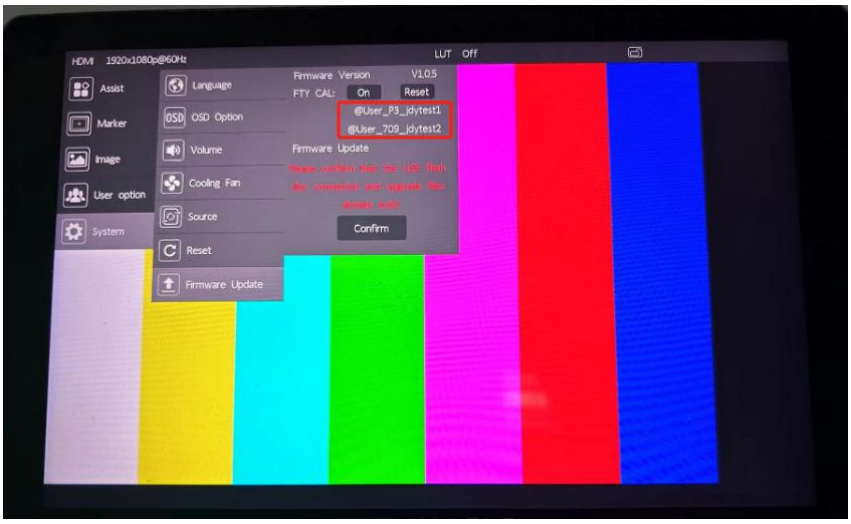
6.3 Steps for loading

6.3.1 Make sure the SD card correctly insert

6.3.2 Enter main menu **"User Option"**--**LUT--Lut Import -- Confirm** to load

the monitor will auto detect the SD card

5.3.3 After loading, the file will show like below



6.4 If you import your own LUT calibration but encounter abnormalities or poor result, you can clear the calibration LUT by clicking "Reset" in FTY CAL and return to the factory calibration.

7. Technical Parameters

Panel Size	10.1" IPS (touch)
Resolution	1920x1200 pixels
Dot Pitch	0.1128(H) x 0.1128(W) mm
Color Display	1.07B
Color Depth	10bit (8bit+2FRC)
Color Gamut	DCI-P3 95%
Aspect Ratio	16:10
Brightness	1200cd/m^2
Contrast	1500:1
Viewing Angle	80°/80°(L/R) 80°/80°(U/D)
Backlight	LED
Response Time	25ms

Input	2*3G-SDI, 2*HDMI ,1*Tally
output	2*3G-SDI, 2*HDMI
Audio	3.5mm Stereo Headphone
Other Interface	SD Card Slot (Firmware update/LUT file import)
SDI Support Format	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)
HDMI Support Format	480i/576i/480p/576p 720p(60/59.94/50/30/29/25/24/23.98） 1080i(60/59.94/50） 1080p(60/59.94/50/30/29.97/25/24/23.98) 3840×2160p (60/50/30/29.97/25/24/23.98) 4096×2160p (60/50/30/29.97/25/24/23.98)
Power Supply Way	DC directly plug connector (suit for 5.5x2.1mm power plug) 2-pin LEMO connector Dual NP-F battery slot
Input Voltage	DC7~24V
Power Consumption	≦24W
Unit Size	244x157x25.9(mm)
Unit Weight	849g
Mount Points	1/4"-20 Thread Point (top, bottom, left, right)
Working Temperature	- 10℃～60℃
Storage Temperature	- 30℃～70℃

8. Trouble Shooting

8.1 Only black and white or monochrome picture:

① please check saturation, brightness & contrast adjustment.

② Please check "Monochrome" is in black, white or monochrome image or other condition.

8.2 NO Image after put on the power

① Check if signal cable connecting is in good condition.

② Check signal cable connecting, and make sure to use the standard adapter to connect the monitor. If power is supplied by battery, please check if the battery is fully charged.

8.3 Earphone No sound

① Check if Volume control do not open, press the volume button, and try to increase the volume.

■ If there are still other problems, please contact with our related technologists.

★ As we are improving product features and product performance, so if there is any change on the specification without prior notice.