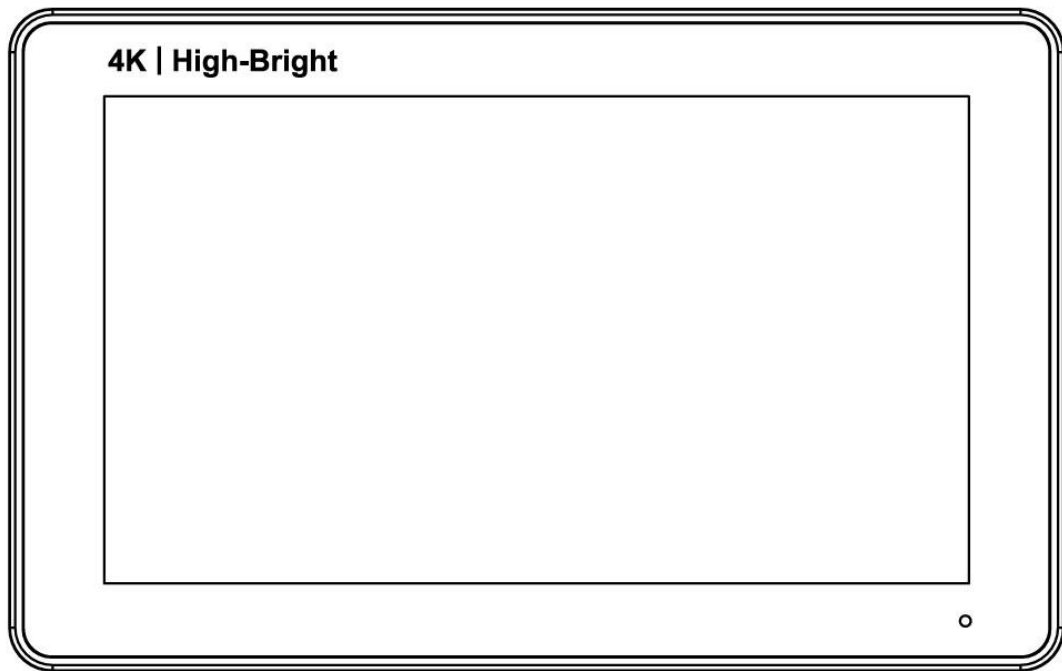


# **5.5" High Bright Touchscreen Monitor**

## **4K HDMI/3D LUT/Waveform**



## **User Manual**

## Foreword

Thank you for purchasing our 5.5-inch high bright touch screen monitor. Please read this manual carefully before using the unit. Have a great experience!

## CAUTION

- Please avoid the heavy impact and drop onto the ground when move the product.
- The screen of this product is made of glass. Please do not drop the screen towards the ground. Keep away from injury if the screen is broken.
- Keep the product away from the heat source, and avoid the prolonged exposures to the sun as the LCD screen will be damaged.
- To avoid damaging the product, please do not take apart or repair the unit by yourself without the adjustable components in the unit.
- In order to better maintain the LCD screen and protect the cover, please follow the following ways to avoid damages.
  1. Please refrain from using the hard objects to hit the screen.
  2. Please do not force to wipe the screen.
  3. Please do not use the chemical solutions to clean the screen.
  4. Please do not spray any detergent on the screen.
  5. Please do not write on the screen directly.
  6. Please do not stick on the screen.
  7. Please simply wipe with a clean soft cloth and make sure no water on the screen.

## Key Features

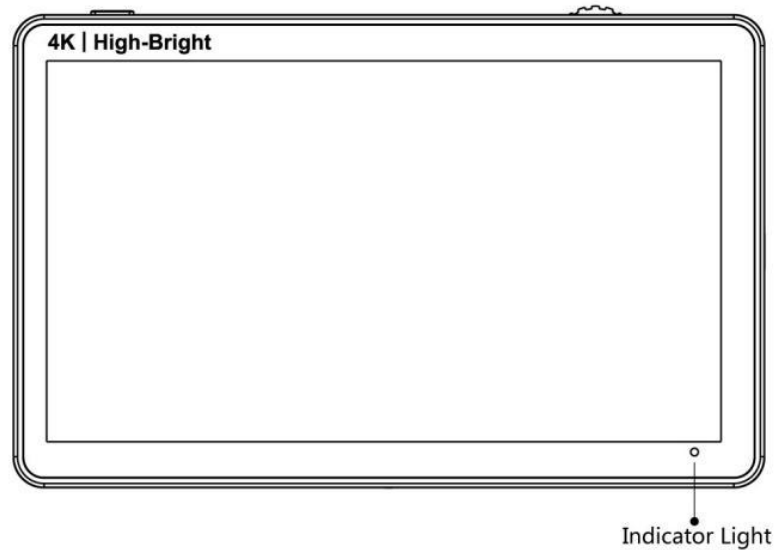
- 5.5-inch 1920x1080 full HD IPS screen
- Touch screen menu operation, easy to use
- High Brightness 1600nits, visible in sunlight
- Supports 3D LUT Log to REC.709 and user 3D LUT upload
- With Waveform, Vector scope, RGB Histogram, Focus Assist, Monochrome etc. functions, can help you accurately exposure and focus every shot.
- Supports screenshots, image overlay function
- Multiple power supply modes, DC IN 12V, Type-C 5V and NP-F & LP-E6 dual-purpose battery slot.
- Stereo Earphone output
- DC 8V power out to power your DSLR camera or mirrorless camera.

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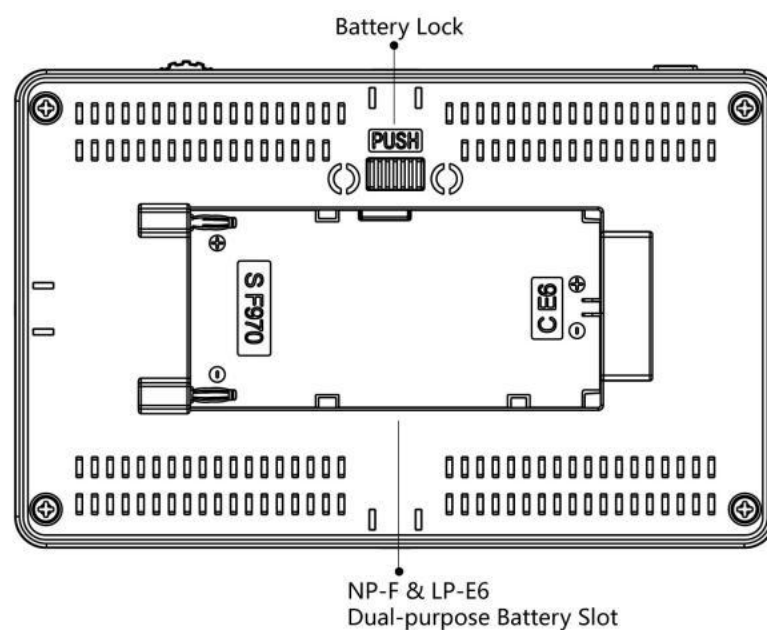
# 1. Product Description

## 1.1 Front Panel Instruction



**Indicator Light:** After connecting the power, the indicator light is on (red). Long Press EXIT/⏻ button to turn on the monitor, it turns yellow. After the signal is connected, it turns green.

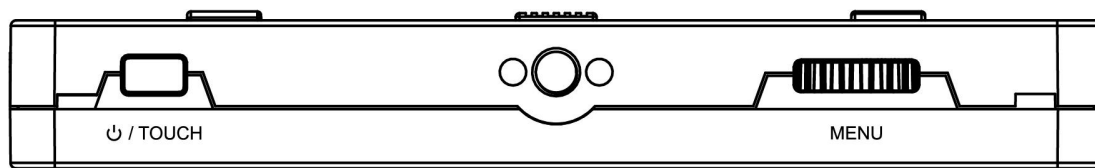
## 1.2 Rear Panel Instruction



**Battery Lock:** The PUSH lock will lock after the battery installed, please press PUSH firstly before remove the battery.

**NP-F&LP-E6 Dual-purpose Battery Slot:** It is applicable to F970 series of batteries and E6 series of batteries.

### 1.3 Top Button Instruction



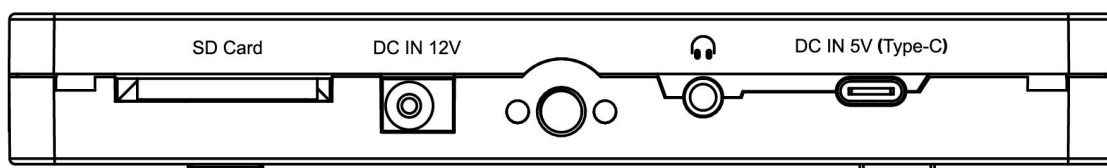
**ON / TOUCH** : Long press to turn on and off the power; short press to turn on and off the screen touch function

**MENU:** Rotate to adjust the volume or backlight when menu without display;


Press to open the main menu, rotate the wheel to select menu item, press it again to open the corresponding menu function.

(See details: **2. Menu Operation Instruction**)

### 1.4 Bottom Port Instruction



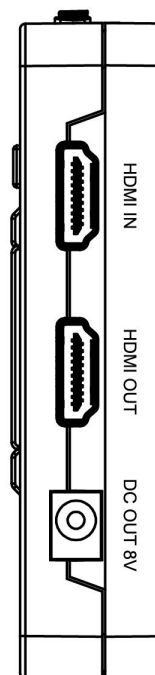
**SD Card:** SD card slot, 3DLUT upload via SD card and for firmware upgrade

**DC IN 12V:** DC power input, polarity as the input power 

: 3.5mm earphone port output


**DC IN 5V (Type-C):** (Note: This port can be connected to the power bank and is not used for data transmission; it is only used for local power supply and cannot provide loop-out power.

## 1.5 Left Port Instruction



**HDMI IN:** V1.4, HDMI signal input, up to 4K@30Hz.

**HDMI OUT:** V1.4, HDMI signal output, up to 4K@30Hz.

**DC OUT 8V:** DC power output interface, polarity as the output power 

Barrel output for powering your camera with a separately available DC coupler via adaptor (NP-FW50 Sony & LP-E6 Canon&DMW-BLF19 Panasonic). More adapters coming soon.

## 1.6 Power Supply Way

(1) The rear cover of the monitor is equipped with F970 and E6 dual-purpose battery plate, which is applicable to F970 series of batteries and E6 series of batteries.

- **Sony F970 battery plate for battery of Sony DV:**

Sony F970 F960 F950 F930 F770 F750 F730 F570 F550 F530 series.

- **LP-E6 battery plate for battery of Canon DV:**

Canon LP-E6

(2) Barrel (5.5mm outer, 2.1mm inner) at the bottom of the monitor, DC 7~24V Input.

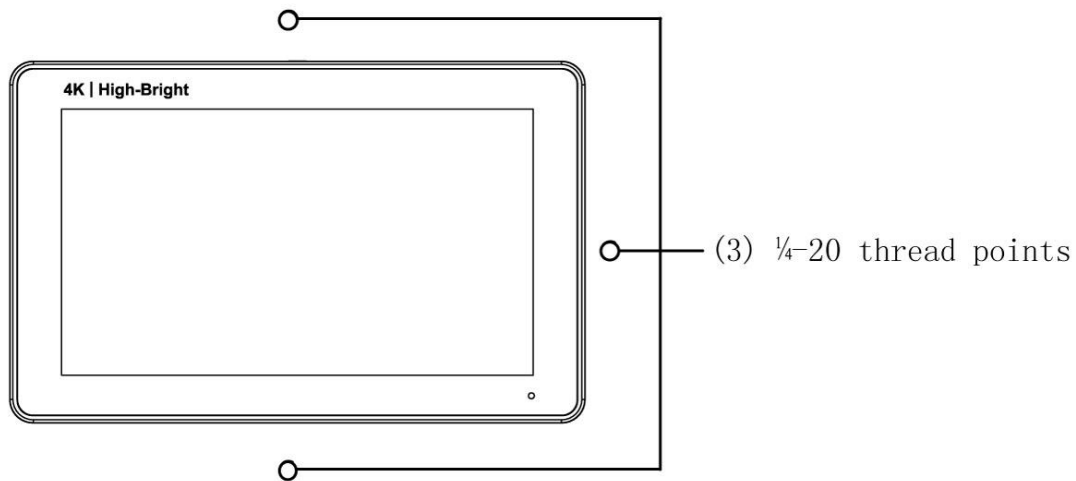
(3) The bottom of the monitor has a Type-C 5V input power port, which can be connected to a power bank.

**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.**

## 1.7 Mount Points

There are (3) 1/4-20 thread points (top, bottom, & right side) can be easily connected to the hot shoe mount, tripod fixed installation.

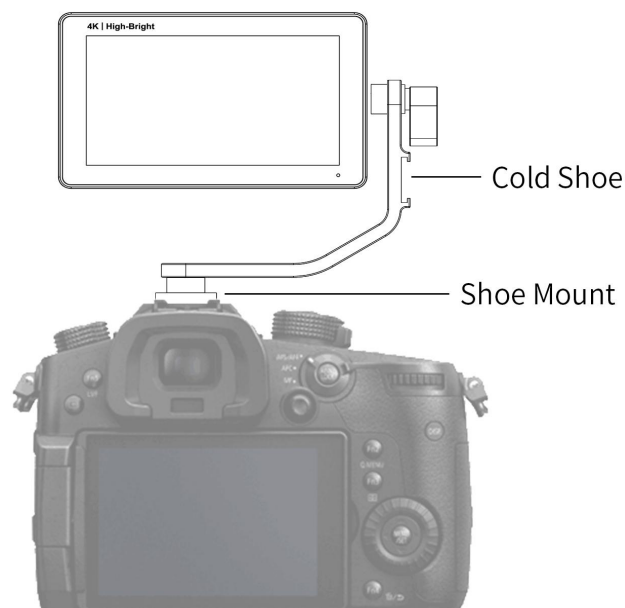




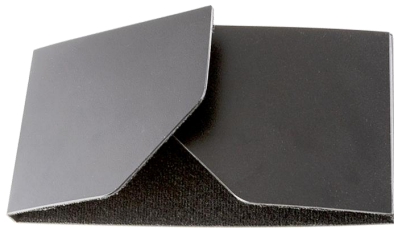
## Tilt Arm Mounting

The monitor secures to your camera using the included Tilt Arm via shoe mount or 1/4"-20 thread.

- Allows the monitor to rotate 360 degrees for viewing convenience
- Secure and lightweight mounting via shoe mount or 1/4"-20 thread
- Includes a shoe mount of its own for accessories like a microphone, LED light, or wireless receiver, etc.
- There are two small dots on the tilt arm, which are aligned with the monitor for installation, the connection is more stable, just grab the monitor to rotate without loosening the screws.



## 1.8 Sunshade



① Sunshade



② Sunshade Frame



③ Fixed Frame




④ Sunshade Application

First lock the Sunshade Frame ② with the monitor tight ③.

Open the sunshade ①, and match the sticker on the sunshade inside to the marked part of the sunshade frame ②, smooth and press 3 sides on the sunshade, and then complete the sunshade installation ④.

## 2. Menu Operation Instruction

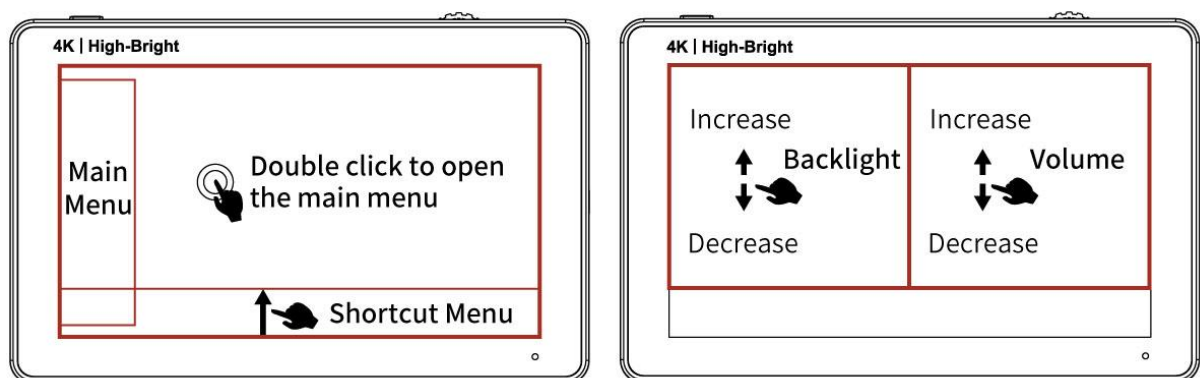
After the monitor is properly connected to the power supply, the indicator light is on (red). Press  / TOUCH button to turn on the monitor power. The indicator light turns yellow. After inputting the HDMI signal, the indicator light turns from yellow to green.

After startup, short press  / TOUCH to select to turn the screen touch function on or off.



## **(1). Directly touch the screen for menu operation (turn on the screen touch function)**

- ①. Double-click on the screen to open the main menu (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, and click the function icon to open the corresponding function, click the icon again to exit the function. Swipe the shortcut menu left and right to select more functions. Click the touch screen outside the shortcut menu to exit the shortcut menu display.
- ③. 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.

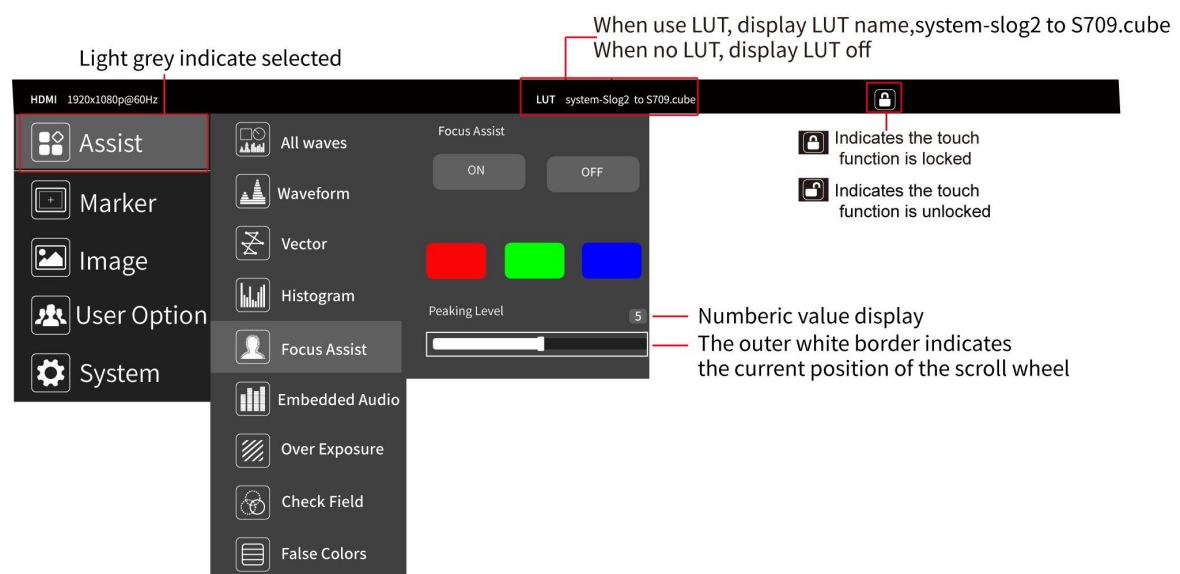
**Figure:**



## **(2) Menu Operation of MENU Wheel**

- ①. When the menu is not displayed, directly rotate the wheel to backlight or volume adjustment. You can set the left and right buttons in the **Left Right Key Set**  of menu **User Option** 
- ②. Press “**MENU**” scroll wheel button to enter OSD main menu, and scroll the wheel to go through the secondary menu function.
- ③. Press the "MENU" wheel key to enter the secondary menu, scroll the wheel to select the function and then press "MENU" to confirm.
- ④. Scroll the wheel to adjust the parameters value.
- ⑤. Long press MENU wheel button to exit the menu.






### 3. MENU Interface Instruction







## 4. Menu Function Instruction




### Assist




 <p><b>All Waves</b></p>	<p><b>On, Off</b></p> <p>After turning on, waveform, vector, histogram and embedded audio will be shown.</p>
 <p><b>Waveform</b></p>	<p><b>On, Off</b></p> <p><b>Mode : RGB、YUV、 Y</b></p> <p>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.</p> <p><b>Waves Trans. : Off, 25%, 50%, 75%</b></p>
 <p><b>Vector</b></p>	<p><b>On, Off</b></p> <p>shows how saturated the image is and where the pixels in the image land on the color spectrum.</p>
 <p><b>Histogram</b></p>	<p><b>On, Off</b></p> <p><b>Mode: RGB1、 RGB2、 Y</b></p> <p>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</p> <p>Y Histogram: A quantitative tool to check the picture brightness, display different color for different brightness.</p>
 <p><b>Focus Assist</b></p>	<p><b>On, Off</b></p> <p><b>Color : ( Red, Green, Blue )</b></p> <p><b>Peaking Level : you can adjust the peaking level after turning on ( 1 ~ 10 )</b></p>

	It highlights the areas that are in focus so you are able to quickly focus the camera and not miss crucial shots.
 <b>Embedded Audio</b>	<b>On, Off</b> The Audio Level Meters provide numerical indicators and headroom levels.
 <b>Over Exposure</b>	<b>On, Off</b> <b>Exposure Level : you can adjust the exposure level after turning on ( 10~100 )</b> 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.
 <b>Check Field</b>	<b>On, Off</b> <b>Mode : Red, Green, Blue, Mono</b> When enabled, hue and saturation adjusted quickly and accurately
 <b>False Colors</b>	<b>On, Off</b> <b>Mode: Normal, ARRI</b> An image that depicts an object in colors that differ from those a photograph (a true color image) would show.







## Marker




 <b>Grid</b>	<b>On, Off</b> <b>Mode: 2x2,3x3,4x4,5x5,6x6,7x7,8x8,9x9</b> <b>Color: Red, Green, Blue, Black, White, Gray</b> The area of the picture can be divided into 4, 9, 16, 25, 36, 49, 64, 81 equal grids.
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 <p><b>Safe Frames</b></p>	<p><b>On, Off</b></p> <p><b>Mode: 80%, 85%, 90%, 93%, 96%, 2.35:1</b></p> <p><b>Color: Red, Green, Blue, Black, White, Gray</b></p>
 <p><b>Center Marker</b></p>	<p><b>On, Off</b></p> <p><b>Color : Red, Green, Blue, Black, White, Gray</b></p>
 <p><b>Ratio Marker</b></p>	<p><b>On, Off</b></p> <p><b>Mode: 4:3、13:9、14:9、15:9、16:9、1.85:1、2.35:1</b></p> <p><b>Color: Red, Green, Blue, Black, White, Gray</b></p> <p><b>Modified Mark : 0~5</b></p>




## Image

 <p><b>Scan Mode</b></p>	<p><b>Under Scan, Over Scan</b></p>
 <p><b>Aspect Ratio</b></p>	<p><b>Auto, 16:9, 16:10, 4:3, 5:4, 1.85:1, 2.35:1, Full Screen</b></p> <p>Provides a wide variety of aspect ratio to match different camera anamorphic lenses.</p>
 <p><b>Anamorphic</b></p>	<p><b>On, Off</b></p> <p><b>Mode: 1.33X, 1.6X, 2.0X, 2.0X MAG, User</b></p> <p>Under the <b>User</b>, can be customized (1.20X~2.00X)</p> <p>Allows you to use anamorphic lenses or adapters and see the image unsqueezed, even if your camera does not de-squeeze in camera.</p>
	<p><b>On, Off</b></p> <p><b>Mode: H Flip, V Flip, H_V Flip</b></p>





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



## User Option





 <b>LUT</b>	<p><b>On, Off</b></p> <p>After the LUT Switch is turned on, you can use the <b>Lut</b> (<b>SLOG2, SLOG3, LOGC, VLOG</b>).</p> <p>The Lut item is displayed after the Lut Switch is turned on.</p> <p>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</p> <p><b>Lut Import: Confirm</b></p> <p>After copying the 3D LUT file to SD card, then insert to SD card slot of monitor, click “<b>Confirm</b>” to import the LUT file</p> <p><b>Note:</b> the chip should be faced up when inserting the SD card, and press it after inserting to ensure that the SD card is fully</p>
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	<p>inserted.</p> <p><b>Lut Table</b></p> <p>Show the 4 built-in Lut and the custom load Lut (up to 32)</p>
 <p><b>HDR</b></p>	<p><b>On, Off</b></p> <p><b>Mode: HLG1, HLG2, HLG3</b></p> <p>HDR can provide more dynamic range and the details of image, it is better to reflect the visual effects in the real environment.</p>
 <p><b>Display Adjustment</b></p>	<p><b>Backlight: 0~100</b></p> <p>Adjust the screen brightness</p> <p><b>Brightness: 0~100</b></p> <p>Adjust the image brightness</p> <p><b>Contrast: 0~100</b></p> <p>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><b>Saturation: 0~100</b></p> <p>Adjustment of color concentration</p> <p><b>Tint: 0~100</b></p>
 <p><b>Color Adjustment</b></p>	<p><b>Color Temp.: 5600K, 6500K, 9300K, User</b></p> <p>Under the <b>User</b>, the red, green and blue of the image can be adjusted (0~255), made the colors of the image achieve your favorite.</p>
 <p><b>Left Right Key Set</b></p>	<p><b>Volume, Backlight</b></p>



## System

 <b>Language</b>	English、简体中文、Español、Português、Français、Nederlands、Deutsch、日本語、繁體中文、한국어로、 <b>русский язык</b>
 <b>OSD Option</b>	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
 <b>Volume</b>	<b>On, Off</b> 0~100 Adjusting the speaker volume
 <b>Reset</b>	Select <b>Reset</b> and press MENU button <b>Confirm</b> , the system back to original setting.
 <b>Firmware Update</b>	After copying the upgrade file to SD card, then insert to SD card slot of monitor then click <b>Confirm</b> to upgrade. After the upgrade is complete, the monitor will automatically restart.

## 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 --LUT--Lut Import -- click **Confirm** to load

the monitor will auto detect the SD card

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.

## **PS: How to clear up the imported LUTs?**

Insert a empty SD card to the monitor, enter main menu --LUT--Lut Import -- click **Confirm**, the imported LUTs will be clear up.

## 6. Technical Parameters

<b>Panel Size</b>	5.5” touch screen
<b>Resolution</b>	1920 × 1080 pixels
<b>Dot Pitch</b>	0.069 (H) × 0.069 (V) mm
<b>Aspect Ratio</b>	16:9
<b>Brightness</b>	1600cd/m <sup>2</sup>
<b>Contrast</b>	1000:1
<b>Viewing Angle</b>	80°/80°(L/R) 80°/80°(U/D)
<b>Backlight</b>	LED

<b>Adjustable Backlight</b>	Yes
<b>Input</b>	HDMI V1.4
<b>Output</b>	HDMI V1.4, 3.5mm stereo headphone jack
<b>Power In</b>	DC IN 12V, Barrel (5.5mm outer, 2.1mm inner), DC IN 5V (Type-C) Note: please use 5V/2A or more than 2A Type-C power supply
<b>Power Out</b>	DC OUT 8V, Barrel (5.5mm outer, 2.1mm inner; Power DSLR or mirrorless camera)
<b>HDMI Input/ Output Support Format</b>	480i /480p /576i /576p 720p(60/59.94/50/30/29/25/24/23.98) 1080i(60/59.94/50) 1080p(60/59.94/50/30/29.97/25/24/24sF/23.98/23.98sF) 4K UHD 3840×2160p (30/29.97/25/24/23.98Hz) DCI 4K 4096×2160p (24Hz)
<b>Power Input Voltage</b>	7~24V
<b>Power Consumption</b>	≤ 10W
<b>Unit Size (mm)</b>	148Lx93Hx20D (mm)
<b>Unit Weight</b>	235g
<b>Mount Points</b>	(3) ¼-20 thread points (top, bottom, right sides)
<b>Working Temperature</b>	-20℃ ~ 50℃
<b>Storage Temperature</b>	-30℃ ~ 60℃

## 7. Trouble Shooting

### 7.1 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.

## **7.2 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.

## **7.3 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.