6″ Touchscreen Monitor

4K HDMI/3D LUT/HDR

User Manual

Foreword

Thank you for purchasing our 6-inch Full HD 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.
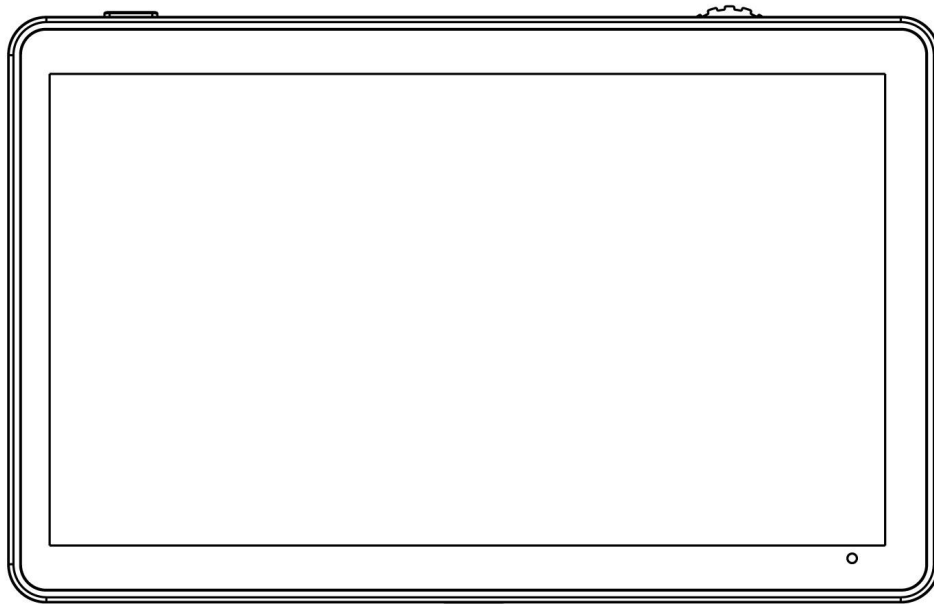
Key Features

➢ 6-inch 1920x1080 full HD IPS screen

➢ Touch screen menu operation, easy to use

➢ Supports 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.

➢ 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

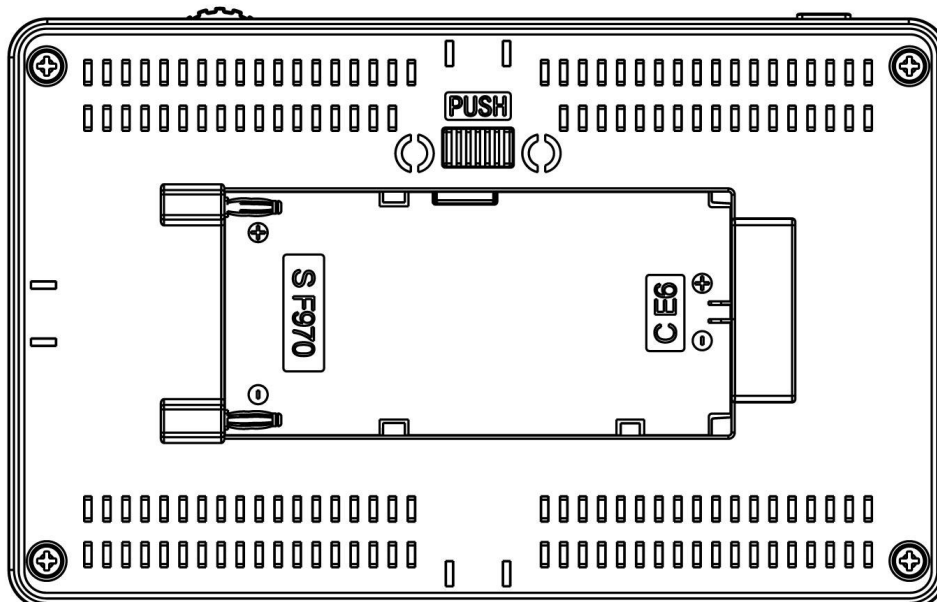➢ DC 8V power out to power your DSLR camera or mirrorless camera.

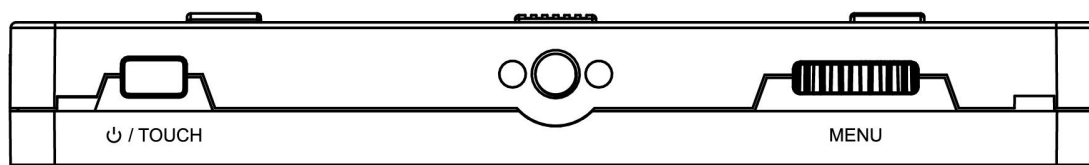# CONTENTS

1. Product Description

● **Front Panel**
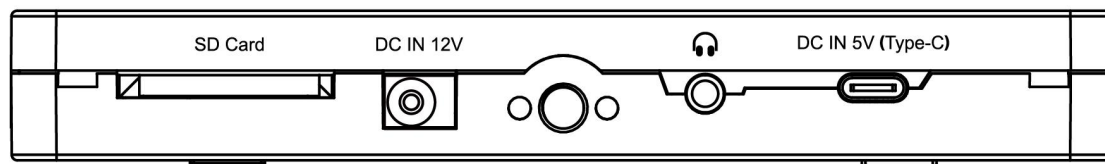

● **Back Panel**

1.1 Button Instruction

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

MENU: Long press to open the main menu and short press to open the shortcut menu. Rotate the wheel to select a menu item, press it again to open the corresponding menu function.

(See details: **2.Menu Operation Instruction**)
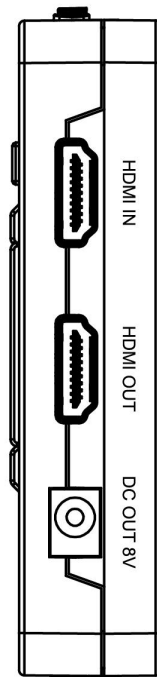
1.2 Port Instruction (Bottom)

SD Card: SD card slot, 3D LUT 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.

1.3 Port Instruction (Left)

HDMI IN: HDMI signal input, up to 4K@60Hz.

HDMI OUT: HDMI signal output, up to 4K@60Hz.

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.

1.4 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.

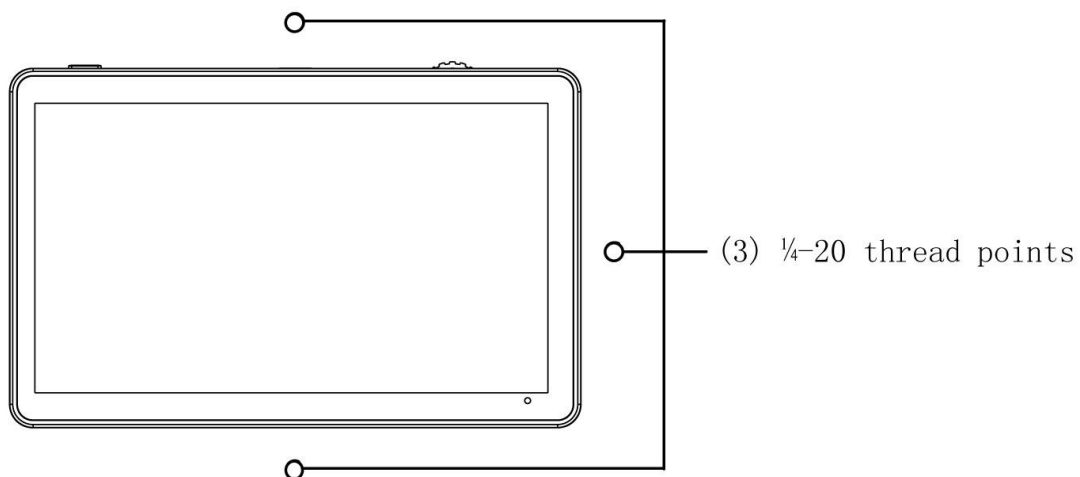● **LP-E6 battery plate for battery of Canon DV:**

  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.

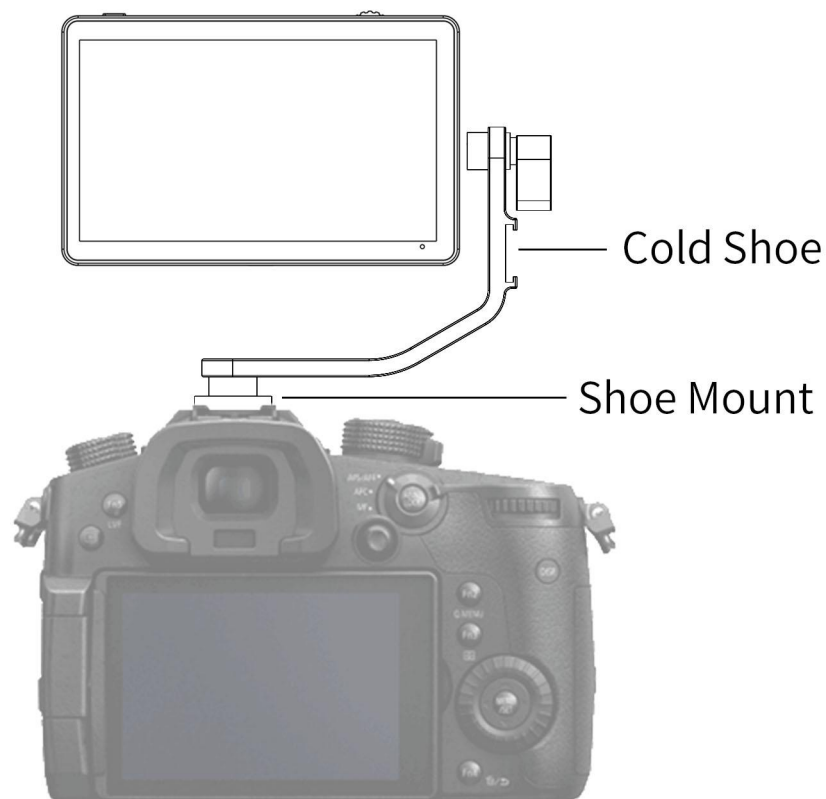## 1.5 Mount Points

There are (3) ¼-20 thread points (top, bottom, & right side) can be

easily connected to the hot shoe mount, tripod fixed installation.

(3) ¼-20 thread points

Tilt Arm Mounting

The monitor secures to your camera using the included Tilt Arm via shoe mount or 1/4"-20 thread. The Tilt Arm enables 180° of tilt for convenient monitoring at nearly any angle. A cold shoe on the Tilt Arm lets you secure equipment (like a microphone, LED light, or wireless receiver) that would otherwise be displaced from the camera's accessory shoe.

Cold Shoe

Shoe Mount

1.6 Sunshade

① **Sunshade**   ② **Sunshade Frame**

③ Fixed Frame   **④ Sunshade Application**

First lock the Sunshade Frame ②with 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). The monitor default to turn on automatically, the indicator turns Yellow, and then input HDMI signal, the indicator will turn Green.
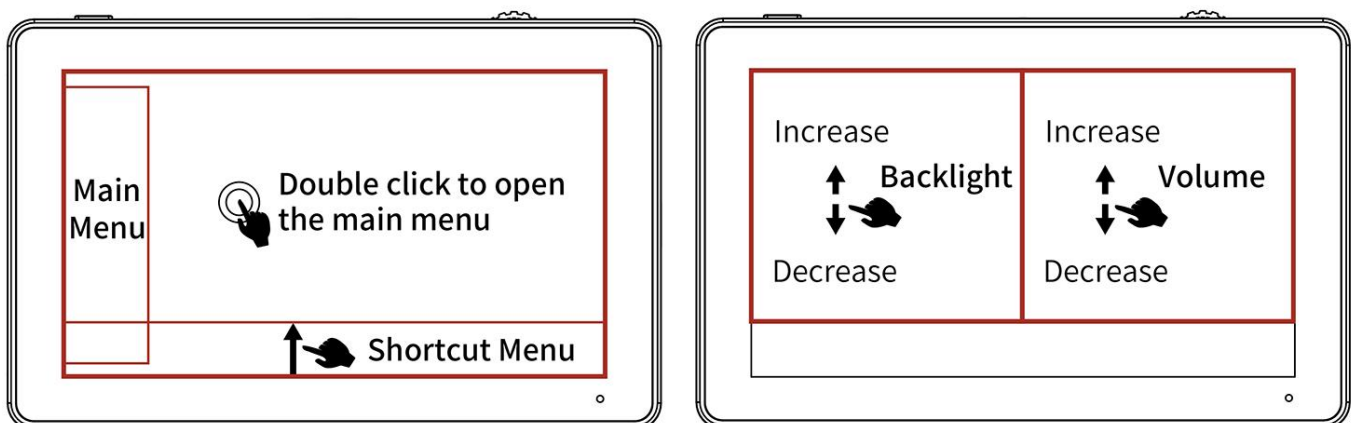
You can also set the power to Manually in menu **System--Power setting**. After setting, you need to long press ☉ / TOUCH to turn on the monitor when plug the power supply.

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 (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.

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:

(2) Menu Operation of MENU Wheel

①. When the menu is not displayed, directly rotate menu knob to adjust the volume or backlight. You can set in the **Left Right**
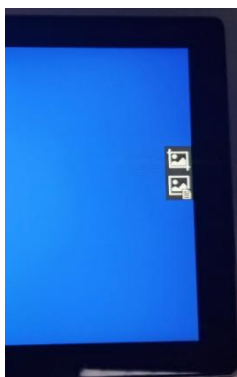
Key Set of menu User Option 👥

②．Gently press the MENU wheel to open the main menu (on the

left side of the screen). Rotate the wheel to select the

secondary function menu. After selecting it, press the wheel,

then rotate the wheel to select or set the option function.

③．Long press the MENU wheel to return or exit the menu

(3)Screenshot + Image Overlay Instruction

The monitor supports screenshot, image overlay functions. The

number of screenshots stored depends on the capacity of SD card.

You can also import the custom images (must be JPG image and

the resolution not exceeding 1920x1080)

Tip: Please use empty SD card or make sure it without upgrade file.

And don't remove the SD card when using this function.

①. After turning on the monitor, insert the SD card to the SD card

slot of the monitor, then input the signal.

②. Swipe your finger to the left on the right side of the screen to

display the screenshot function menu. Tap any position of the

screen can hide the menu.

③**.** Click the icon ![icon] to capture the desired image, then click the

icon ![icon] to browse all the captured images. Click on the icon < or >

to turn pages. If you want to delete an image, firstly click to select

the image you want to delete, then click on the icon ![icon] and follow
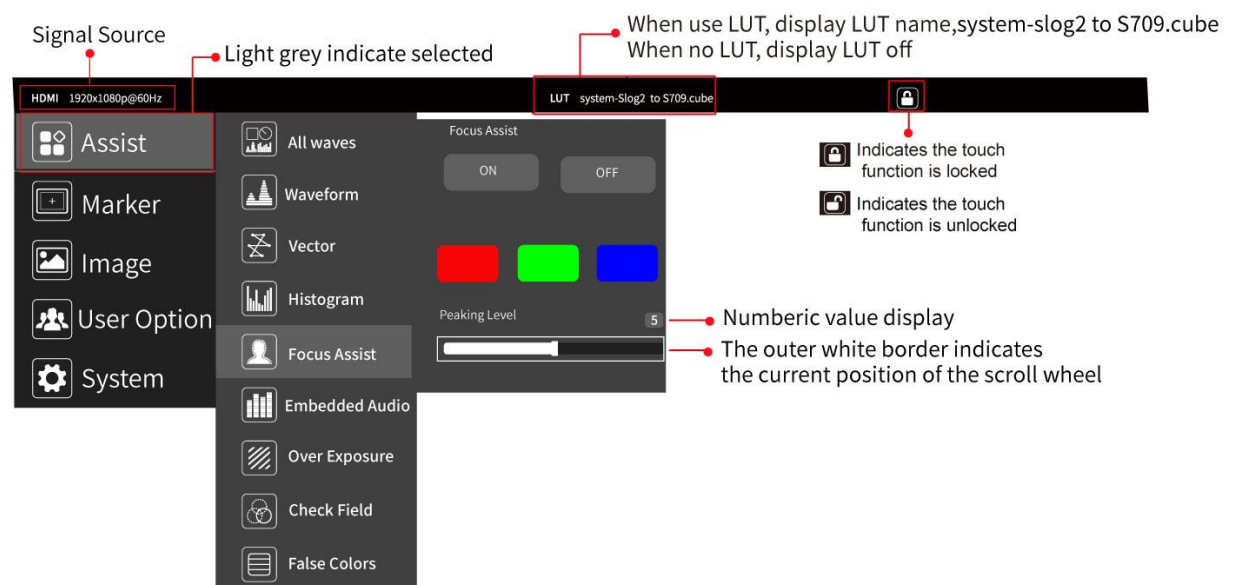
the prompt to delete it.

④**.** Double click the image you want to overlay to complete the

overlay, click anywhere on the screen can display the icons of

adjusting transparency and turning off the overlay function.

✕: click it to close the overlay function

∧/∨: adjust the image transparency（1~10）

(4) MENU Interface

Signal Source

Light grey indicate selected

When use LUT, display LUT name,system-slog2 to S709.cube
When no LUT, display LUT off

HDMI   1920x1080p@60Hz

LUT   system-Slog2 to S709.cube

Assist

All waves

Waveform

Vector

Histogram

Focus Assist

Embedded Audio

Over Exposure

Check Field

False Colors

Marker

Image

User Option

System

Focus Assist

ON   OFF

Peaking Level   5

Indicates the touch
function is locked

Indicates the touch
function is unlocked

Numberic value display

The outer white border indicates
the current position of the scroll wheel

3. Menu Function Instruction

 Assist

	On, Off

	After turning on, waveform, vector, histogram and embedded audio will be shown.
All Waves	
Waveform	**On, Off** **Mode : RGB、YUV、Y** **Position X: 0~100** (moving the waveform horizontally) **Position Y: 0~100** (moving the waveform vertically) **Waves Trans. : Off, 25%, 50%, 75%** 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) 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** **Position X: 0~100** (moving the audio level horizontally) **Position Y: 0~100** (moving the audio level vertically) The Audio Level Meters provide numerical indicators and headroom levels.
Zebra Pattern	**On, Off** **Threshold Value :you can adjust the threshold value 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, Mono** When enabled, hue and saturation adjusted quickly and accurately
False Colors	**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.
Safe Frames	**On, Off** **Mode: 80%, 85%, 90%, 93%, 96%, 2.35:1, 9:16** **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, 9:16, 1:1** **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	**Auto, Manual** (when select Manual, you can set below options) **On, Off** **Mode: H Flip, V Flip, H_V Flip**
Zoom Mode	**On, Off** **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

	On, Off
LUT	After the LUT Switch is turned on, you can use the **Lut** **(SLOG2, SLOG3, LOGC, VLOG)**. **Lut Import：Confirm** **Lut Table** Show the 4 built-in Lut and the custom load Lut (up to 32） 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
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, default to 80** Adjust the screen brightness **Brightness：0~100, default to 50** Adjust the image brightness **Contrast：0~100, default to 50** 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, default to 50** Adjustment of color concentration **Tint：0~100, default to 50**
Color Adjustment	**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 of the image can be adjusted (0~255), made the colors of the image achieve your favorite.
Left Right Key Set	**Volume, Backlight**

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,** Italiano
OSD	**OSD Time：Off, 15Sec, 30Sec, 45Sec** Select the display time of the menu on the screen **OSD Trans: Off, 25%, 50%, 75%**

OSD Option	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
EDID **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	**On, Off** 0~100 Adjusting the speaker volume
Power Settings	**Power on: Auto, Manual** Default to Auto. If set Manual, please press power key to turn on after the power plug in.
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. How to Load LUT

4.1 SD card format

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

4.2 Max Files Limit Maximum 32 Lut files

4.3 File requirements

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

Remark: LUT file name must be English or Arabic numerals

4.4 Steps for loading

4.4.1 Make sure the SD card correctly insert

4.4.2 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.

5. Technical Parameters

Panel Size	6" touch screen
Resolution	1920 × 1080 pixels
Dot Pitch	0.069 (H) × 0.069 (V) mm
Pixel Density	367PPI
Aspect Ratio	16:9
Brightness	450cd/m^2
Contrast	1000:1
Viewing Angle	80°/80°(L/R) 80°/80°(U/D)

Backlight	LED
Adjustable Backlight	Yes
Input	HDMI
Output	HDMI , 3.5mm stereo headphone jack
Power In	DC IN 12V, Barrel (5.5mm outer, 2.1mm inner), DC IN 5V (Type-C)
Power Out	DC OUT 8V, Barrel (5.5mm outer, 2.1mm inner; Power DSLR or mirrorless camera)
HDMI Input/ Output Support Format	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) 3840×2160p (60/50/30/29.97/25/24/23.98) 4096×2160p (60/50/30/29.97/25/24/23.98)
Power Input Voltage	7～24V
Power Consumption	≦8W
Unit Size (mm)	148Lx93Hx20D (mm)
Unit Weight	235g
Mount Points	(3) ¼-20 thread points (top, bottom, right sides)
Working Temperature	-20℃～50℃
Storage Temperature	-30℃～60℃

6. Trouble Shooting

6.1 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.

6.2 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.

6.3 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.