5.5″ Aluminium Camera Monitor

User Manual

Foreword

Thank you for purchasing our 5.5-inch aluminium camera 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 full HD IPS screen.viewing details with confidence
- Solid and durable aluminium housing
- Touch screen and intuitive button operation, meet different needs
- Supports 3D LUT Log to REC.709 and user 3D LUT upload (up to 32).
- 9:16 vertical ratio marker, perfect for Tik tok, Instogram
- 4-group user switching, quickly access the already set menu
- Waveform, Vector, Histogram and audio meter can moveable horizontally and vertically
- HDR monitoring, what you see is what you get
- Stereo Earphone output
- DC 8V power out, can power for camera

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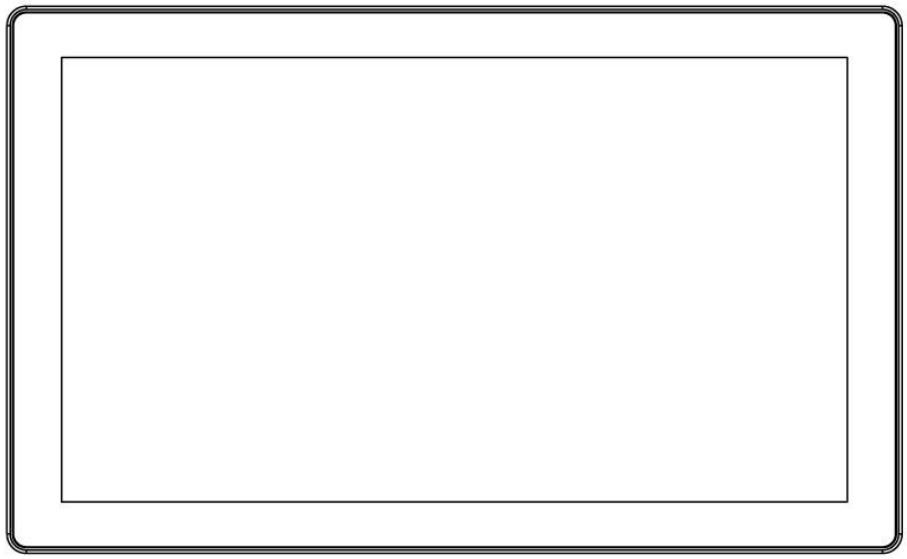
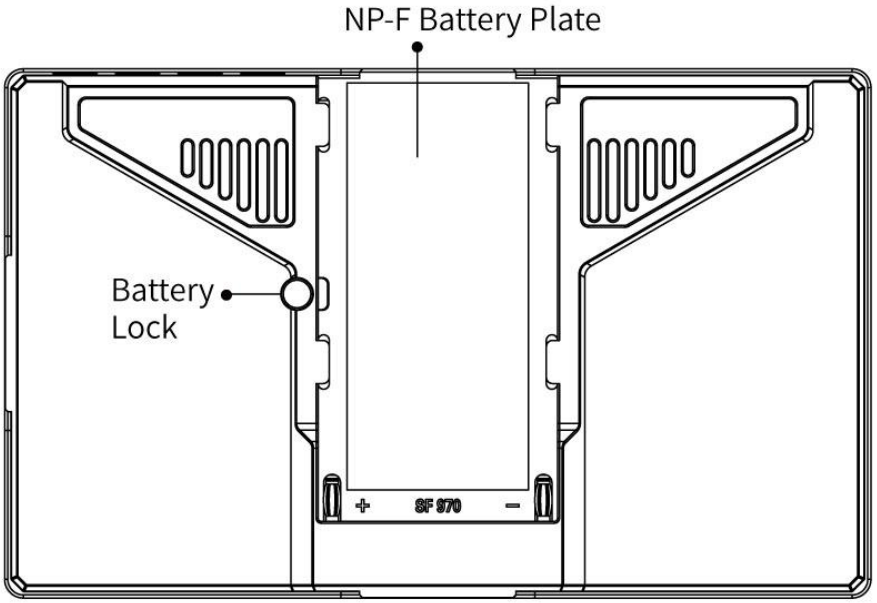
1. Product Description

1.1 Front Panel Instruction



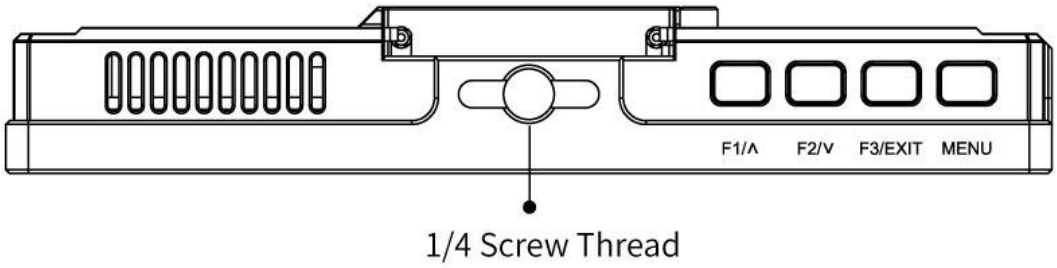
1.2 Rear Panel Instruction



NP-F Battery Slot: It is applicable to install NP-F series of batteries.

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

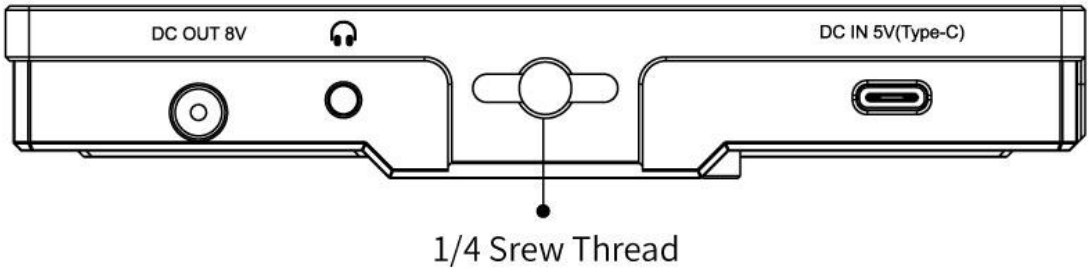
1.3 Top Instruction



1/4 Screw Thread: can be easily connected to the hot shoe mount, tripod fixed installation.

Button	Function when OSD is not displayed	Function when OSD is displayed
F1/∧	Custom function button F1	Select previous menu item; Increase or adjust value of selected parameter
F2/∨	Custom function button F2	Select next menu item; Decrease or adjust value of selected parameter
F3|EXIT	Custom function button F3	Return/Exit Menu
MENU	Display OSD Main menu	Confirm button

1.4 Bottom Ports Instruction



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.

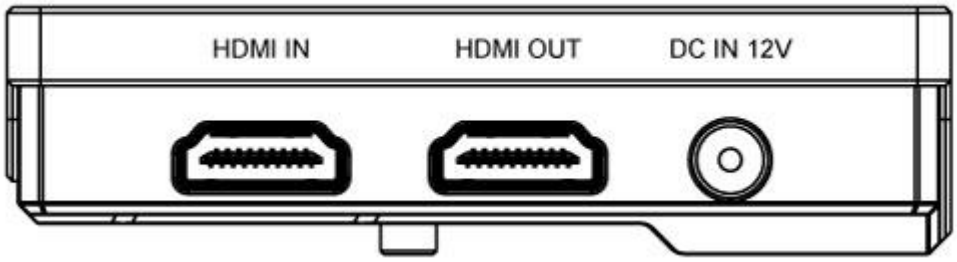
: 3.5mm earphone port output

1/4 Screw Thread: can be easily connected to the hot shoe mount, tripod fixed installation.

DC IN 5V (Type-C): ①Type-C power input. It is recommended to be used for local power supply only. It is not recommended to connect other devices to provide loop-out power.

②LUT files import /firmware update

1.5 Left Port Instruction

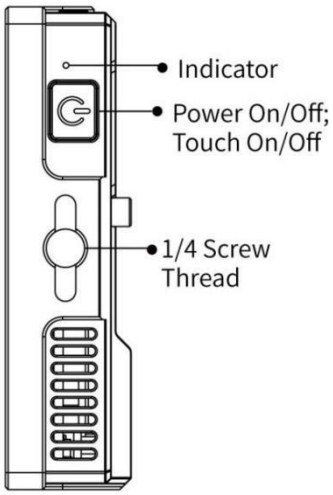


HDMI IN: V2.0, HDMI signal input, up to 4K@60Hz.

HDMI OUT: V2.0, HDMI signal output, up to 4K@60Hz.

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

1.6 Right Port Instruction



Indicator: After connecting the power, the indicator light is on (red). after the monitor turning on, it turns yellow. After the signal is connected, it turns green.

Power On/Off: Long press turn on/off power; Short press open/closed touch function

1/4 Screw Thread: can be easily connected to the hot shoe mount, tripod fixed installation.

1.7 Power Supply Way

(1) The rear cover of the monitor is equipped with a F970 battery plate, which is applicable to F970 series of batteries.

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

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

Remark: Please take off the battery from the monitor if you don’t use the monitor in a long time.

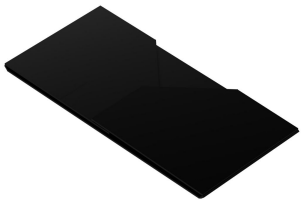
(2) The left side of the monitor has a DC 12V input power port

(suitable use 1.5A power adapter，DC5.5*2.1mm power plug ）
and supports 7 ~ 24V wide voltage.
The DC power adapter needs to be purchased separately.

(3) The bottom of the monitor has a Type-C 5V input power port. This port can be connected to the power bank for power supply and is not used for data transmission; it is recommended to be used only for local power supply, and it is not recommended to connect other devices to provide loop-out power.

(4) The monitor also provides a DC 8V power output (suitable for DC5.5*2.1mm power plug. Can power for your camera with a separately available DC coupler via adaptor (NP-FW50 Sony & LP-E6 Canon&DMW-BLF19 Panasonic). More adapters coming soon.

1.8 Installation of Sunshade



①Sunshade

②Sunshade 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 correctly connected to the power supply, the indicator light is on (red). Long press ⏻ turn on power , the indicator light turns yellow, and after the HDMI signal is input, the indicator light turns green.

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

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

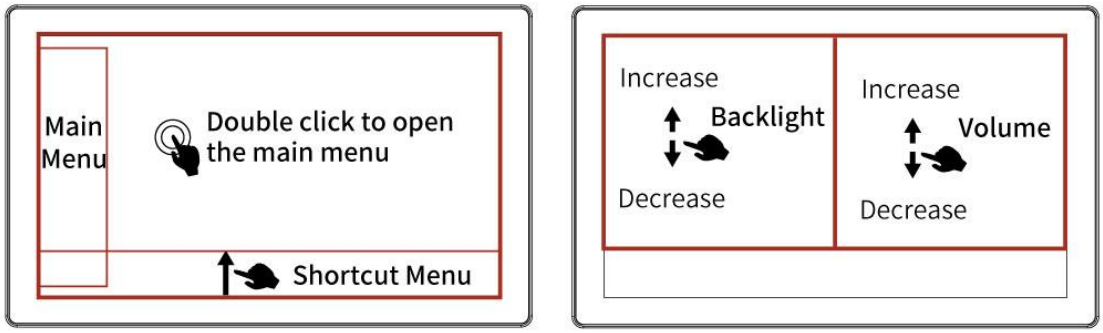
①. Double-click on the screen to open the main menu (show on the left side of the screen) and click on the corresponding menu to display the secondary menu. You can enter the corresponding function option and click directly to select or set. Click the touch screen to exit the menu.

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:



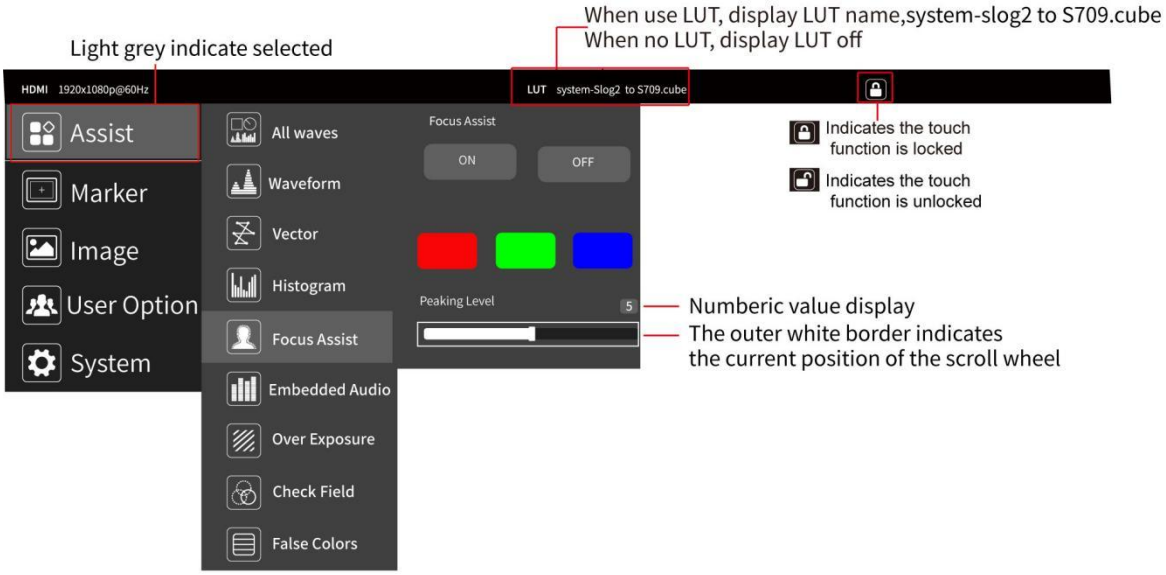
2.2 Button Menu Operation

①.Press “**MENU**” button to enter OSD main menu, press “F1/Λ” or “F2/V”button to select first level items, then press “**MENU**” button confirm to enter secondary menu, press “F1/Λ”or “F2/V„ button to select items.

②. After selected press MENU button to confirm and enter function menu, press “F1/Λ”or “F2/V” button to select the corresponding function or adjust the parameters.

③. Press **F3|EXIT** button to return / exit the menu

3. MENU Interface Instruction



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) 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.

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, 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

Grid	**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** **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.
	On, Off

Image Flip	**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

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** **Lut Table** Show the 4 built-in Lut and the custom load Lut (up to 32）

 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**
 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.
 Shortcut Key	All Waves, Waveform, Vector, Histogram, Embedded Audio, Center Marker, Safe Frames, Grid, Focus Assist, False Colors, Over Exposure, Anamorphic, Image Freeze, Check Field, Zoom Mode, Image Flip, Aspect Ratio, Ratio Marker To set the 3 shortcut custom button F1~F3 on the panel e.g.: Tap **User option--Shortcut Key--F1** select one of functions, such as All Waves , the cursor will be changed to gray color after selected. Directly press F1 button of monitor panel to open All Waves Same setting for F2~F3

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, 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
 Cooling Fan	**ON, OFF** **Mode:1~5** **Note: the fan default to ON and with 3 mode**
 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** How to upgrade? 1. USB flash driver format

	Support FAT32 2. After copying the update file to USB flash driver insert to Type-C to USB adapter and connect with the TYPE-C interface of monitor , press MENU key **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

5. How to Load LUT

5.1 USB flash driver format FAT32

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 USB flash driver insert to Type-C to USB adapter and connect with the TYPE-C interface of monitor

5.4.2 Enter main menu --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 --**LUT**--**Lut Import -- Confirm,** the imported LUTs will be clear up.

6. Technical Parameters

Panel Size	5.5-inch
Resolution	1920 × 1080 pixels
Dot Pitch	0.069 (H) × 0.069 (V) mm
Aspect Ratio	16:9
Brightness	1000cd/m^2
Contrast	1000:1
Viewing Angle	80°/80°(L/R) 80°/80°(U/D)
Backlight	LED
Adjustable Backlight	Yes
Input	HDMI 2.0
Output	HDMI 2.0
Audio	3.5mm stereo headphone jack
Power In	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
Power Out	DC OUT 8V, Barrel (5.5mm outer, 2.1mm inner） DSLR or mirrorless camera)
HDMI Input/ Output Support Format	480i/576i/480p/576p 720p (60/59.94/50/30/29.97/25/24/23.98) 1080i (60/59.94/50) 1080p (60/59.94/50/30/29.97/25/24/23.98) 3840×2160p (60/50/30/29.97/25/24/23.98) 4096×2160p (60/50/30/29.97/25/24/23.98)

Power Input Voltage	7～24V
Power Consumption	≦11W
Unit Size (mm)	138.5x84.5x22 (mm)
Unit Weight	249g
Mount Points	¼-20 thread points (right,top, bottom)
Working Temperature	-20℃～50℃
Storage Temperature	-30℃～60℃

7. Trouble Shooting

7.1 Only black and white or monochrome picture:

① please check saturation, brightness & contrast adjustment.

② Please check "Check Field" 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

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.