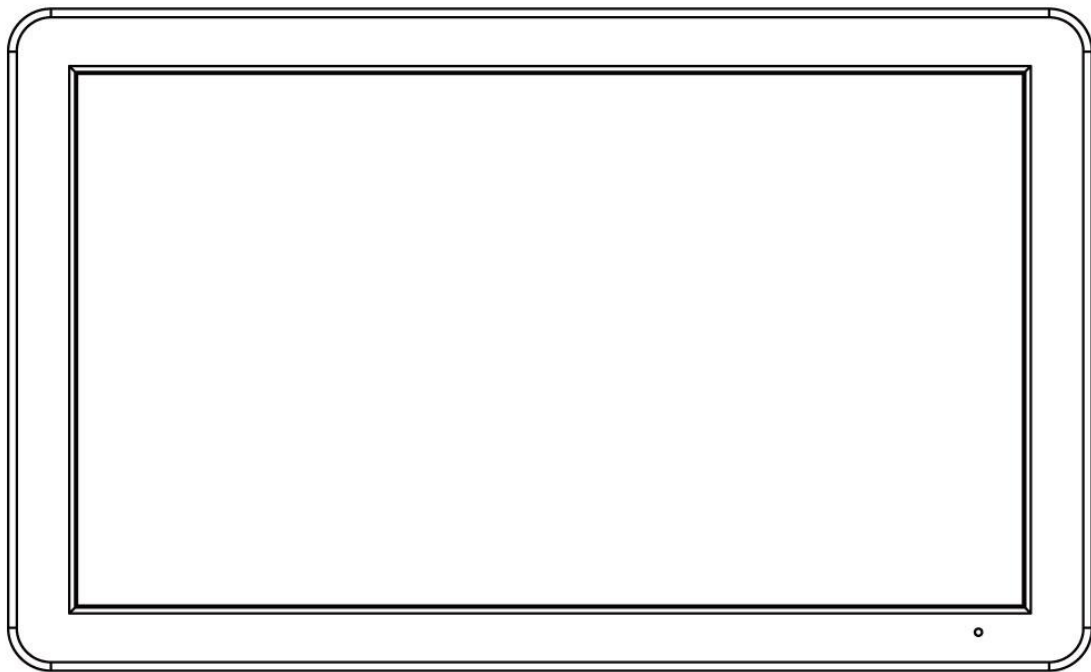


6" Aluminium Camera Monitor



User Manual

Foreword

Thank you for purchasing our 6-inch aluminium camera monitor. Please read this manual carefully before using the unit. Have a great experience!

Cautions

- 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

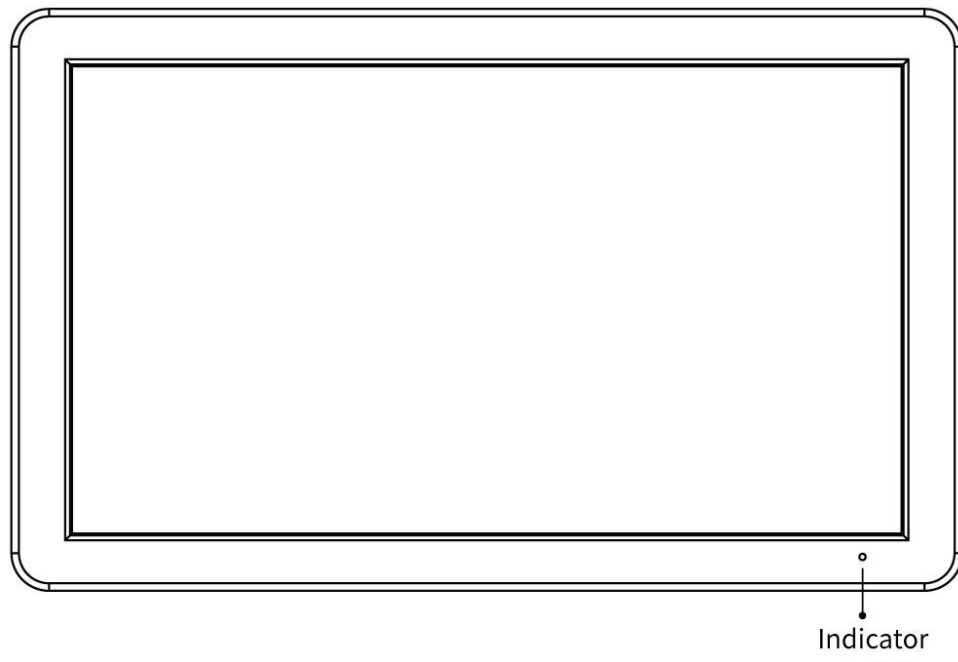
- 6-inch 1920x1080 full HD IPS screen.viewing details with confidence
- Solid and durable aluminium housing
- Supports 3D LUT Log to REC.709 and user 3D LUT upload (up to 32).
- 4-group user switching, quickly access the already set menu
- Waveform, Vector, Histogram and audio meter can moveable horizontally and vertically
- HDR monitoring, what you see is what you get
- Multiple power supply ways (DC IN, Type-C 5V, Battery Slot)
- Stereo Earphone output
- DC 8V power out to power your DSLR camera or mirrorless camera.

CONTENTS

1. Product Description	4
1.1 Front Panel Instruction	4
1.2 Rear Panel Instruction	4
1.3 Top Button Instruction	5
1.4 Bottom Port Instruction	6
1.5 Left Port Instruction	6
1.6 Power Supply Way	7
1.7 Sony F970 Install and Power Kit	10
1.8 Mount Points	10
1. 9 Sunshade	12
2. Menu Operation Instruction	13
3. Menu UI Interface Instruction	14
4. Menu Function Instruction	15
5. How to Load LUT	21
6. Technical Parameters	22
7. Trouble Shooting	23

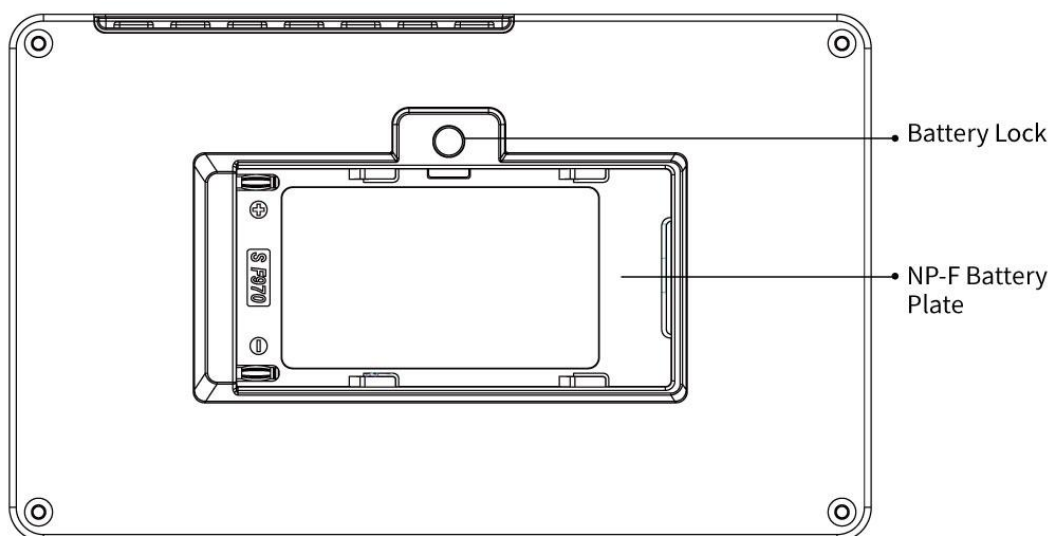
1. Product Description

1.1 Front Panel 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.

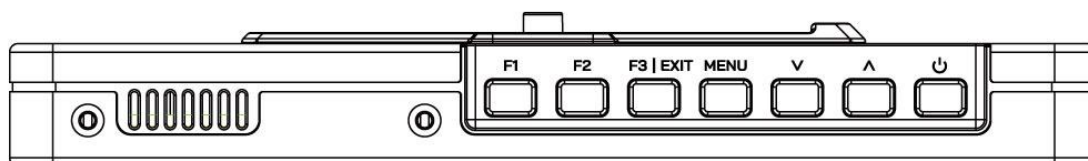
1.2 Rear Panel Instruction



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

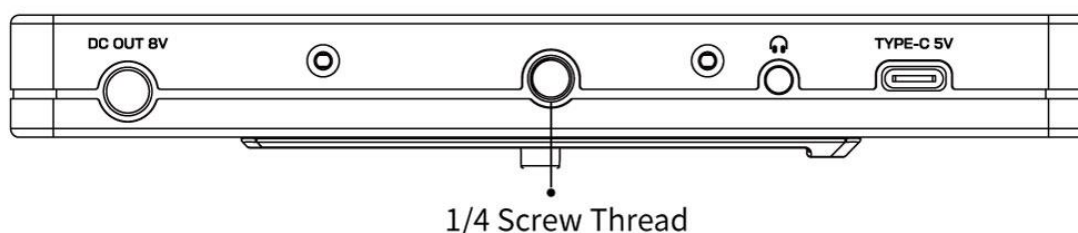
NP-F Battery Slot: It is applicable to install NP-F series of batteries.

1.3 Top Button Instruction



Button	Function when OSD is not displayed	Function when OSD is displayed
F1	Custom function button F1	/
F2	Custom function button F2	/
F3 EXIT	Custom function button F3	Return/Exit Menu
MENU	Display OSD Main menu	Confirm button
V	Decrease the volume or backlight	Select next menu item; Decrease or adjust value of selected parameter
^	Increase the volume or backlight	Select previous menu item; Increase or adjust value of selected parameter
EXIT/⏻	Power On/Off button	

1.4 Bottom Port 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.

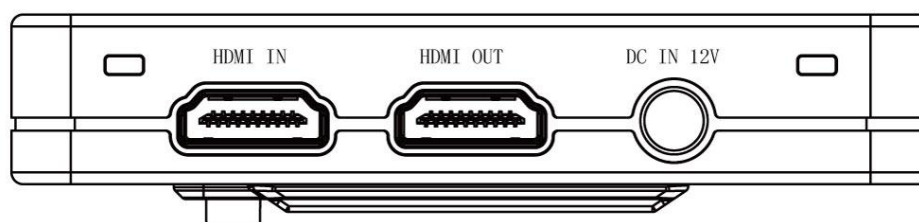


: 3.5mm earphone port output

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



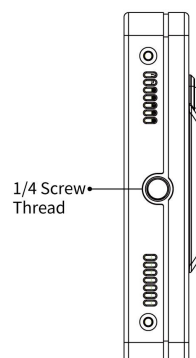
HDMI IN: V2.0, HDMI signal input, up to 4K@60Hz.

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



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 (5.5mm outer, 2.1mm inner) and supports 7 ~ 24V wide voltage.

The DC power adapter needs to be purchased separately.

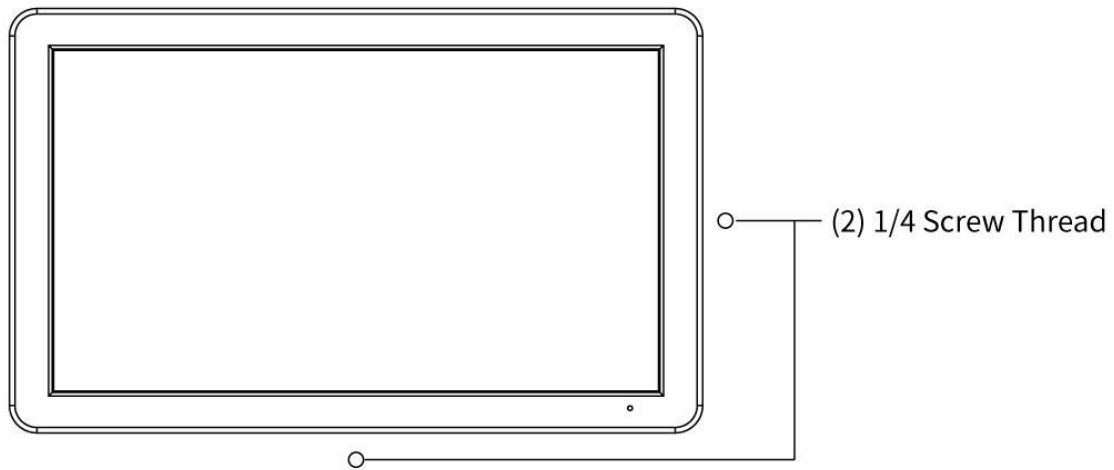
Note: When using DC OUT 8V to power other device simultaneously, need to use 12V/2.5A power adapter at least

(3) The bottom of the monitor has a Type-C 5V input power port.

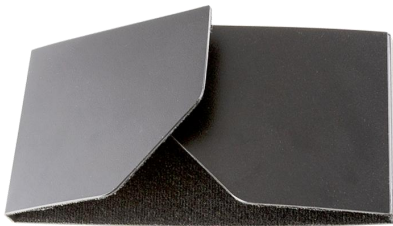
This port can be connected to the power bank for power supply and is not used for data transmission; it is recommended to be used only for local power supply, and it is not recommended to connect other devices to provide loop-out power.

1.8 Mount Points

There are (2) 1/4-20 thread points (bottom, right side) can be easily connected to the hot shoe mount, tripod fixed installation.



1.9 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.

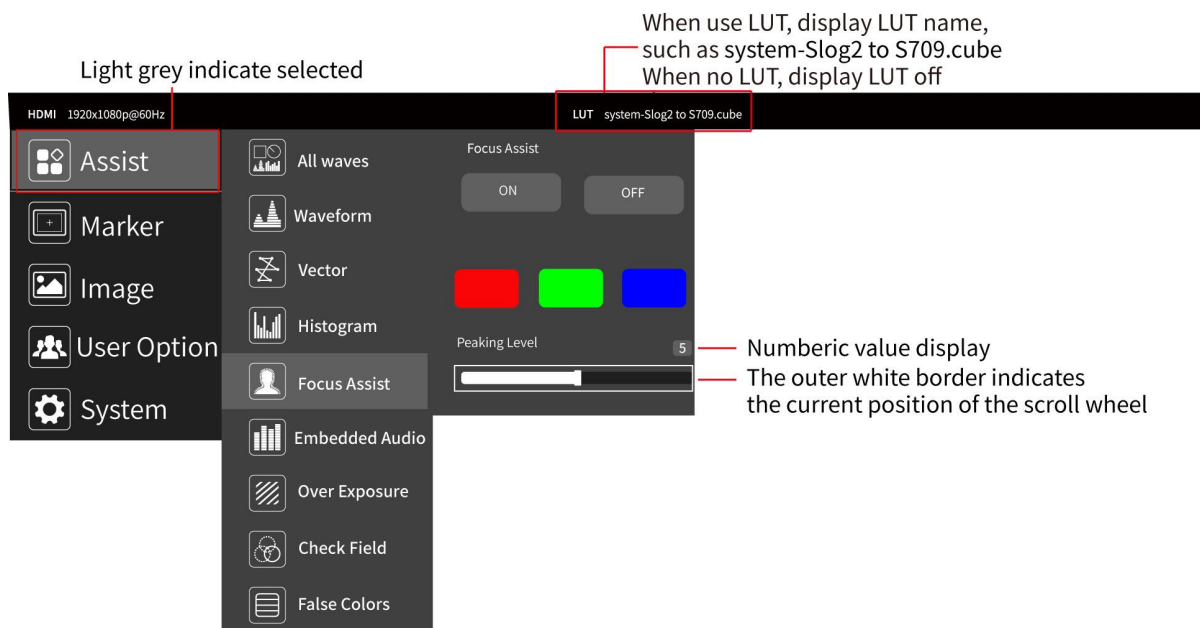
2. Menu Operation Instruction

After the monitor is correctly connected to the power supply, the indicator light is on (red). Then the monitor will turn on automatically, the indicator light turns yellow, and after the HDMI signal is input, the indicator light turns green. Press  button to shut down the monitor but the power still connected, please press  button manually to turn on.

- ①. When the menu is not displayed, directly press the "∨" or "∧" button to adjust the volume or backlight. You can set as volume or backlight via menu **User Option** --- **Left Right Key Set** 

- ②. Press "**MENU**" button to enter OSD main menu, press "∨" or "∧" button to select first level items, then press "**MENU**" button confirm to enter secondary menu, press "∨" or "∧" button to select items.
- ③. After selected press MENU button to confirm and enter function menu, press "∨" or "∧" button to select the corresponding function or adjust the parameters.
- ④. Press **F3|EXIT** button to return / exit the menu



3. MENU Interface Instruction










4. Menu Function Instruction



Assist




 <p>All Waves</p>	<p>On, Off</p> <p>After turning on, waveform, vector, histogram and embedded audio will be shown.</p>
 <p>Waveform</p>	<p>On, Off</p> <p>Mode : RGB、YUV、Y</p> <p>Waves Trans. : Off, 25%, 50%, 75%</p> <p>Position X: 0~100 (moving the waveform horizontally)</p> <p>Position Y: 0~100 (moving the waveform vertically)</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>Vector</p>	<p>On, Off</p> <p>Position X: 0~100 (moving the Vector horizontally)</p> <p>Position Y: 0~100 (moving the Vector vertically)</p> <p>shows how saturated the image is and where the pixels in the image land on the color spectrum.</p>
 <p>Histogram</p>	<p>On, Off</p> <p>Mode: RGB1、RGB2、 Y</p> <p>Position X: 0~100 (moving the histogram horizontally)</p> <p>Position Y: 0~100 (moving the histogram vertically)</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>Focus Assist</p>	<p>On, Off</p> <p>Color : (Red, Green, Blue)</p> <p>Peaking Level : you can adjust the peaking level after turning on (1 ~ 10)</p> <p>It highlights the areas that are in focus so you are able to quickly focus the camera and not miss crucial shots.</p>
 <p>Embedded Audio</p>	<p>On, Off</p> <p>Position X: 0~100 (moving the audio level horizontally)</p> <p>Position Y: 0~100 (moving the audio level vertically)</p> <p>The Audio Level Meters provide numerical indicators and headroom levels.</p>
 <p>Over Exposure</p>	<p>On, Off</p> <p>Exposure Level : you can adjust the exposure level after turning on (10~100)</p> <p>Areas of the image over a certain threshold are filled with a</p>

	striped pattern to dramatically highlight areas where too much light is falling on the image sensor.
 <p>Check Field</p>	<p>On, Off</p> <p>Mode : Red, Green, Blue, Mono</p> <p>When enabled, hue and saturation adjusted quickly and accurately</p>
 <p>False Colors</p>	<p>On, Off</p> <p>Mode: Normal, ARRI</p> <p>An image that depicts an object in colors that differ from those a photograph (a true color image) would show.</p>



Marker

 <p>Grid</p>	<p>On, Off</p> <p>Mode: 2x2,3x3,4x4,5x5,6x6,7x7,8x8,9x9, Custom</p> <p>Rows: 2~9</p> <p>Columns: 2~9</p> <p>When selecting Custom, you can custom the rows and columns of the grid</p> <p>Color: Red, Green, Blue, Black, White, Gray</p> <p>The area of the picture can be divided into 4, 9, 16, 25, 36, 49, 64, 81 equal grids.</p>
 <p>Safe Frames</p>	<p>On, Off</p> <p>Mode: 80%, 85%, 90%, 93%, 96%, 2.35:1, 9:16</p> <p>Color: Red, Green, Blue, Black, White, Gray</p>
 <p>Center Marker</p>	<p>On, Off</p> <p>Color : Red, Green, Blue, Black, White, Gray</p>

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



Image












 <p>Scan Mode</p>	<p>Under Scan, Over Scan</p>
 <p>Aspect Ratio</p>	<p>Auto, 16:9, 16:10, 4:3, 5:4, 1.85:1, 2.35:1, Full Screen</p> <p>Provides a wide variety of aspect ratio to match different camera anamorphic lenses.</p>
 <p>Anamorphic</p>	<p>On, Off</p> <p>Mode: 1.33X, 1.6X, 2.0X, 2.0X MAG, User</p> <p>Under the User, 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>Image Flip</p>	<p>On, Off</p> <p>Mode: H Flip, V Flip, H_V Flip</p>
 <p>Zoom Mode</p>	<p>On, Off</p> <p>Mode: 2X、4X、9X、16X、User</p> <p>Under the User, can be customized (100%~200%)</p> <p>It is HD signal in any part, an amplification for high quality close-up.</p>
	<p>On, Off</p>




Image Freeze	
 <p>P2P</p>	<p>On, Off</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




 <p>LUT</p>	<p>On, Off</p> <p>After the LUT Switch is turned on, you can use the Lut (SLOG2, SLOG3, LOGC, VLOG).</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>Lut Import: Confirm</p> <p>Lut Table</p> <p>Show the 4 built-in Lut and the custom load Lut (up to 32)</p>
 <p>HDR</p>	<p>On, Off</p> <p>Mode: HLG1, HLG2, HLG3</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>Display Adjustment</p>	<p>Backlight: 0~100</p> <p>Adjust the screen brightness</p> <p>Brightness: 0~100</p>





	<p>Adjust the image brightness</p> <p>Contrast: 0~100</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>Saturation: 0~100</p> <p>Adjustment of color concentration</p> <p>Tint: 0~100</p>
 <p>Color Adjustment</p>	<p>Display Range: Auto, Limit, Full</p> <p>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.)</p> <ol style="list-style-type: none"> 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. <p>Color Temp.: 5600K, 6500K, 9300K, User</p> <p>Under the User, the red, green and blue of the image can be adjusted (0~255), made the colors of the image achieve your</p>

	favorite.
 Shortcut Key	<p>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</p> <p>To set the 3 shortcut custom button F1~F3 on the panel e.g.: press MENU key to enter main menu, using “√”or “^” select User Option and press MENU button confirm, then select  shortcut key and press MENU button confirm. Select F1 and confirm to pop-up function items select one of them, such as All Waves , the cursor will be changed to gray color after confirmed. Directly press F1 button of monitor panel to open All Waves</p> <p>Same setting for F2~F3</p>
 Left Right Key Set	<p>Volume, Backlight</p> <p>You can press “√”or “^”key to adjust the volume or backlight directly after set, when the menu not display</p>



System

 User Switch	<p>User Switch: 1~4</p> <p>you can save the set menu as 1-4 and can be called directly next time</p>
 Language	<p>English、简体中文、Español、Português、Français、Nederlands、Deutsch、日本語、繁體中文、한국어로、русский язык, Italiano</p>
 OSD Option	<p>OSD Time: Off, 15Sec, 30Sec, 45Sec</p> <p>Select the display time of the menu on the screen</p> <p>OSD Trans: Off, 25%, 50%, 75%</p>

	<p>Adjust the transparency of the menu picture background on the screen</p> <p>No Signal: Red, Green, Blue, Black, White, Gray</p> <p>Can be change the background color of screen when no signal</p>
 <p>EDID Settings</p>	<p>EDID Settings: 2.0, 1.4</p> <p>Compatible with resolution of different camera</p> <p>Default to 2.0 (if set 1.4 manually, then input 4K60 signal, you need to set to 2.0 again)</p>
 <p>Volume</p>	<p>On, Off</p> <p>0~100</p> <p>Adjusting the speaker volume</p>
 <p>Reset</p>	<p>Select Reset and press MENU button Confirm, the system back to original setting.</p>
 <p>Firmware Update</p>	<p>Firmware Version (display the version number)</p> <p>Firmware Update</p> <p>Confirm</p> <p>How to upgrade?</p> <ol style="list-style-type: none"> 1. USB flash driver format <p>Support FAT32</p> <ol style="list-style-type: none"> 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	6-inch
Resolution	1920 × 1080 pixels
Dot Pitch	0.069 (H) × 0.069 (V) mm
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 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) can be power for 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	≤9W
Unit Size (mm)	151.8*92.8*17.1 (mm)
Unit Weight	184g
Mount Points	¼-20 thread points (right, 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.