6″ HDMI Touchscreen Monitor

2600nits Daylight Viewable

User Manual

Product Overview

Thank you for using our 6 inch ultra bright touch screen monitor. This monitor has HDMI input and output, auxiliary power output, touch screen menu operation, HDR monitoring and support user 3D LUT upload and other features. Advanced features include Parade, Vector, Histogram, Audio Meter, Focus Assist, False Color, Zebra Exposure, Pixel to Pixel, Center Marker, Safety Marker, Marker Mat, Monochrome, Image Freeze, Zoom, Anamorphic etc. It is an ideal, portable and lightweight viewfinder and video monitor. The monitor is equipped with a battery plate; you can use the power adapter supply or use the external battery for power supply.

⚠️ **To insure the best use of the unit, please read the user's manual carefully**

CAUTION

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.
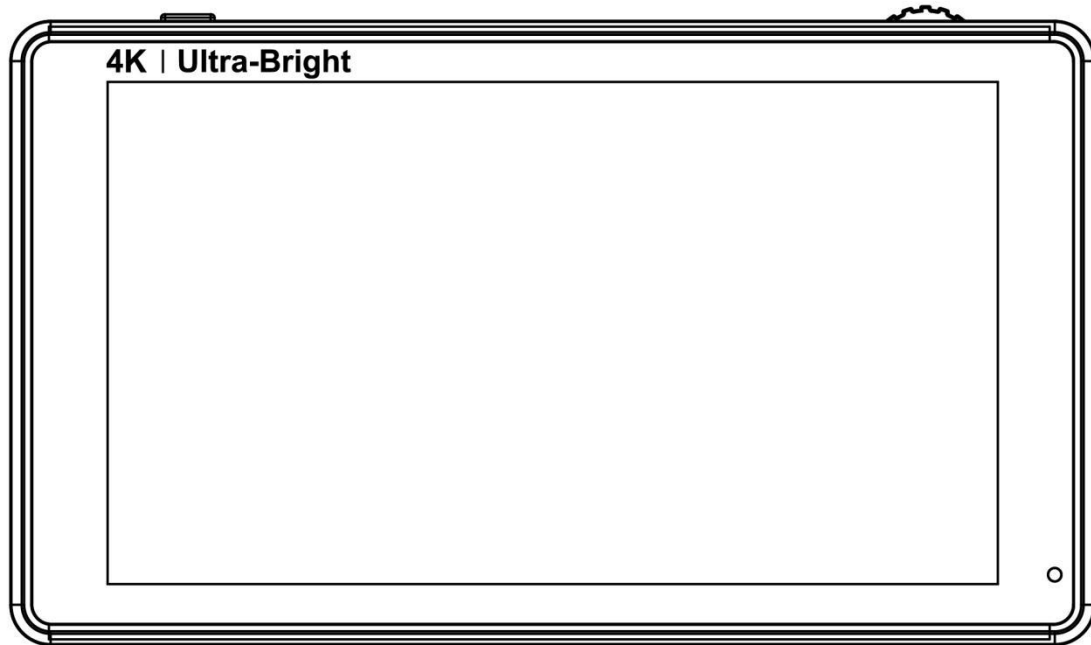
FEATURES

✒ Touch screen menu operation

✒ Support HDR monitoring

✒ User custom 3D LUT import by SD card

✒ 1920x1080 full HD IPS screen, 2600nits daylight viewable

✒ All Waves display, Parade, Vector, RGB Histogram functions

✒ Histogram is a quantitative tool to inspect the image brightness, to guide the exposure control

✒ Focus Assist (red, green, blue, white, yellow five peaking colors optional)

✒ Audio Meter

✒ Zebra and False Color function, convenient to guide the using light when shooting and the post production

✒ Monochrome (gray, red, green, blue)

✒ Image Zoom-in function

✒ Anamorphic Mode

✒ Image Flip H and Flip V, Auto Mirror

✒ Image Freeze

✒ Pixel to Pixel

✒ Marker Mat, Center Marker and Safety Marker

✒ Brightness, Contrast, Sharpness, Hue, Saturation and Color Temp Adjustment.

✒ Stereo Earphone output

✒ DC 8.4V power out to power your DSLR camera or mirrorless camera

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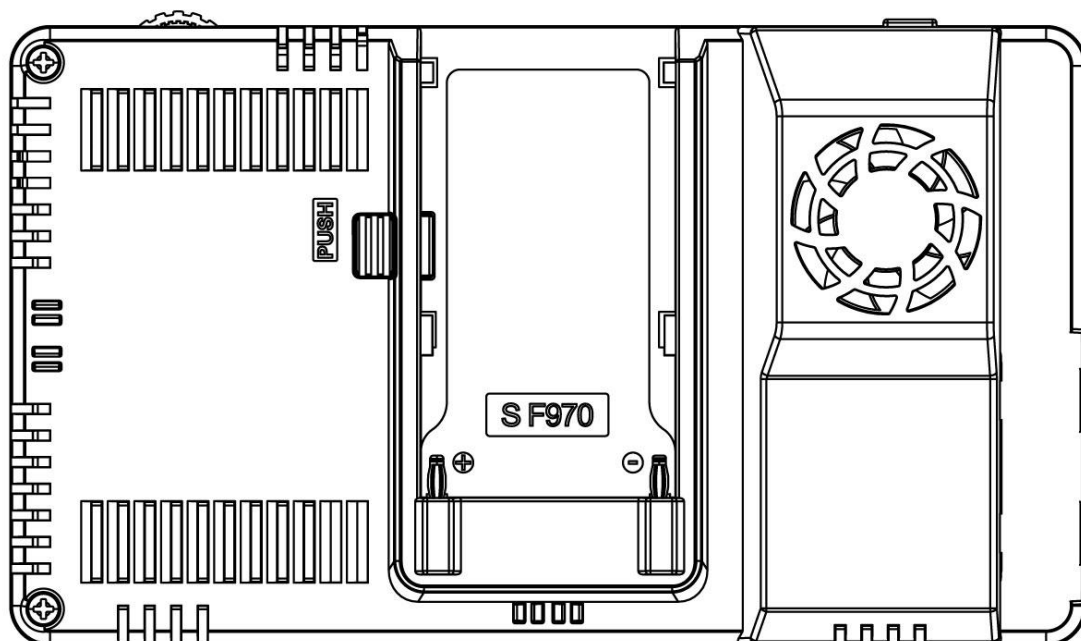
1. Product Description
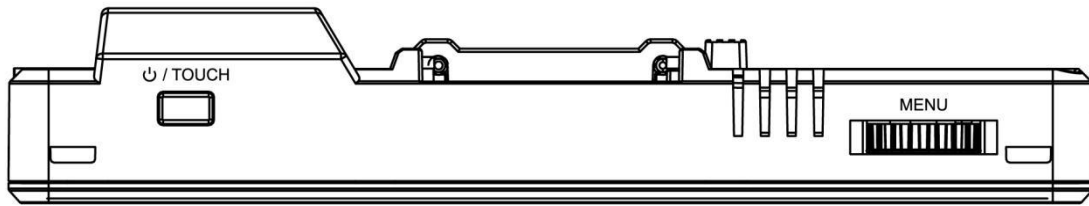
● Front Panel

4K | Ultra-Bright

● Back Panel

PUSH

S F970

1.1 Button Instructions

⏻ / 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 Instructions (Bottom)
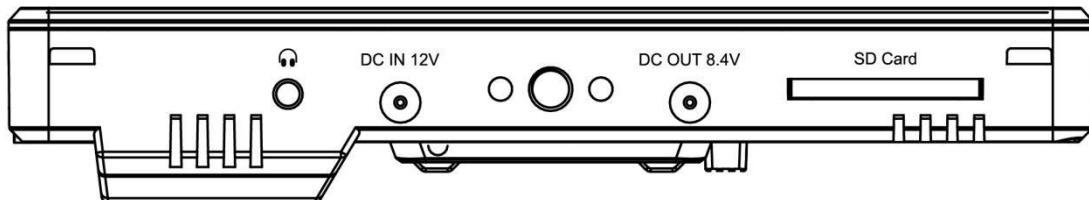
🎧 **:** 3.5mm earphone port output

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

DC OUT 8.4V: DC power output, polarity as the output power

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

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

1.3 Port Instructions (Left)

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

HDMI OUT: HDMI signal output, up to 4K@30Hz
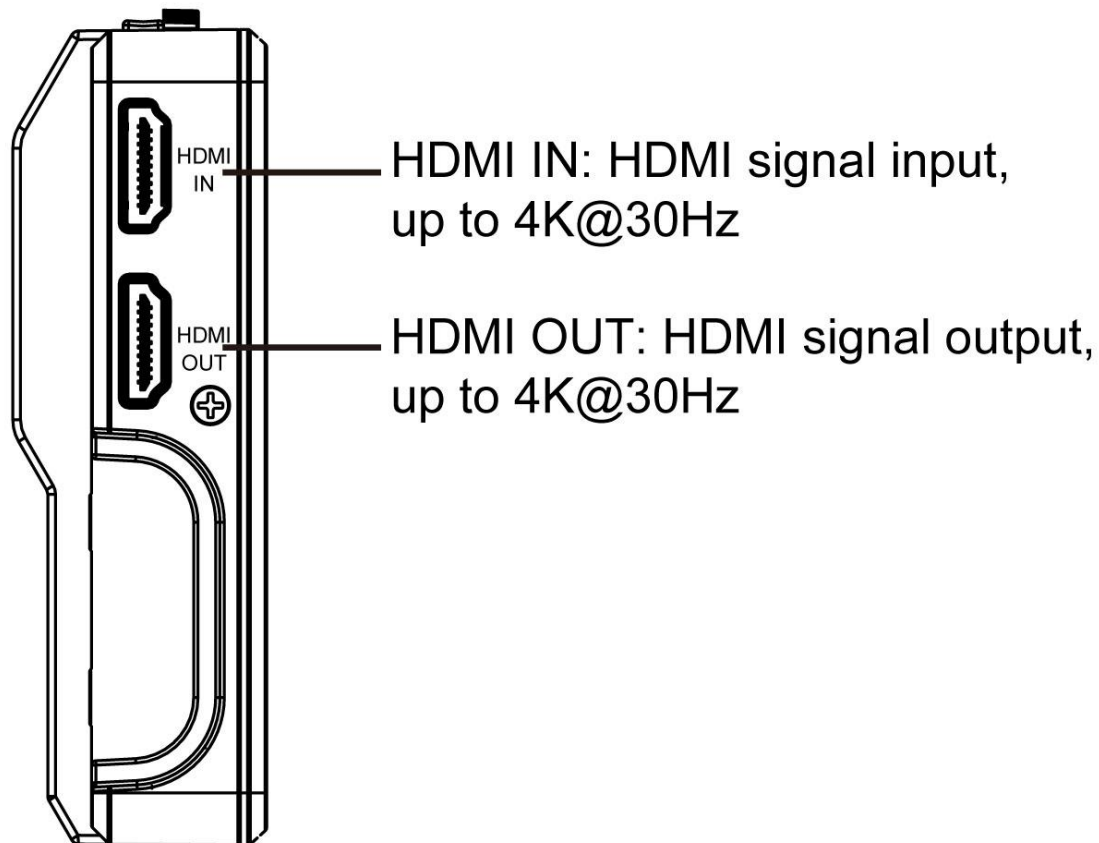
1.4 Power Supply Way

(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: 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.

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

 , Barrel (5.5mm outer, 2.1mm inner) at the bottom of the

monitor, DC 7~24V Input.

1.5 Installation Way

(1) Mount Points

There are (2) ¼-20 thread points (bottom & right side) can be easily
connected to the hot shoe mount, tripod fixed installation.
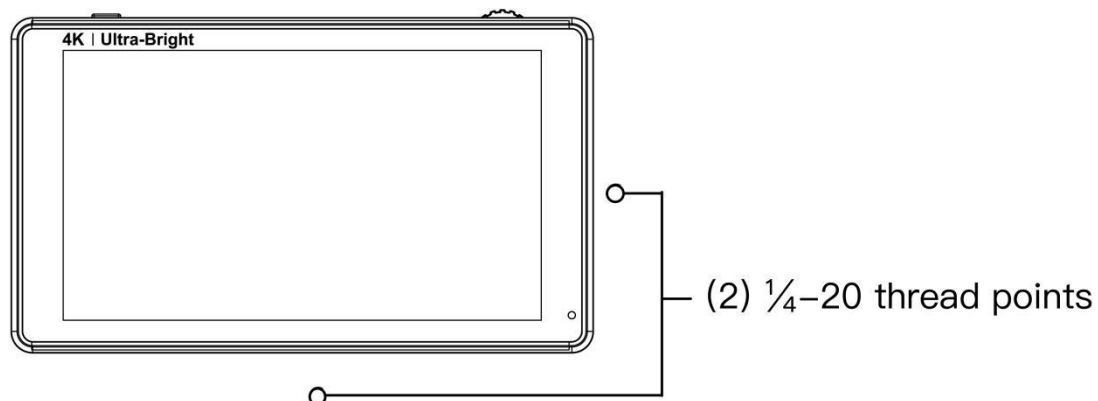
(2) Tilt Arm Mounting

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
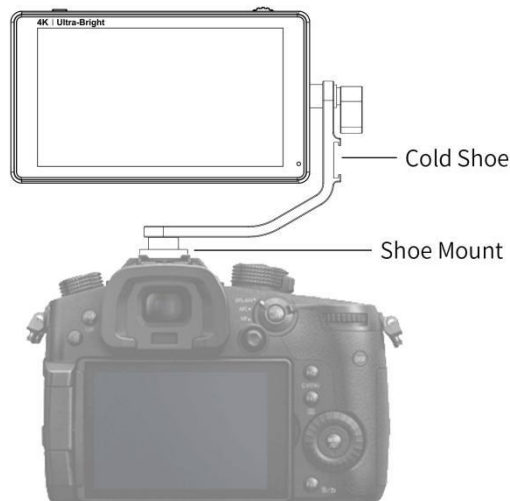
2. Menu Operation Instructions

After the monitor is properly connected to the power supply, the indicator light is on (red). Long press ⏻ / TOUCH button to turn on the monitor, the indicator light turns yellow. After the signal is connected, the indicator light turns green.

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

2.1 Touch screen menu operation (default touch screen is on)

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 to select or set with the "<" or ">" key of the option. To exit the menu, click the main menu ↩ menu or click the touch screen outside 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 shortcut menu function to open or set the function. Double-click the shortcut menu function, through the

menu box "<" or ">" button, you can customize the function settings. Click the touch screen outside the shortcut menu to exit the shortcut menu display.

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:
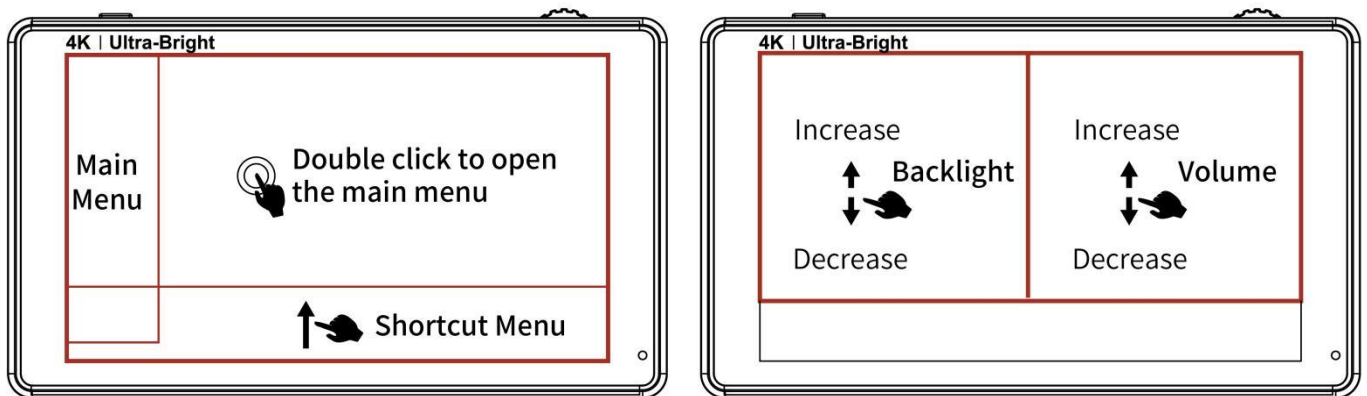
2.2 MENU Wheel Menu Operations

①．When the menu is not displayed, directly rotate the wheel to backlight or volume adjustment. The **wheel** option can be set to backlight or volume in the menu ⚙ .

②. Long press the MENU wheel to open the main menu (left side of the screen), rotate the wheel to select the secondary menu. After selection, press the wheel to enter the secondary menu, and then rotate the wheel to select the secondary menu function. After selection, press the wheel to enter the secondary menu function, rotate the wheel to adjust the parameters. After the adjustment, press the wheel to confirm and exit the

secondary menu function, rotate the wheel to enter the next adjustment.
When finished, long press the MENU wheel to exit the main menu.

③．Short press the MENU wheel to open the shortcut menu (below the screen),
rotate the wheel to select the shortcut menu option, press the wheel to
directly turn on/off the function, if you press the parameter selection,
repeat the above operation. When finished, long press the MENU wheel to
exit the shortcut menu.

3. Menu Function Instructions

All Waves	**OFF, ON** After turning on, waveform, vector, histogram and embedded audio will be shown.
Parade	**OFF, RGB, YUV, Y** 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 parade feature also checks the evenness of the lighting when lighting a chromakey or background.
Vector	**OFF, ON** Shows how saturated the image is and where the pixels in the image land on the color spectrum.
Y Histogram	**OFF, ON** A quantitative tool to check the picture brightness, display

	different color for different brightness
RGB Histogram	**OFF, ON** 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	**OFF, ON** The focus level and focus color items are displayed after the focus assist is turned on. It highlights the areas that are in focus so you are able to quickly focus the camera and not miss crucial shots.
Focus Level	1～10
Focus Color	yellow, red, green, blue, white
Audio Meter	**OFF, ON** Display an audio diagram after enabled to help you understand the audio status being used
Zebra	**OFF, ON** The zebra value item is displayed only after the zebra is turned on. 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.
Zebra Value	1%～100%
Monochrome	**OFF, gray, red, green, blue** When enabled, hue and saturation adjusted quickly and accurately
False Color	**OFF, type 1, type2** An image that depicts an object in colors that differ from

|	
	those a photograph (a true color image) would show.
Return ←	Back to the previous OSD menu

Nine Grid	**OFF, ON** The area of the picture is divided into nine equal grids
Safety Marker	OFF, 70%, 80%, 90%, 16:9, 16:10, 4:3, 5:4, 1:1, 1.91:1.1, 4:5, 9:16, 1.85:1, 2.35:1
Center Marker	**OFF, ON**
Marker Mat	**OFF, 16:9, 16:10, 4:3, 1.85:1, 2.35:1, 2.41:1, 1.9:1, 5:4, 1:1.9** The Marker Mat Alpha item is displayed after the Marker Mat is turned on.
Marker Mat Alpha	**0%, 25%, 50%, 75%**
Marker Color	yellow, red, green, blue, white, black
Return ←	Back to the previous OSD menu

Scan Mode	**Under Scan, Over Scan**
Video Aspect	auto, 16:9, 16:10, 4:3, 5:4, 1.85:1, 2.35:1, Stretch, user Under the **user**, you can customize the Video Width (100% ~ 200%), Video Height (100% ~ 200%)
Anamorphic Mode	OFF, 1.25x, 1.33x, 1.5x, 1.6x, 1.8x, 2.0x, 2.0x mag Allows you to use anamorphic lenses or adapters and

	see the image unsqueezed, even if your camera does not de-squeeze in camera.
Auto Mirror	**OFF, ON** After turning on, the image will automatically adjust upside down.
Flip H	**OFF, ON** When turning off the Auto Mirror, you can open or close Flip H
Flip V	**OFF, ON** When turning off the Auto Mirror, you can open or close Flip V
Zoom Times	**OFF, 100%～300%** It is HD signal in any part, an amplification for high quality close-up.
Freeze	OFF, ON
Pixel to Pixel	**OFF, ON** Enable the filmmaker to check the image from the 1:1 signal source without scaling.This feature is essential for capturing optimum detail.
Return **←**	Back to the previous OSD menu
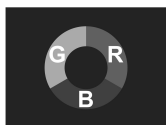
HDR	**OFF, HLG 2020, HLG 709, HLG P3** HDR can provide more dynamic range and the details of image, it is better to reflect the visual effects in the real environment.
Lut Switch	**OFF, ON**

	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	SLOG2, SLOG3, LOGC, VLOG
Lut Import (SD)	After copying the 3D LUT file to the SD card and inserting it into the SD card slot, you can click the "<" or ">" key in the Lut (SD) option, or rotate the wheel to import the 3D LUT file. **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.
Colortemp	**5600K, 6500K, 9300K, user** Under the "user" item, the red, green, and blue values of the image can be adjusted, made the colors of the image achieve your favorite
Backlight	**1～100** 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

Hue	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
Sharpness	0～100
	An index that reflects the clarity of image planes and the sharpness of image edges
Return ←	Back to the previous OSD menu

Wheel	**Backlight, Volume** After selecting the wheel option, you can click the "<" or ">" button in the wheel option, or rotate the wheel to select one of the shortcut keys to set it to the rotary wheel adjustment (when the menu is not displayed).
Language	English, 中文, **繁體中文,** 日本語, Deutsch, Français, Italiano, Español, 한국, Русский
Transparency	**OFF, low, middle, high** Adjust the transparency of the menu picture background on the screen
OSD Time	**5s, 10s, 15s, 20s, 25s, always** Select the display time of the menu on the screen
Volume	0～100 Adjusting the speaker volume
Mute	**OFF, ON**
Fan	**off, low, middle, high,auto**

	Under **"auto"**, the backlight is in the range of 81 to 90, the fan automatically turns on the mid-range; the backlight is in the range of 91 to 100, the fan automatically turns on the high-end; under other backlight brightness, the fan does not work.
Reset	After selecting the reset option, you can click the "<" or ">" key in the reset option or rotate the wheel to restore the factory settings.
Firmware Update	After copying the update file to the SD card and inserting it into the SD card slot, you can click the "<" or ">" key in the firmware update option or rotate the wheel to update. **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.
Return ←	Back to the previous OSD menu

	Exit the menu

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 50 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 --**Lut Import (SD)-- click** "<" or ">" 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 50.

5. Support Formats

HDMI Input/ Output Support Format	480i/480p/576i/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)
	3840x2160p (30/29.97/25/24/23.98)
	4096×2160p (24Hz)

6. Technical Parameters

Panel Size	6" touch screen
Resolution	1920 x 1080 pixels
Dot Pitch	0.069(L) x 0.069(W) (mm)
Aspect Ratio	16:9
Brightness	2600cd/m^2
Contrast	1000:1
Viewing Angle	80°/80°(L/R) 80°/80°(U/D)
Backlight	LED
Input	HDMI
Output	HDMI
Audio	3.5mm Stereo Headphone
Power Out	DC OUT 8.4V, Barrel (5.5mm outer, 2.1mm inner; Power DSLR or mirrorless camera)
Input Voltage	7～24V
Power Consumption	≦16W
Unit Size	162Lx93.2Hx29D (mm)
Unit Weight	300g
Mount Points	(2) 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 "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

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.