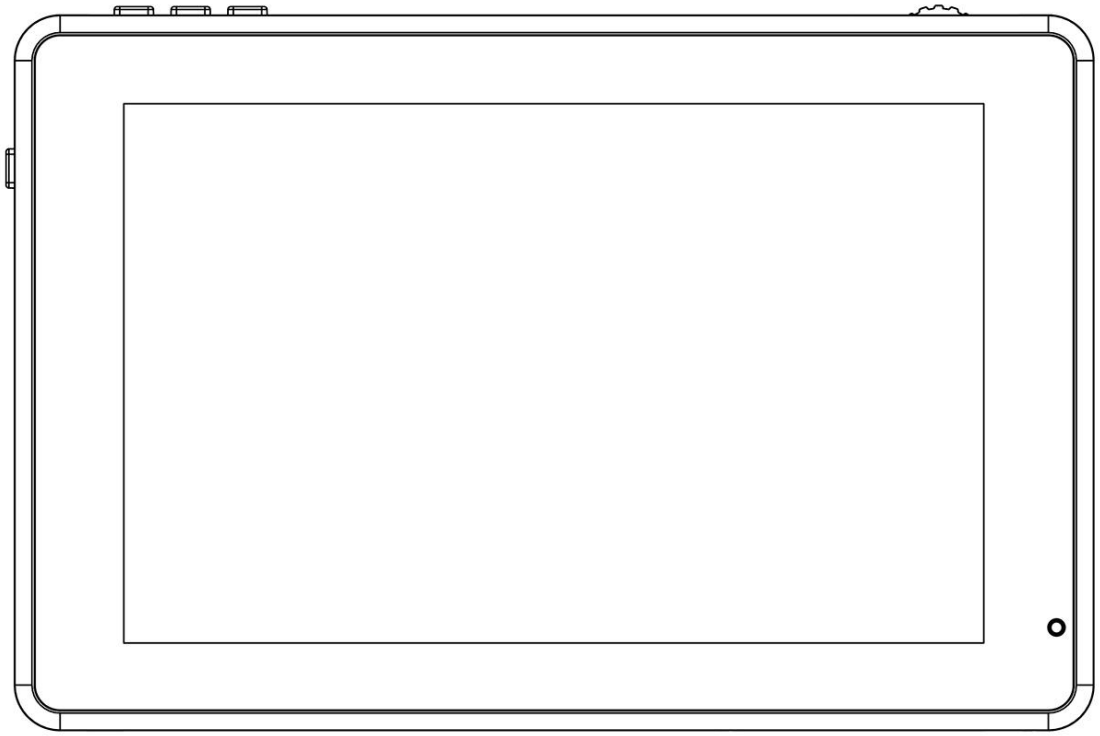
7″ 3D LUT Touchscreen Monitor

2200nits Daylight Viewable



User Manual

Product Overview

Thank you for using our 7 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 dual battery plates; 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
- Support 3D LUT Log to REC.709 and user 3D LUT upload
- 1920x1200 full HD IPS screen
- 2200nits Daylight Viewable (Light Sensor)
- 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
- 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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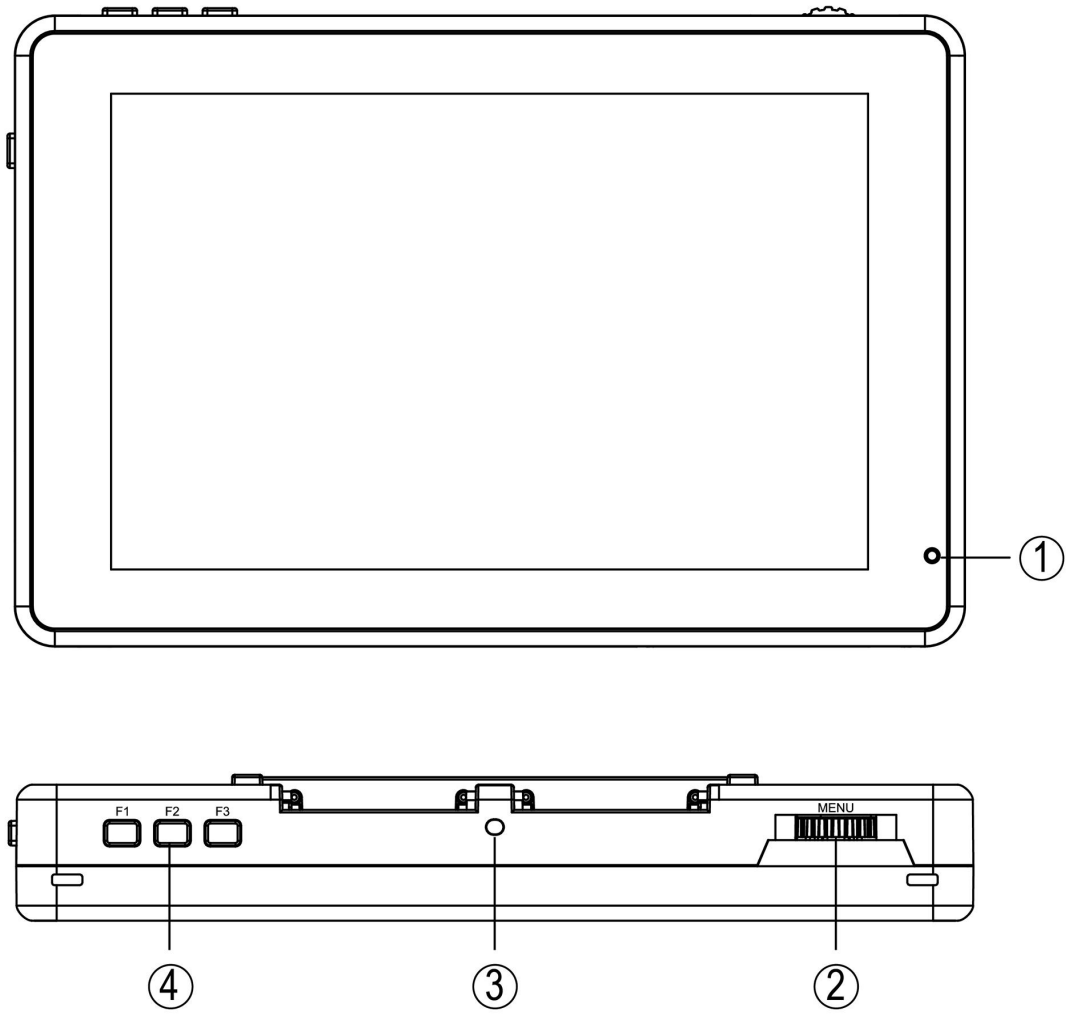
1. Product Description

1.1 Button Instruction



①**. Indicator Light:** After connecting the power, the indicator light is on (red). Long Press ⏻ / TOUCH button to turn on the monitor, it turns yellow. After the signal is connected, it turns green.

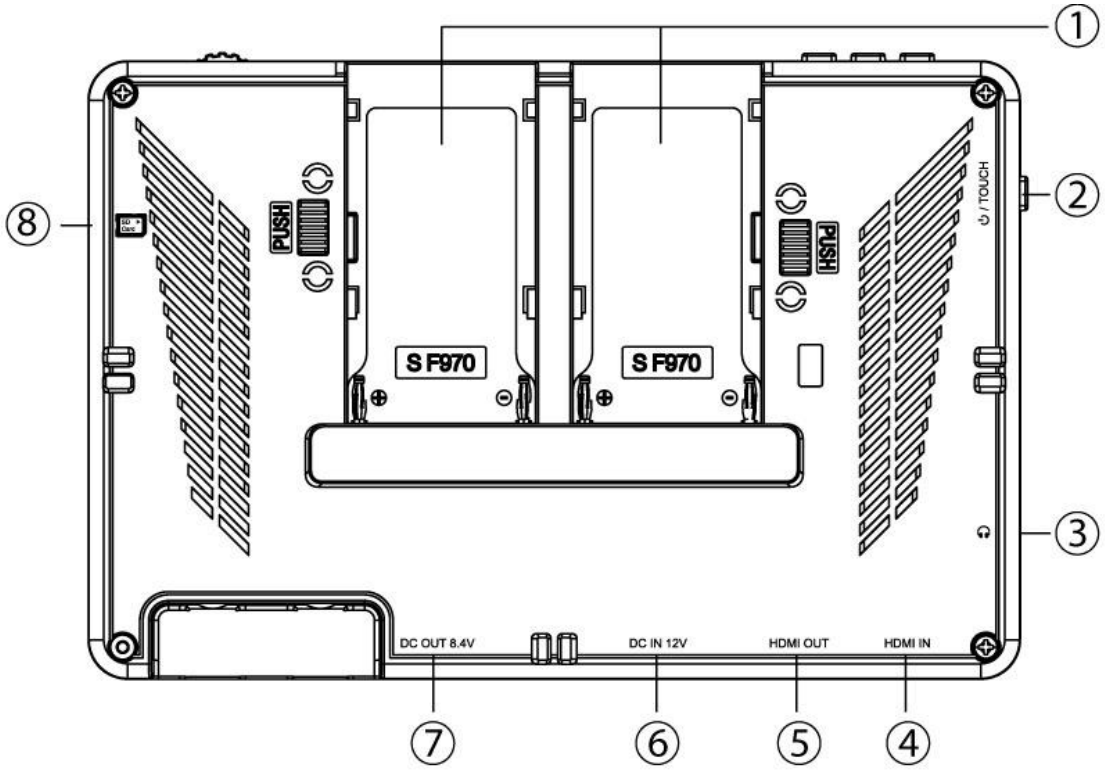
②**. MENU:** See details: **3.1 MENU Wheel Menu Operation in 3. Menu Operation Instruction.**

③**. Light Sensor:** The backlight mode under the icon 

is set to Auto, and the brightness of the backlight can be adjusted automatically by the light sensor.

④**. F1 ~ F3:** Custom function buttons

1.2 Port Instruction



①. Dual F970 Battery Plates

②. Power / Touch Function Button

Long press to turn on / off; short press to turn on / off the screen touch function.

③. 3.5mm Headphone Jack

④. HDMI IN

⑤. HDMI OUT

⑥. DC 12V Power Input

⑦. DC OUT 8.4V Power Output

Connect the optional dummy battery cable to power camera.

⑧. SD Card Slot

3DLUT upload via SD card and for firmware upgrade

1.3 Power Supply Way

(1) The rear cover of the monitor is equipped with dual 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.

●Battery switching instruction

- When the battery/batteries is/are placed in the battery slot(s), battery icon will appear on the upper right of the screen.
- White battery icon: working; Gray battery icon: not working.
- Manually switching: Double-tap the gray battery icon and it will be switched to a working state in about 3 seconds, then it will be turned white.
- Automatically switching: Automatically switch to another charged battery when one battery is exhausted.

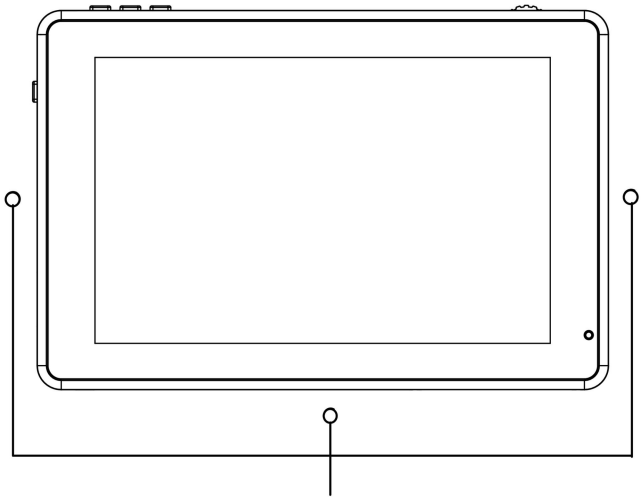
(2) **DC IN 12V:** DC power input, polarity as the input power  , Barrel (5.5mm outer, 2.1mm inner) at the bottom of the monitor, DC 7~24V Input.

(3) **DC OUT 8.4V:** 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 Mount Points

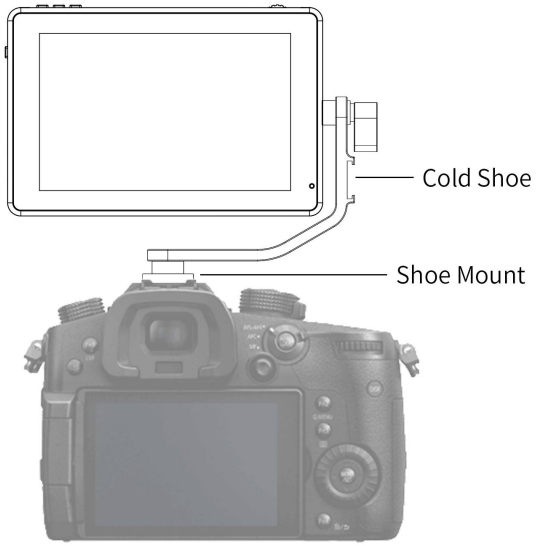
There are (3) ¼-20 thread points (bottom, right & left) can be easily connected to the hot shoe mount, tripod fixed installation.



(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 360° 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.



2. Menu Operation Instruction

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.

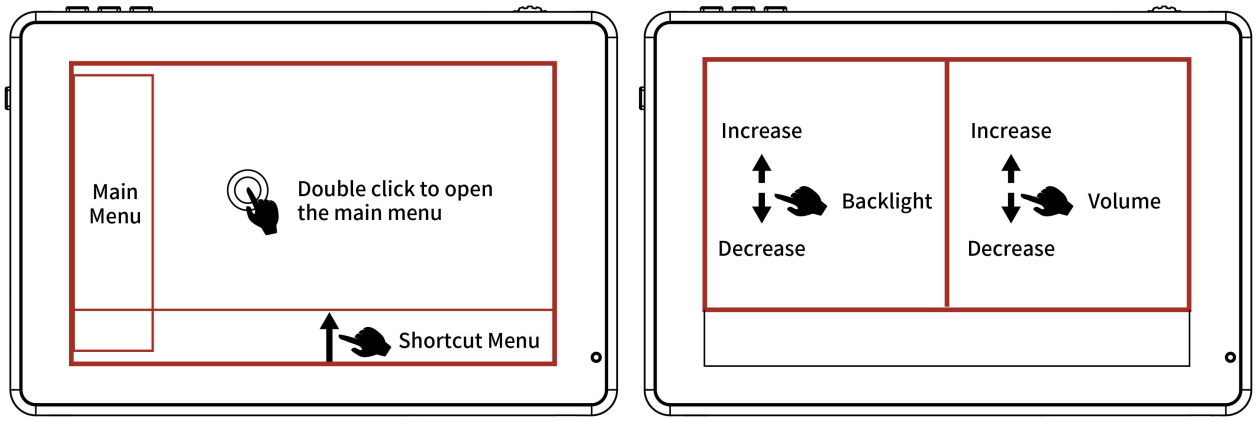
2.1 Touch Screen Menu Operation (turn on the screen touch function)

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 to select or set with the "<" or ">" key of the option. Exit the menu and press  key of the main menu or click the touch screen.

②. When the menu is not displayed, swipe up from the bottom of the screen to open the shortcut menu, and click on the corresponding menu box to open or set 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:



2.2 MENU Wheel Menu Operation

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 (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. 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. The shortcut menu will automatically exit after about 5 seconds without operation.

3. Menu Function Instruction

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

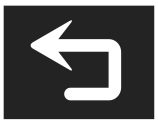
HDR	**OFF, HLG 2020, HLG 709, HLG P3** HDR can provide more dynamic range and the details of image, it is better to reflect the visual effects in the real environment.
Lut Switch	**OFF, ON** The Lut item is displayed after the Lut Switch is turned on. LUT is a table for quickly looking up and output 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

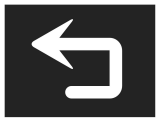
	it into the SD card slot, you can click the “<” or “>” key in the Lut (SD) option, or rotate the wheel to import the 3D LUT file. **Note:** the chip should be faced up when inserting the SD card, and press it after inserting to ensure that the SD card is fully inserted.
Colortemp	**5600K, 6500K, 9300K, 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).
F1~F3	Parade, Vector, All Waves, False Color, Monochrome, Safety Marker, Nine Grid, Center Marker, Marker Mat, Scan Mode, Video Aspect, Anamorphic Mode, Freeze, Pixel to Pixel, Zebra, Lut Switch, Mute, Focus Assist
Language	English，中文，**繁體中文，**日本語, Deutsch, Français, Italiano, Español，한국, Русский，Português
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**
Save Config(SD)	User custom menu saving After inserting SD card, click the “<” or “>” key to save the current configuration
Load Config(SD)	After inserting SD card, click the “<” or “>” key to load the saved configuration

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	7” touch screen
Resolution	1920 × 1200 pixels
Dot Pitch	0.07875 (H) x 0.07875 (W) (mm)
Aspect Ratio	16:10
Brightness	2200cd/m^2 (Light Sensor)
Contrast	1200:1
Viewing Angle	80°/80°(L/R) 80°/80°(U/D)

Backlight	LED
Input	HDMI
Output	HDMI, DC OUT 8.4V
Audio	3.5mm Stereo Headphone
Power Input Voltage	7～24V
Power Consumption	≦16W
Unit Size	190Lx126Hx27D (mm)
Unit Weight	460g
Mount Points	(3) ¼-20 thread points (left, 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

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