

7" Daylight Viewable Field Monitor F970 Install and Power Kit



User Manual

Product Overview

Thank you for using our 7 inch ultra bright touch screen monitor. This monitor has SDI (optional), 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.

A Sony F970 external install and power kit design is added to the back of the monitor. The external kit can be used to install and install the external equipment, like wireless transmitter, LED light, video converter and others which can be powered by Sony F970 battery. 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

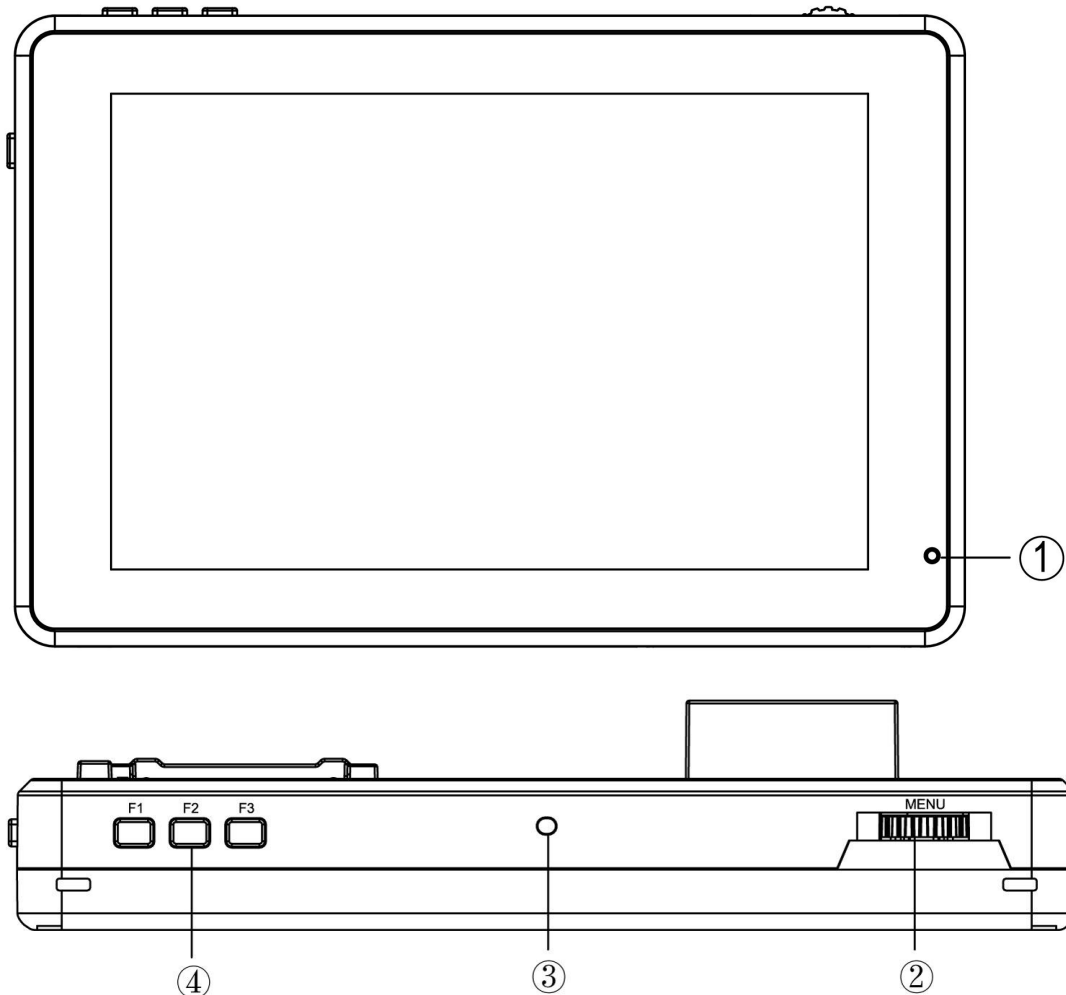
- Touch screen menu operation
- Support HDR monitoring
- Support 3D LUT Log to REC.709 and user 3D LUT upload
- 1920x1200 full HD IPS screen
- 2200nits Daylight Viewable (Light Sensor)
- Sony F970 external install and power kit design can be used to install and supply power to external equipment, easy to install and disassemble, simplify your photography equipment.
- All Waves display, Parada, Vector, RGB Histogram, Focus Assist, Monochrome etc. functions, can help you accurately exposure and focus every shot.
- Stereo Earphone output
- DC 8V power out to power your DSLR camera or mirrorless camera


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1. Product Description

1.1 Button Instruction



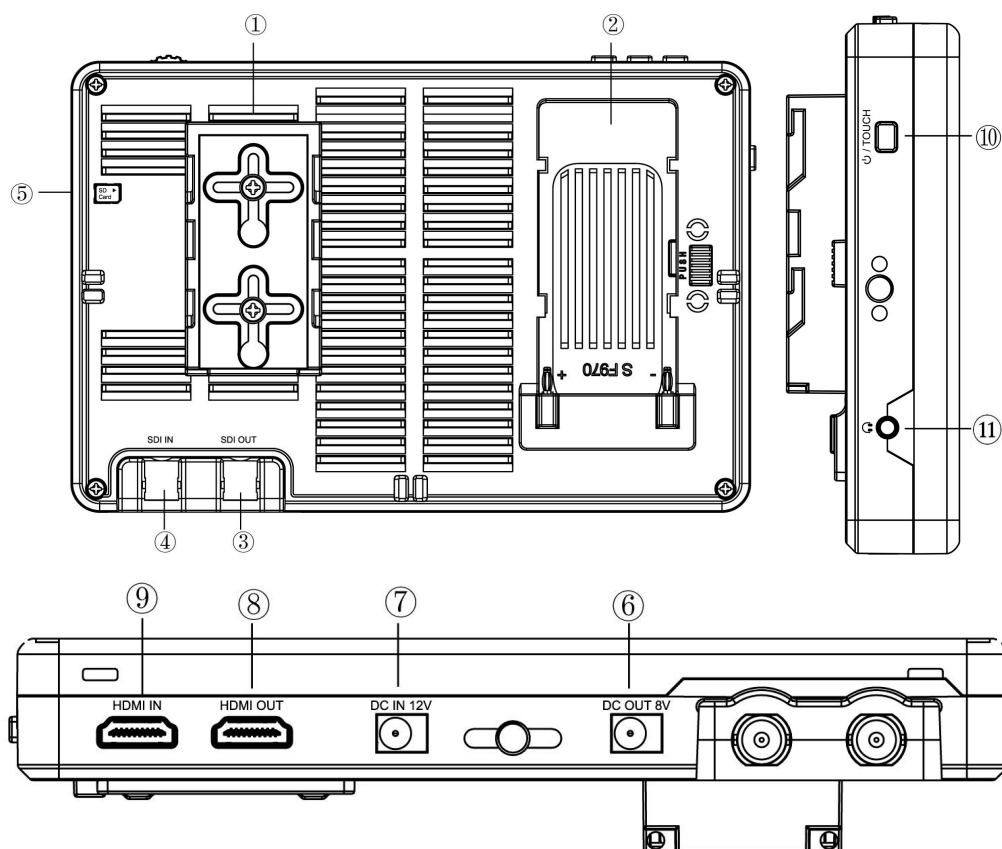
①. **Indicator Light:** After connecting the power, the indicator light is on (red). Long Press  / TOUCH button to turn on the monitor, it turns yellow. After the signal is connected, it turns green.

②. **MENU:** See details: **2.2 MENU Wheel Menu Operation in 2. 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. F970 Install and Power Kit

⑦. DC 12V Power Input

②. F970 Battery Plate

⑧. HDMI OUT

③. SDI OUT (Optional)

⑨. HDMI IN

④. SDI IN (Optional)

⑩. Power / Touch Function Button

⑤. SD Card Slot

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

3DLUT upload via SD card and for firmware upgrade

⑪. 3.5mm Headphone Jack

⑥. DC OUT 8V Power Output

Connect the optional dummy battery cable to power camera.

1.3 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

QM91D QM91 QM90D QM90 QM71D QM71 QM70D QM70

QM51D QM51 FM71 FM70 series

Remark: 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.

(3) **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 Sony F970 Install and Power Kit

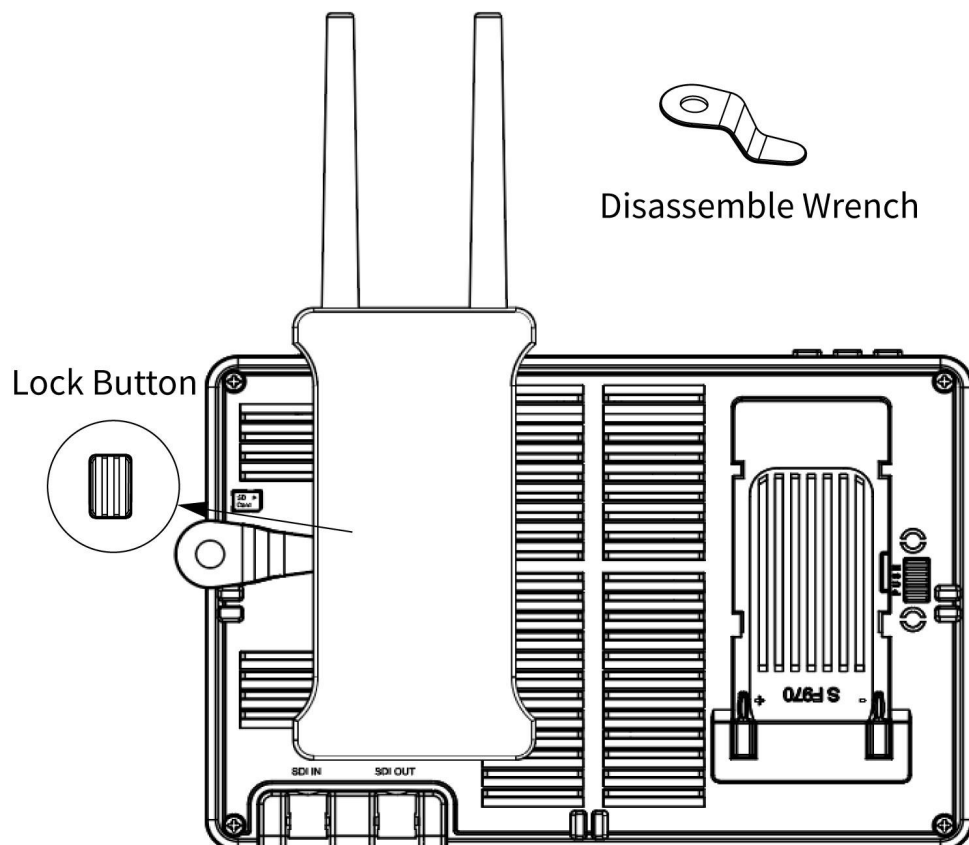
A Sony F970 external install and power kit design is added to the back of the monitor. The external kit can be used to install and install the external equipment, like wireless transmitter, LED light, video converter and others which can be powered by Sony F970 battery.

The kit has two cross grooves, you can adjust the position of the external device by loosening 2 screws up and down / left or right, or install the kit upside down. When you don't need the kit, you can loosen the screws and remove the kit.

Note: Before disassembling the kit, make sure that the monitor is turned off, and then remove the battery or power adapter.

(1) Just move the kit: Loosen 2 screws, and then adjust up / down / left / right.

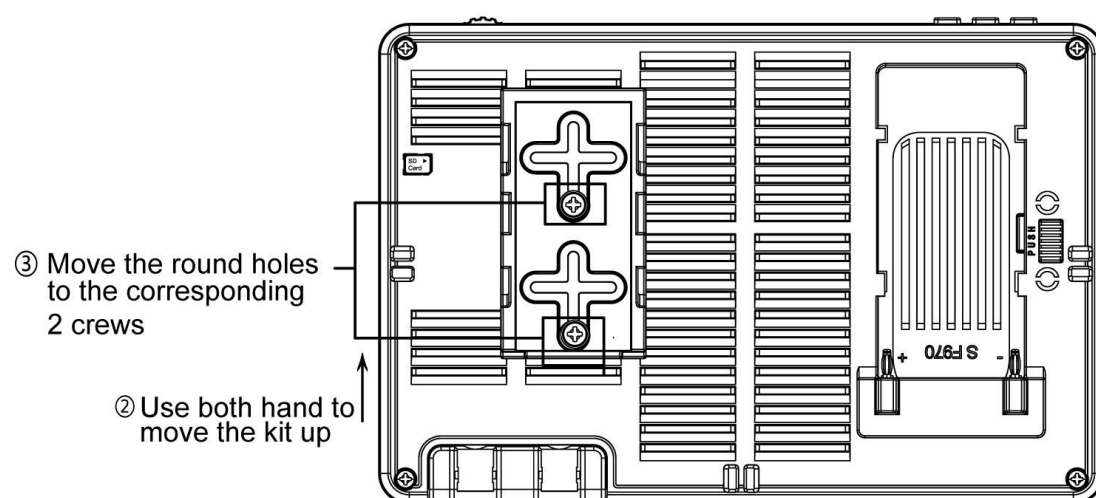
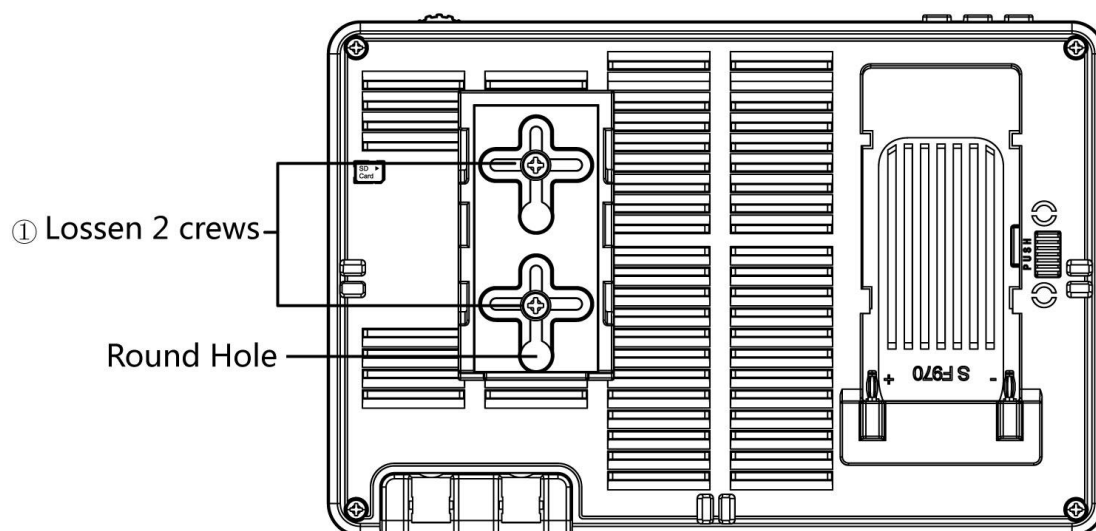
(2) Remove the external device: After the plug-in device is installed on the kit, if your plug-in device has a locking button, and it is more difficult to press it to remove it by hand, then you can use our assisting tool to disassemble.



(3) Steps to remove the kit:

- ①. Loosen the 2 screws.
- ②. Use both hands to move the kit up.
- ③. Move the round holes to the corresponding 2 screws.

(You can also install the kit upside down.)

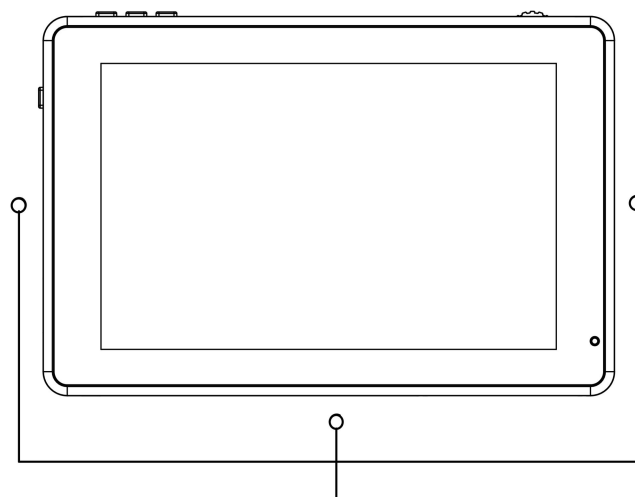


- ④. Then gently lift the kit upwards and carefully disassemble the 2P power cord.
- ⑤. Then remove the 2 screws.

(4) Install back to the kit: first screw the 2 screws back to the screw hole used to install the kit on the back of the monitor, install the 2P power cable to the cutout, then align the round hole of the kit with the screw, and then push the kit to the screw at the center of the kit cross, then tighten the screws.

1.5 Mount Points

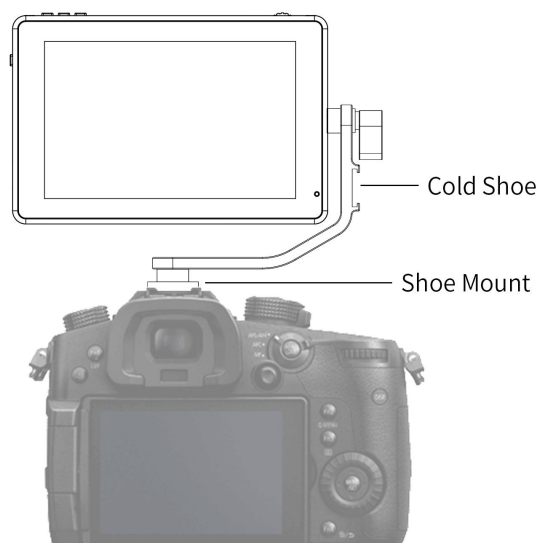
There are (3) 1/4"-20 thread points (bottom, right & left) can be easily connected to the hot shoe mount, tripod fixed installation.




(3) 1/4"-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)


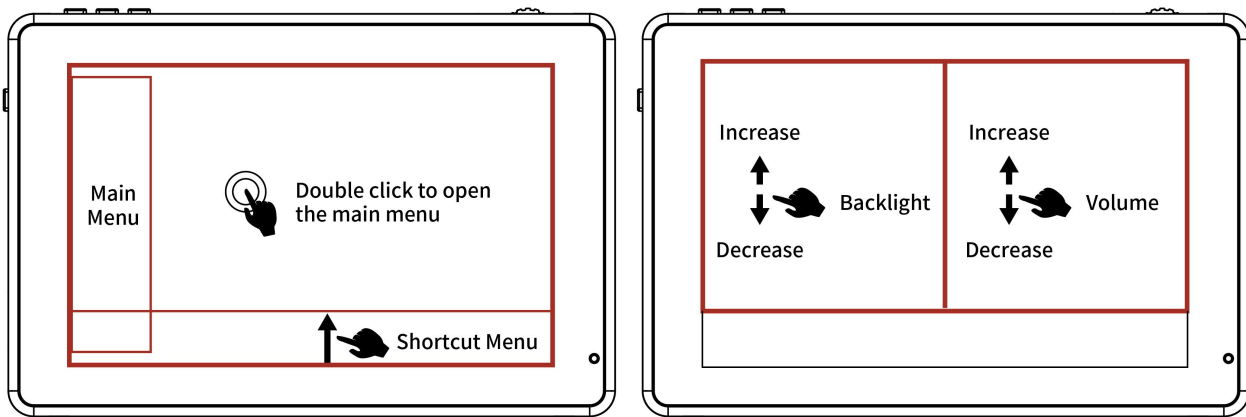

- ①. Double-click on the screen to open the main menu (show on the left side of the screen) and click on the corresponding menu to display the secondary menu. You can enter the corresponding function option to select or set with the "<" or ">" key of the option. Exit the menu and press  key of the main 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 brightness adjustment. The wheel option can be set to backlight or brightness 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



Focus Assist	OFF, ON After the Focus Assist is turned on, the Focus Level (1~10) and Focus Color (yellow, red, green, blue, white) can be adjusted.
Zebra	OFF, ON After the Zebra is turned on, the Zebra Value (1%~100%) can be adjusted.
Monochrome	OFF, gray, red, green, blue
False Color	OFF, type 1, type2
Return ←	Back to the previous OSD menu



Nine Grid	OFF, ON
Safety Marker	OFF, 70%, 80%, 90%, 16:9, 16:10, 4:3, 5:4, 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 After the Marker Mat is turned on, the Marker Mat Alpha (0%, 25%, 50%, 75%) can be adjusted.
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, 2.0x, 2.0x mag
Auto Mirror	OFF, ON After turning on, the image will automatically adjust upside down.
Flip H	OFF, ON
Flip V	OFF, ON
Zoom Times	OFF, 100%~300%
Freeze	OFF, ON
Pixel to Pixel	OFF, ON
Return ←	Back to the previous OSD menu



All Waves	OFF, ON
Parada	OFF, RGB, YUV, Y
Vector	OFF, ON
RGB Histogram	OFF, ON
Histogram	OFF, ON
Audio Meter	OFF, ON
Return ←	Back to the previous OSD menu



Lut Switch	OFF, ON After the LUT Switch is turned on, you can use the Lut (SLOG2, SLOG3, LOGC, VLOG) .
Lut Out	OFF, ON (With SDI interface version) Under the SDI signal, you can choose whether to loop out the LUT after the LUT function is turned on, and the default is off.
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.
HDR	OFF, HLG 2020, HLG 709, HLG P3
Colortemp	5600K, 6500K, 9300K, user Under the “user”, the red , green , and blue values of the image can be adjusted.
Backlight Mode	manual, auto Under "Manual", the Backlight (1 ~ 100) can be adjusted manually. Under "Auto", the brightness is automatically adjusted by the light sensor.
Brightness	0~100
Contrast	0~100
Saturation	0~100
Hue	0~100
Sharpness	0~100
Return ←	Back to the previous OSD menu



Wheel	Backlight, Volume, Zoom Times 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	Input, All Waves, Nine Grid, Safety Marker, Center Marker, Marker Mat, False Color, Lut Switch, Parade, Vector, RGB Histogram, Histogram, Audio Meter, Monochrome, Focus Assist, Zebra, Scan Mode, Video Aspect, Anamorphic Mode, Auto Mirror, Flip H, Flip V, Freeze, Pixel to Pixel, Mute, Lut Out
Language	中文, English , 日本語, Deutsch , Français , Italiano , Español , 한국, Русский
OSD Alpha	OFF, low, middle, high
OSD Time	5s, 10s, 15s, 20s, 25s, 30s, always
Volume	0~100
Mute	OFF, ON
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.
Input	HDMI, SDI (With SDI interface version)
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.
Return ←	Back to the previous OSD menu



Exit the menu

4. Support Formats

SDI Input Support Format (SDI version)	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) 2048x1080i (60/59.94/50) 2048x1080p (60/59.94/50/30/29.97/25/24/23.98)
SDI Output Support Format (SDI version)	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)
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) 4096x2160p (30/29.97/25/24/23.98)

5. 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	SDI (Optional), HDMI
Output	SDI (Optional), HDMI
Audio	3.5mm Stereo Headphone
Power Input	DC IN 12V
Power Out	DC OUT 8V
Power Consumption	≦ 18W
Unit Size	190Lx126Hx27D (mm)
Unit Weight	450g
Mount Points	(3) ¼-20 thread points (left, right, bottom)
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

Please confirm whether the volume control is turned on, and adjust 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.