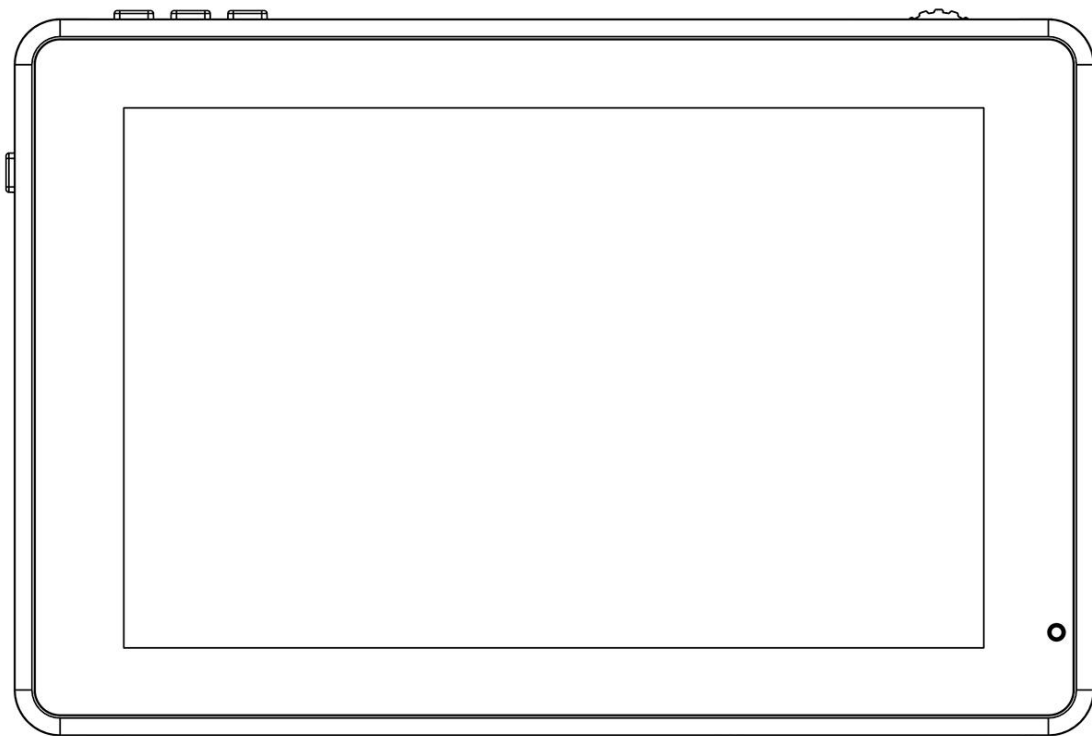


# **7" 3D LUT Touchscreen Monitor**

## **2200nits Daylight Viewable**



# **User Manual**

## **Product Overview**

Thank you for purchasing our Full HD LCD monitor, which adopts advanced integrated digital signal processing circuits and professional IPS LED panel, which makes it high brightness, low power consumption, stable performance, etc. This monitor has SDI (optional), HDMI input and output, auxiliary power output, touch screen menu operation and support user 3D LUT upload and other features. It has small size, simple operation, portable convenience and wide application range. 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**

- 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.

# Features

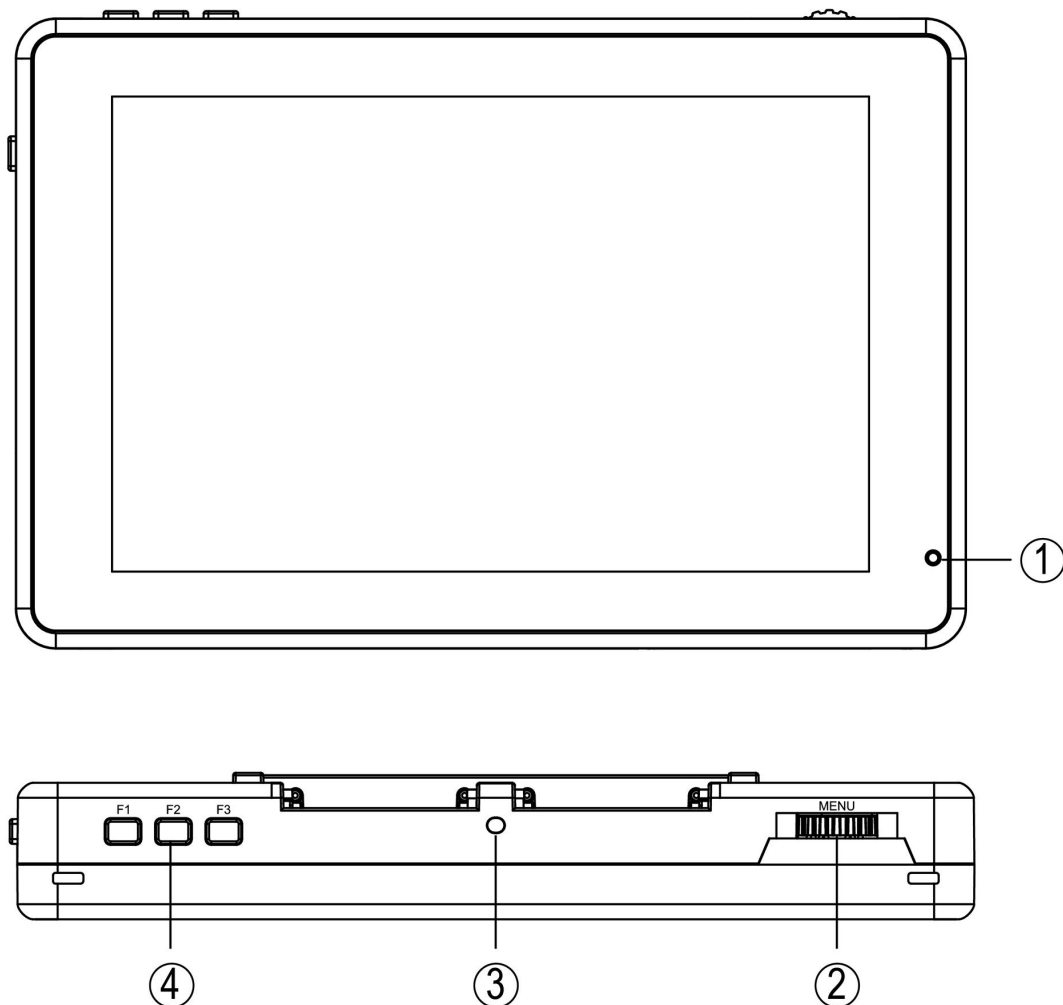
- Touch screen menu operation
- Support 3D LUT Log to REC.709 and user 3D LUT upload
- 1920x1080 full HD IPS screen
- 2200nits Daylight Viewable (Light Sensor)
- All Waves display, Parada, Vector, RGB Histogram functions
- Histogram is a quantitative tool to inspect the image brightness, to guide the 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



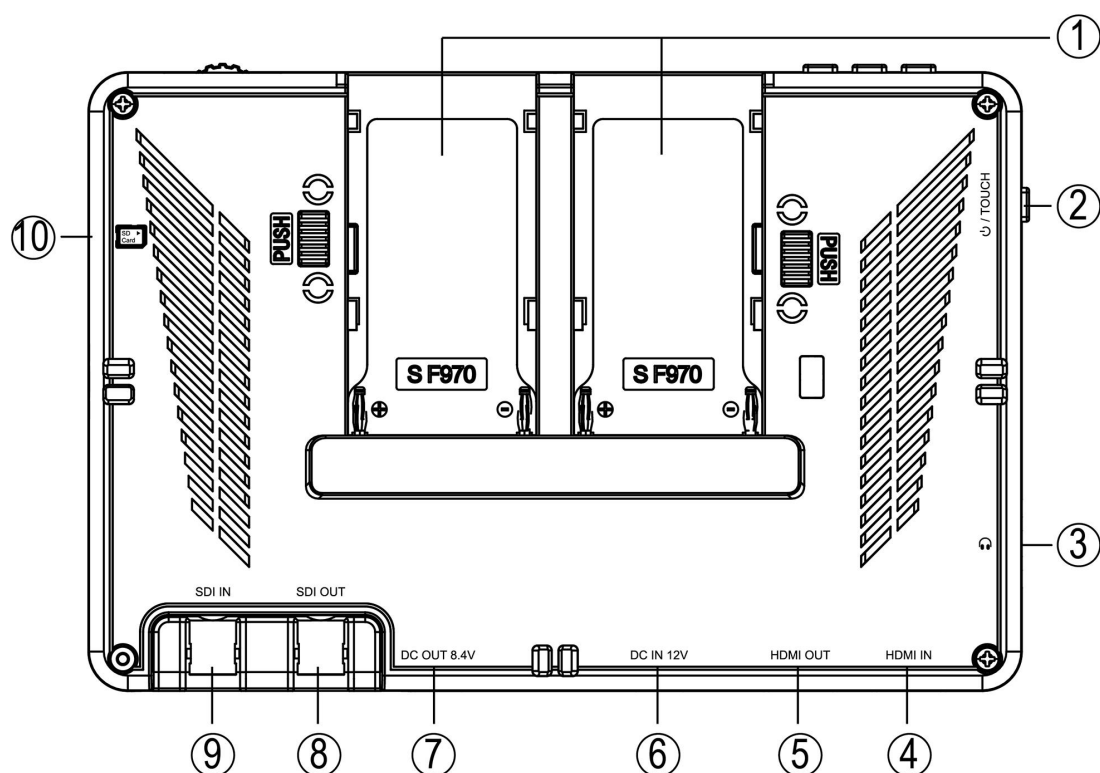
①. **Indicator Light:** After connecting the power, the indicator light is on (red). Long Press  / TOUCH button to turn on the monitor, it turns yellow. After the signal is connected, it turns green.

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. SDI OUT (Optional)

⑨. SDI IN (Optional)

⑩. 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


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.

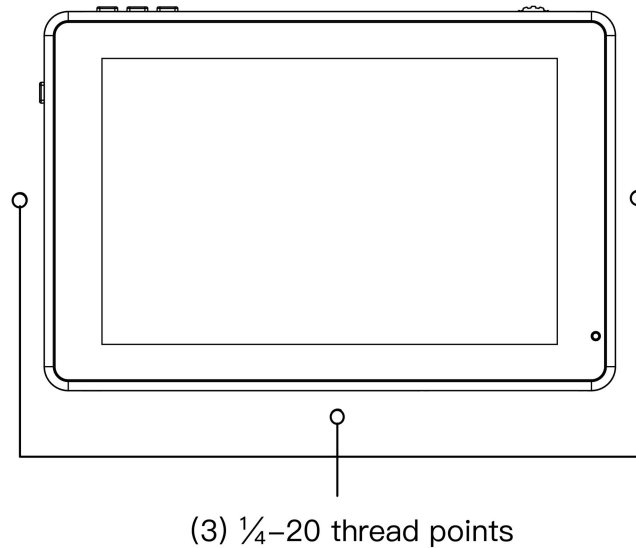
(3) **DC OUT 8.4V:** DC power output interface, polarity as the output power --+

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.



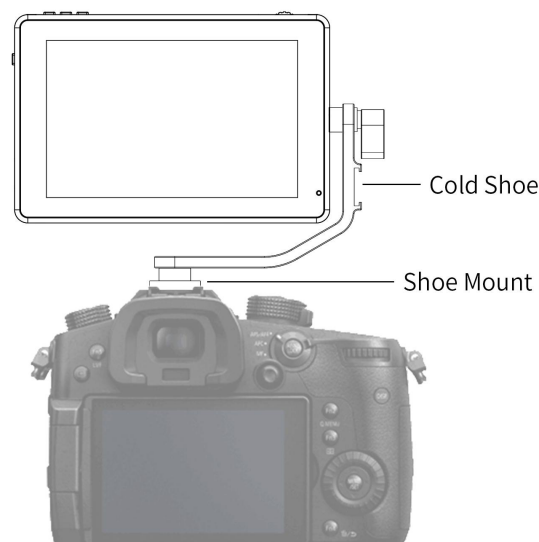
## 1.4 Mount Points

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




## 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.




## 2. Menu Operation Instruction

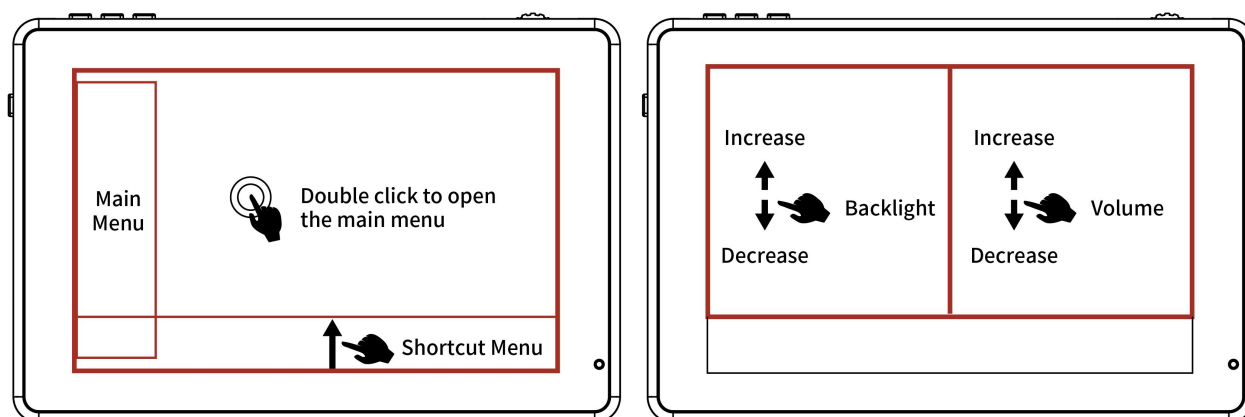
After the monitor is properly connected to the power supply, the indicator light is on (red). Long press  / TOUCH button to turn on the monitor, the indicator light turns yellow. After the signal is connected, the indicator light turns green.

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



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



<b>Nine Grid</b>	OFF, ON
<b>Safety Marker</b>	OFF, 70%, 80%, 90%, 16:9, 16:10, 4:3, 5:4, 1.85:1, 2.35:1
<b>Center Marker</b>	OFF, ON
<b>Marker Mat</b>	OFF, 16:9, 16:10, 4:3, 1.85:1, 2.35:1 After the Marker Mat is turned on, the <b>Marker Mat Alpha (0%, 25%, 50%, 75%)</b> can be adjusted.
<b>Marker Color</b>	yellow, red, green, blue, white, black
<b>Return</b> ←	Back to the previous OSD menu



<b>Scan Mode</b>	Under Scan, Over Scan
<b>Video Aspect</b>	auto, 16:9, 16:10, 4:3, 5:4, 1.85:1, 2.35:1, stretch, user Under the “ <b>user</b> ”, you can customize the <b>Video Width (100% ~ 200%), Video Height (100% ~ 200%)</b>
<b>Anamorphic Mode</b>	OFF, 1.25x, 1.33x, 1.5x, 2.0x, 2.0x mag
<b>Flip H</b>	OFF, ON
<b>Flip V</b>	OFF, ON
<b>Zoom Times</b>	OFF, 100% ~ 300%
<b>Freeze</b>	OFF, ON
<b>Pixel to Pixel</b>	OFF, ON
<b>Return</b> ←	Back to the previous OSD menu




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




<b>Lut Switch</b>	<p>OFF, ON</p> <p>The Lut item is displayed after the Lut Switch is turned on.</p> <p>After the Lut Switch is turned on, the <b>Lut (SLOG2, SLOG3, LOGC, VLOG)</b> can be adjusted.</p>
<b>Lut Import (SD)</b>	<p>After copying the 3D LUT file to the SD card and inserting it into the SD card slot, you can click the “&lt;” or “&gt;” key in the Lut (SD) option, or rotate the wheel to import the 3D LUT file.</p>
<b>Colortemp</b>	<p>5600K, 6500K, 9300K, user</p> <p>Under the “user”, the <b>red, green, and blue</b> values of the image can be adjusted.</p>
<b>Backlight Mode</b>	<p>manual, auto</p> <p>Under "Manual", the <b>Backlight (1 ~ 100)</b> can be adjusted manually.</p> <p>Under "Auto", the brightness is automatically adjusted by the light sensor.</p>
<b>Brightness</b>	0 ~ 100
<b>Contrast</b>	0 ~ 100
<b>Saturation</b>	0 ~ 100
<b>Hue</b>	0 ~ 100
<b>Sharpness</b>	0 ~ 100
<b>Return</b> ←	Back to the previous OSD menu



<b>Wheel</b>	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).
<b>F1</b>	Mute, 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, Flip H, Flip V, Freeze, Pixel to Pixel
<b>F2</b>	Input, 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, Flip H, Flip V, Freeze, Pixel to Pixel
<b>F3</b>	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, Flip H, Flip V, Freeze, Pixel to Pixel
<b>Language</b>	中文, English, 日本語, Deutsch, Français, Italiano, Español, 한국, Русский
<b>OSD Alpha</b>	OFF, low, middle, high

<b>OSD Time</b>	5s, 10s, 15s, 20s, 25s, 30s, always
<b>Volume</b>	0~100
<b>Mute</b>	OFF, ON
<b>Reset</b>	After selecting the reset option, you can click the “<” or “>” key in the reset option or rotate the wheel to restore the factory settings.
<b>Input</b>	HDMI, SDI
<b>Firmware Update</b>	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.
<b>Return</b> 	Back to the previous OSD menu



	Exit the menu
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## 4. Technical Parameters

<b>Panel Size</b>	7" touch screen
<b>Resolution</b>	1920 × 1200 pixels
<b>Dot Pitch</b>	0.07875 (H) × 0.07875 (W) (mm)
<b>Aspect Ratio</b>	16:10
<b>Brightness</b>	2200cd/m <sup>2</sup> (Light Sensor)
<b>Contrast</b>	1200:1
<b>Viewing Angle</b>	80°/80°(L/R) 80°/80°(U/D)
<b>Backlight</b>	LED
<b>Adjustable Backlight</b>	Manual, Auto
<b>Input</b>	SDI (Optional), HDMI
<b>Output</b>	SDI (Optional), HDMI
<b>Audio</b>	3.5mm Stereo Headphone, Speaker
<b>Power Out</b>	DC OUT 8.4V, Barrel (5.5mm outer, 2.1mm inner; Power DSLR or mirrorless camera)
<b>SDI Support Format</b>	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)
<b>HDMI Support Format</b>	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) 3840×2160p (30/29.97/25/24/23.98) 4096×2160p (24Hz)
<b>Power Input Voltage</b>	7~24V
<b>Power Consumption</b>	≦20W
<b>Unit Size</b>	190Lx126Hx27D (mm)
<b>Unit Weight</b>	460g
<b>Mount Points</b>	(3) ¼-20 thread points (left, right, bottom)
<b>Working Temperature</b>	-20℃~50℃
<b>Storage Temperature</b>	-30℃~60℃

## **5. Trouble Shooting**

### **5.1 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.

### **5.2 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.

### **5.3 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.