

5" Full HD On-camera Monitor

Support 4K HDMI Input/ Output



User Manual

Product Overview

Thank you for purchasing our Full HD color 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. It is equipped with HDMI input and output, which make it wide application, casing compact, simple operation, portable convenience and strong compatibility. Advanced features include Histogram, Embedded Audio, Focus Assist , False Colors, Exposure, Aspect Ratio, Image Flip, P2P, Center Marker, Safe Frames, Check Field, Image Freeze, Nine Grid, Zoom, Anamorphic etc. It is an ideal, portable and lightweight viewfinder and video monitor.

The monitor is equipped with an 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.
- Please do not cover the vents and holes on the enclosure and do not place the machine on a bed, sofa, and rug to ensure good ventilation. Otherwise it will lead to overheating and reduce the service life.
- 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, such as the radiator, the water heater, the stoves and the other heating products.
- 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.
- To maintain the LCD screen better, please notice the ways as below to avoid the scratch, the discoloration and the other 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.
- To protect the plastic cover better, please follow these ways as below to avoid the damages;
 1. Please do not use the chemical solutions to clean the cover.
 2. Please keep away from the volatile things.
 3. Please do not clean the case hard.
 4. Please simply wipe with a clean soft cloth and make sure no water on the cover.

Key Features

- IPS LCD panel, support 4K HDMI input and output
UHD 4K 3840×2160p (30/29.97/25/24/23.98Hz)
DCI 4K 4096×2160p (24Hz)

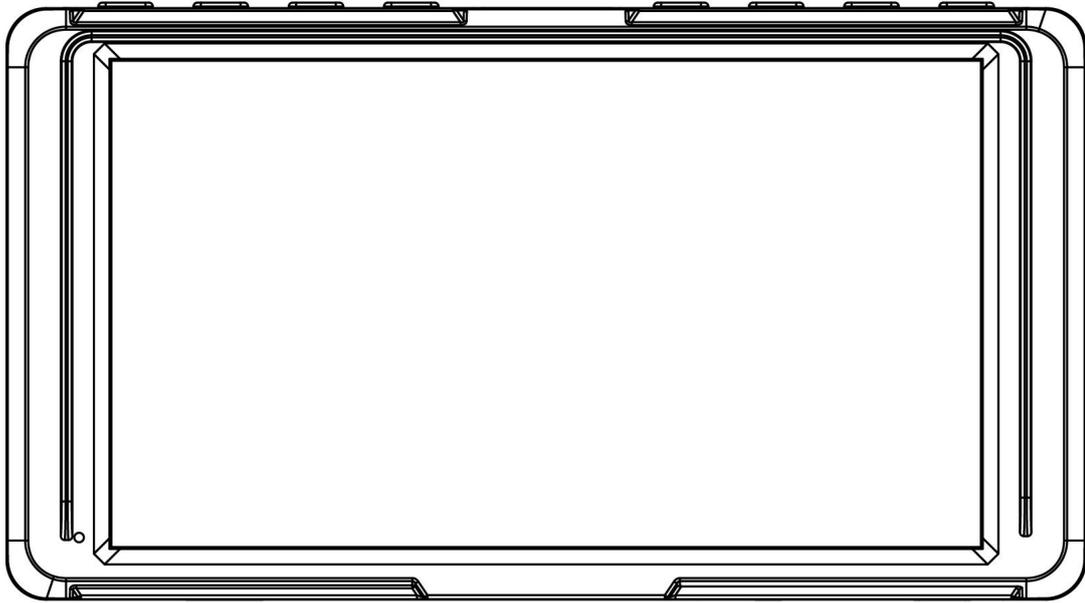
- Support 3D LUT Log to REC.709 and user 3D LUT upload
- With Waveform, Vector scope, RGB Histogram, Focus Assist, Monochrome etc. functions, can help you accurately exposure and focus every shot
- Earphone output
- DC8.4V power out to power your DSLR camera or mirrorless camera
- External sunshade, sunlight readable

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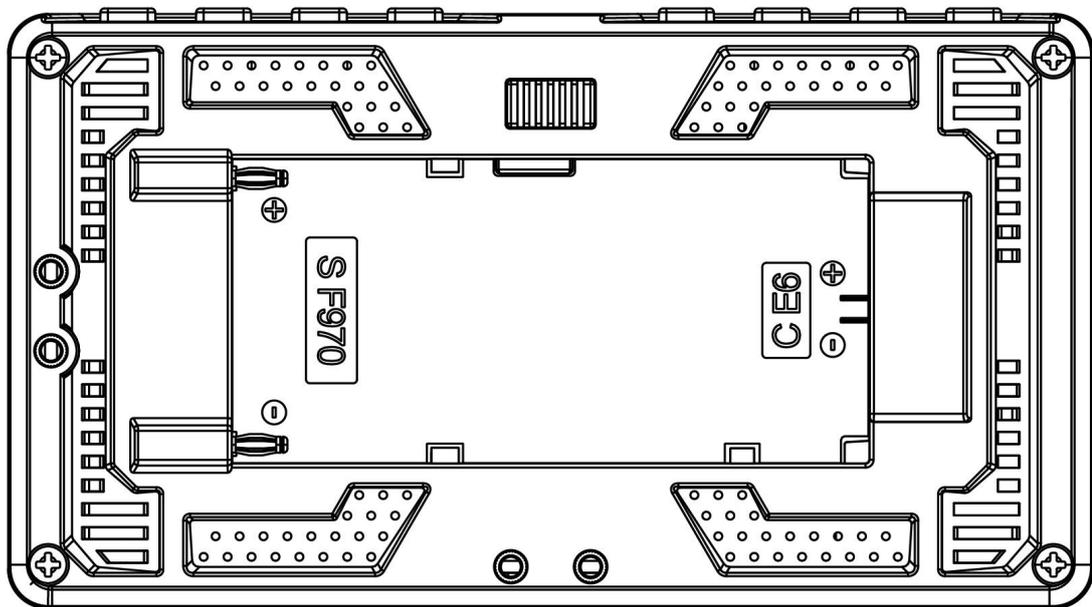
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1. Product Description

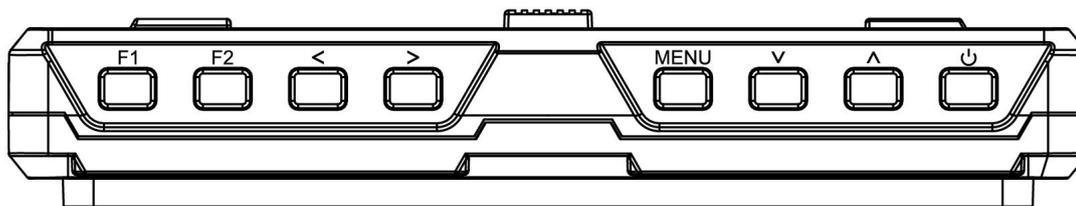
- Front Panel



- Back Panel



1.1 Button Instruction



Button	Function when OSD is not displayed	Function when OSD is displayed
F1	Custom button F1	/
F2	Custom button F2	/
<	Decrease the volume	Decrease or adjust value of selected parameter
>	Increase the volume	Increase or adjust value of selected parameter
MENU	Display OSD Main menu	Return to previous OSD menu
∨	/	Select next menu item
∧	/	Select previous menu item
⏻	Power On/Off button	

1.2 Port Instruction (bottom)



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

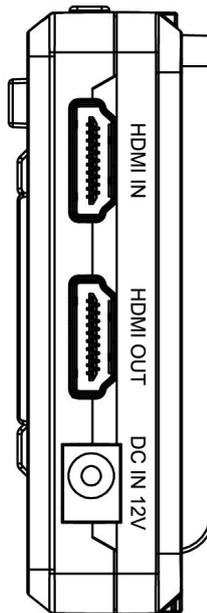
Barrel output for powering your camera with a separately

available DC coupler via adaptor (like NP-FW50 Sony & LP-E6 Canon&DMW-BLF19 Panasonic).

: 3.5mm Earphone port output

USB UPGRADE: Firmware USB upgrade port

1.3 Port Instruction (left)



HDMI IN: V1.4, HDMI signal input, up to 4K@30Hz.

HDMI OUT: V1.4, HDMI signal output, up to 4K@30Hz.

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

1.4 Power Supply Way

(1) The rear cover of the monitor is equipped with F970 and E6 dual-purpose battery plate, which is applicable to F970 series of batteries and E6 series of batteries.

- **Sony F970 battery plate for battery of Sony DV:**

Sony F970 F960 F950 F930 F770 F750 F730 F570 F550 F530

series.

- **LP-E6 battery plate for battery of Canon DV:**

Canon LP-E6

(2) Barrel (5.5mm outer, 2.1mm inner) at the left side of the monitor, DC 6~24V Input.

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.

1.5 Mount Points

(1) 1/4" Screw Lock Installation

The 1/4 screw lock can be installed on the monitor (bottom, right side).

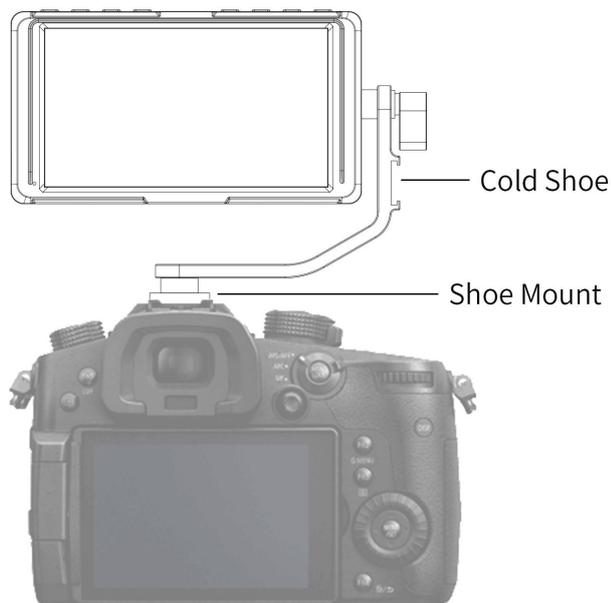


① Fasten the 1/4" screw lock with the monitor.

② Use 2 screws to fasten the 1/4" screw lock and the monitor.

(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.



1.6 Sunshade



① Velcro



② Sunshade Frame (Paste Velcro)



③ Sunshade



④ Sunshade Application

Attach the Velcro (hook side) ① to the outside of the sunshade frame of the monitor, open the sunshade ③, and align the Velcro (loop side) on the inside of the sunshade with the Velcro (hook side) ② on the monitor sunshade frame, and then complete the sunshade installation ④.

2. Menu Operation Instruction

After correctly connect to the power supply, the indicator will turn (Red) and turning on automatically. After turning on, the indicator will be Yellow, and then input HDMI signals, the indicator will turn Green from Yellow. Long press  to turn off.

Note: After turning off, and the power still connected, please long press  to turn on.

2.1 When the menu is not displayed, directly press the "<" or ">" button to adjust the volume or backlight. You can set the left and right buttons in the menu  **Left Right Key Set** to set the volume or backlight.

2.2 Press **"MENU"** button to enter OSD main menu, and press "V" or "Λ" button to go through the secondary menu function.

2.3 Then press “>” button to enter secondary menu (cursor move to secondary menu position).

Press “∨” or “∧” button to move cursor and select the items in the secondary menu.

2.4 After select the items in the secondary menu, press “<” or “>” button to adjust the item parameters.

2.5 Press “**MENU**” button to confirm the item adjustment and exit the menu.

3. Menu Function Instruction



All Waves	Off, On After turning on, waveform, vector, histogram and embedded audio will be shown.
Waveform	Off, RGB, Y, YUV 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.
Vector	Off, On Shows how saturated the image is and where the pixels in the image land on the color spectrum.
Histogram	Off, RGB1, Y, RGB2 RGB Histogram:It can display the graphic of color tone distribution, can intuitively display the exposure status of the

	<p>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>
Waves Trans.	Off, 25, 50, 75
Focus Assist	<p>Off, On</p> <p>By sharpening the edge of images to help photography for focusing operation.</p>
Peaking Color	<p>Red, Green, Blue</p> <p>Due to the image color is colorful when shooting in natural light, so the user may react to the edge of the single line not too sensitive, at this time to change the auxiliary focal edge line color will improve the sensitivity of the image contour. It is convenient during filming tracking in focus. The edge line color can be chosen according to the site situation to select red, green and blue.</p>
Embedded Audio	<p>Off, On</p> <p>The Audio Level Meters provide numerical indicators and headroom levels. The audio meter is green, and will turn yellow when exceeds -20dB, and turn red when exceeds -9dB.</p>
Over Exposure	Off, On
Exposure Level	<p>IRE10~IRE100</p> <p>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.</p>
Check Field	<p>Off, Mono, Red, Green, Blue</p> <p>To switch among Color, Mono, Red, Green, Blue</p> <p>When enabled, hue and saturation adjusted quickly and</p>

	accurately
False Colors	<p>Off, On</p> <p>It is the analysis of the whole image brightness and display False Color. It is convenient to guide using light when shooting and post production.</p>



Nine Grid	<p>Off, On</p> <p>The area of the picture can be divided into 9 equal grids.</p>
Safe Frames	<p>Off, 80%, 85%, 90%, 93%, 96%, 2.35:1</p> <p>To select the screen marker.</p>
Center Marker	<p>Off, On</p>
Ratio Marker	<p>Off, 4:3, 13:9, 14:9, 15:9, 16:9, 1.85:1, 2.35:1</p> <p>Image display ratio marker.</p>
Mark Color	<p>Red, Green, Blue, Black, White</p> <p>To select the above high contrast mark color according to different image.</p>
Mark Width	<p>1~7</p> <p>To select the above mark color display width.</p>
Modified Mark	<p>0~5</p> <p>Adjust the brightness of the image outside tag line to highlight the inside tag line of image.</p>



Scan Mode	Under Scan, Over Scan
Aspect Ratio	Auto., 4:3, 16:9, Full Screen, P2P Provides a wide variety of aspect ratio to match different camera anamorphic lenses.
Anamorphic	Off, 1.3X, 2.0X, 2.0X MAG, User Under the User , the Anamorphic nX can be customized. Allows you to use anamorphic lenses or adapters and see the image unsqueezed, even if your camera does not de-squeeze in camera.
Anamorphic nX	1.20X~2.00X
Image Flip	Off, H Flip, V Flip, H_V Flip
OSD Flip	Off, On
Zoom Mode	Off, Mode1, Mode2 The Zoom All can be customized.
Zoom All	0~500 To adjust the image to zoom in or zoom out.
L/R Zoom	0~500 To adjust the proportion of the image Left and Right to Zoom In or Zoom Out.
U/D Zoom	0~500 To adjust the proportion of the image Up and Down to Zoom In or Zoom Out.
Nine Grid Zoom	Off, On Open the Nine Grid function in the  to divide the image into nine grid, then turn on the Nine Grid Zoom function, select one of the screens by pressing the "<" or ">" key, and then press the "V" or "^" key zoom in to full screen. Press the "V" or "^" key to exit the local zoom function. (To achieve this function, you need to turn on the Nine Grid function first, and it can only be operated by keys.)

Zoom	Off, 4X, 9X, 16X It is HD signal in any part, an amplification for high quality close-up.
Image Freeze	Off, On



Lut Switch	OFF, ON After the LUT Switch is turned on, you can use the Lut (SLOG2, SLOG3, LOGC, VLOG) . 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 Table	Show the 4 built-in Lut and the custom load Lut (up to 32)
Lut Import (USB)	After copying the 3D LUT file to the USB flash drive, then connecting USB UPGRADE port via USB adapter cable (USB-female to mini-USB), press the “<” or “>” button to import the 3D LUT file.
Color Temp.	5600, 6500, 9300, User Under the User , the red, green and blue of the image can be adjusted.
Red	0~255
Green	0~255
Blue	0~255
Backlight	0~100 Adjust the screen brightness

Pic. Mode	Standard, Mild, User, Dynamic Under the User , you can adjust the image Brightness, Contrast, Saturation, and Sharpness.
Brightness	0~100 Adjust the image brightness
Contrast	10~100 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
Sharpness	0~100
Tint	0~100



Left Right Key Set	Volume, Backlight You can set the Left Right Key Set as shortcut keys for volume or backlight adjustment. After setting, when the menu is not displayed, you can directly press the "<" or ">" key for quick adjustment.
Language	English, 简体中文, Español, Português, Français, Nederlands, Deutsch, 日本語, 繁體中文, 한국어로, русский язык
OSD Trans.	Off, Low, Middle, High Adjust the transparency of the menu picture background on the

	screen
OSD Time	Off, 10Sec, 20Sec, 30Sec Select the display time of the menu on the screen
No Signal	Blue Screen, Red Screen, Green Screen, Gray Screen, Black Screen, White Screen Can be change the background color of screen when no signal
Volume	0~100 Adjusting the speaker volume
USB Upgrade	Copy the file to the USB flash drive, then connecting USB UPGRADE port via USB adapter cable, press the ">" button to confirm the upgrade. After the upgrade is complete, the monitor will automatically restart.
Reset	Press ">" button to confirm, back to original setting.



F1, F2	<p>All waves, Center Marker, Safe Frames, Check Field, Focus Assist, Aspect Ratio, Image Flip, Image Freeze, Histogram, False Colors, Over Exposure, Embedded Audio, Nine Grid, Zoom, Anamorphic, Waveform, Vector,</p> <p>To set the 2 shortcut custom button F1, F2 on the panel. e.g. When in OSD menu "F", press ">" button to select F1, press "<" or ">" button to pop-up function items and press "<" or ">" button to select one of them, such as "Focus Assist", and press "MENU" button to confirm. So when you exit OSD menu, you could</p>
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	press F1 directly on the front of panel to turn on “Focus Assist” function.
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Same setting for F2

4. How to Load LUT

Prepare tool: USB flash driver, mini USB to USB cable



4.1 USB flash driver format FAT32

4.2 Max Files Limit Maximum 32 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 16,17,32,33,64,65

Remark: LUT file name must be English or Arabic numerals

4.4 Steps for loading

4.4.1 Make sure USB flash driver insert to the mini USB to USB can and connect with the USB interface of monitor.

4.4.2 Enter main menu  --LUT--**Lut Import** -- press the “<” or “>” button to import the 3D LUT file , 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** -- press the “<” or “>” button **Confirm**, the imported LUTs will be clear up.

5. Technical Parameters

Panel Size	5.0 inch IPS
Resolution	1920 x 1080 pixels
Pixel Density	440 PPI
Dot Pitch	0.0571 (H) x 0.019 (W) mm
Aspect Ratio	16:9
Brightness	400cd/m ²
Contrast	1000:1
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

HDMI Support Format	480i /480p /576i /576p 720p(60/59.94/50/30/29/25/24/23.98) 1080i(60/59.94/50) 1080p(60/59.94/50/30/29.97/25/24/24sF/23.98/23.98sF) 4K UHD 3840×2160p (30/29.97/25/24/23.98 Hz) DCI 4K 4096×2160p (24Hz)
Power Input Voltage	DC: 6~24V
Power Consumption	≦8W
Unit Size	136Lx75.7Hx25.2D (mm)
Unit Weight	142.5g
Working Temperature	- 20℃ ~ 50℃
Storage Temperature	- 30℃ ~ 65℃

6. Trouble Shooting

6.1 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.

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

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.