

4.5" HD On-camera Monitor

Support 4K HDMI Input / Output



User Manual

Product Overview

Thank you for purchasing our HD color LCD monitor, which adopts advanced integrated digital signal processing circuits and professional LED panel, making 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 Focus Assist, Aspect Ratio, Image Flip, Center Marker, Safe Frames, Check Field, Image Freeze, etc. It is an ideal, portable and lightweight viewfinder and video monitor.

The monitor is equipped with an external 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. In order not to affect the normal work of the monitor, please use qualified power adapter or external power supply.
2. Please do NOT expose this product directly in the sunlight, heat, and humid conditions.
3. Though our monitor has shock protection inside, users should also avoid violent collisions to it.
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. To avoid the damage of the product, please do not take apart or

repair the unit by yourself without adjustable component in the unit.

Features

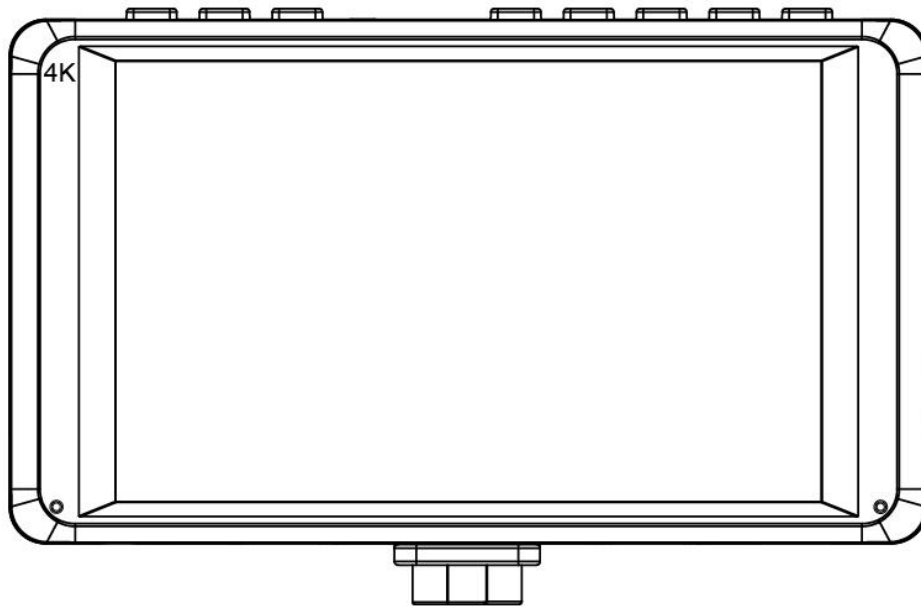
- ◆ Support 4K HDMI Input / Output
- ◆ Focus Assist.
- ◆ Check Field (Red, Green, Blue, Mono)
- ◆ Histogram
- ◆ Anamorphic
- ◆ Center Marker
- ◆ Safe Frames (96%, 93%, 90%, 85%, 80%, 2.35:1)
- ◆ Image Flip (H_V Flip, H Flip, V Flip)
- ◆ Image Freeze
- ◆ 2 custom shortcut buttons, convenient for user operate
- ◆ Earphone output
- ◆ Replaceable multi-functional battery plates that could support different model batteries of multiple brands (F970, E6, D28S, U60)
- ◆ Multiple position installation ways: more convenient to combine with hot shoe mount, magic arm, installed in your best visual position, without considering the camera placement, more leisurely for video shooting.

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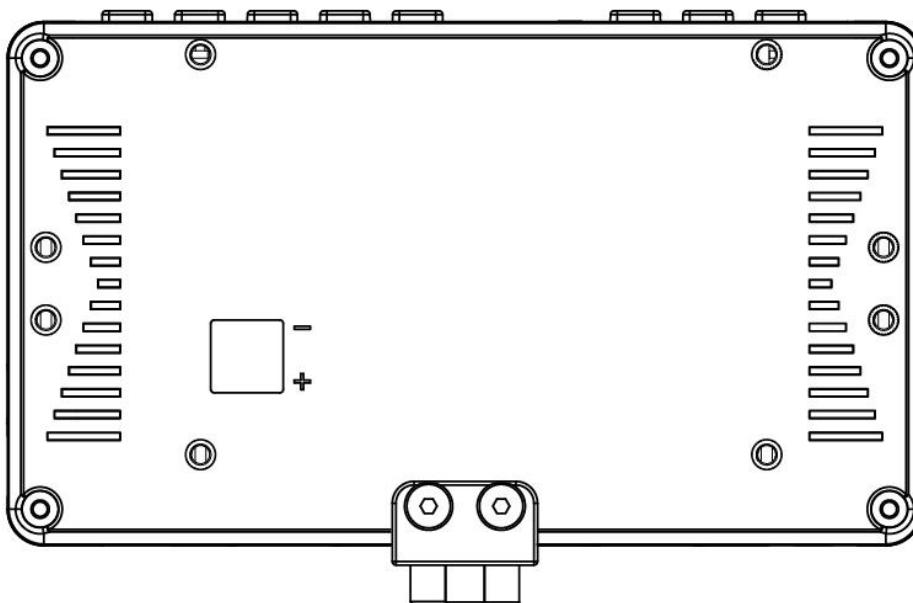
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1. Product Description

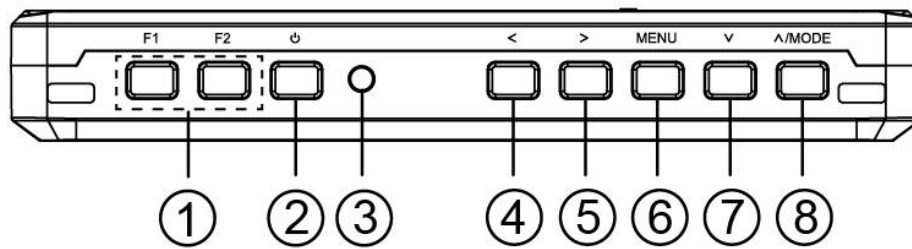
● Front



● Rear

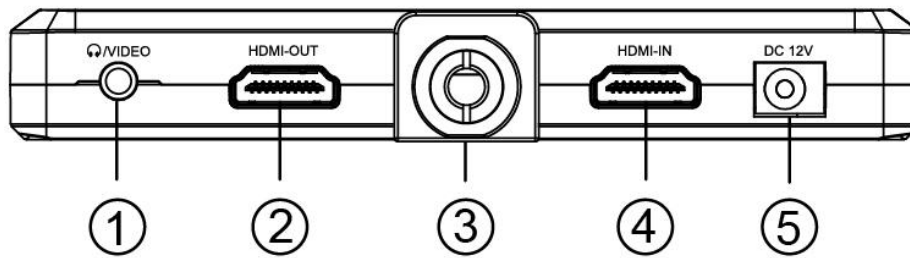


1.1 Top Button Instruction



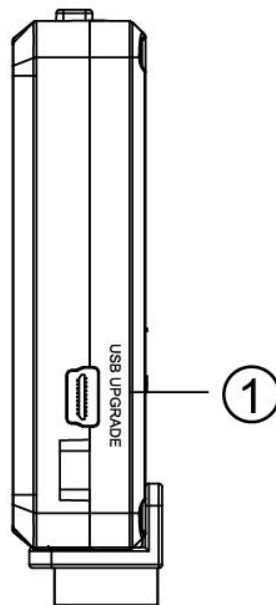
- ①. **F1/F2:** Custom shortcut button
- ②. **⏻:** Power On/Off button
- ③. LED indicator
- ④. **<:** Directly press it is to decrease the volume.
When enter into main menu, it is for secondary menu item selection. In the secondary menu, it is the adjustment and selection for the set item.
- ⑤. **>:** Directly press it is to increase the volume.
When enter into main menu, it is for secondary menu Item selection. In the secondary menu, it is the adjustment and selection for the set item.
- ⑥. **MENU:** Menu button, to enter into menu and menu items confirm, exit.
- ⑦. **∨:** When enter into menu; it is for the down item selection
- ⑧. **^/MODE:** Under no menu display state, press it directly is for the input signal channel selection.
When enter into menu; it is for the up item selection.

1.2 Bottom Interface Instruction



- ①. **VIDEO**: The headphone output port is compatible with the VIDEO input port
- ②. **HDMI- OUT**: High definition multimedia video signal output
- ③. Install 1/4" screw lock
- ④. **HDMI-IN**: High definition multimedia video signal input.
- ⑤. **DC12V**: DC power input interface

1.3 Right Side Interface Instruction



- ①. USB data upgrade port

1.4 Battery Plate

We assemble the suitable battery plate for the customers according to the different requirements of the batteries. If the customers have no requirement on the battery, the factory assembles F970 battery plate by default.



Battery Plates in different models as below:



F970



LP-E6



D28S



U60

- **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

- **D28S battery plate for battery of Panasonic DV:**

Panasonic D55 554S D54SE D40 D35 D33 D32 D28 D25 D22 series

- **U60 battery plate for battery of Sony DV:**

SONY BP-U30/U60/U90, domestic U62/U65/U66/U95/U98 series.

- **Four types of batteries corresponding to the upper battery plates.**



F970



LP-E6



D28S



U60

Remark: It is recommended to use standard original 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.

CAUTION

**RISK OF EXPLOSION IF BATTERY IS REPLACE
BY AN INCORRECT TYPE
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS**

1.5 Sunshade



① Sunshade



② Sunshade Frame





③ Complete Shape



④ Sunshade Application

First to open the sunshade ①, and match the sticker on the sunshade inside to the marked part of the sunshade frame, press the side of the sunshade frame, ③ smooth and press 3 sides on the sunshade, ④ to lock the sunshade with the monitor tight.

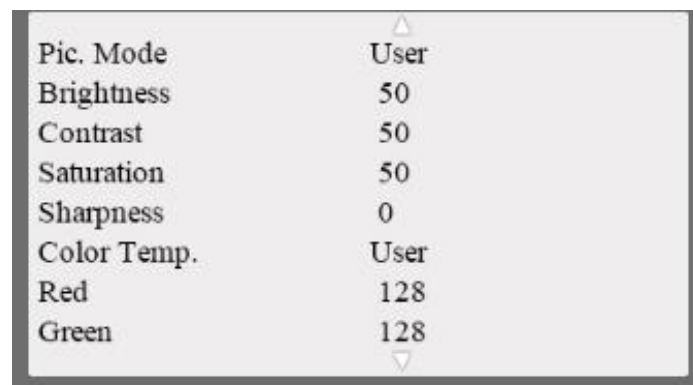
2. Menu Operation Instruction

After correctly connect to the power supply, press  to turn on monitor power, the monitor turn to working state. Press  /MODE to select signal input channel.

2.1 Press “**MENU**” button to enter OSD main menu, and press “<” or “>” button to select the secondary menu.



2.2 Then press “V” button to enter secondary menu (cursor move to secondary menu position).



Pic. Mode	User
Brightness	50
Contrast	50
Saturation	50
Sharpness	0
Color Temp.	User
Red	128
Green	128

Press “V” button to enter into secondary menu, use “V” or “^” button to move cursor to go through or select the items in the secondary menu.

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

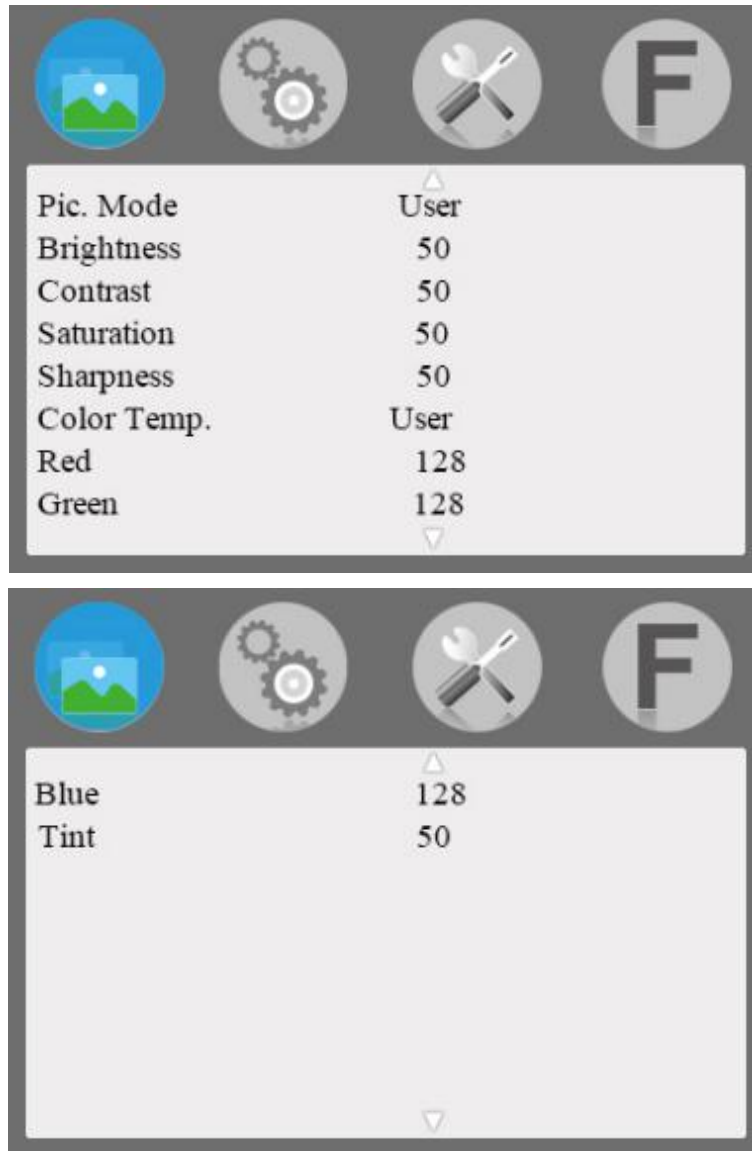
2.4 After adjust the parameters, then press “V” or “^” button to enter into the next item adjustment.

2.5 Press “**MENU**” to exit.

3. Menu Instruction



Image Color (including 2 pages)



※ **Pic. Mode: Standard, Dynamic, Mild, User**

Select 'user' to adjust Brightness, Contrast, Saturation, Sharpness.

※ **Brightness:0~100**

To adjust image's brightness.

※ **Contrast: 0~100**

To adjust the brightest and the darkest ratio of the image, please note the sense of picture when adjust, proportion too high or too low will make the picture lose the color.

※ **Saturation: 0~100**

To adjust color concentration.

※ **Sharpness: 0~100**

Also called 'Resolution', is an indicator for the image plane definition and image edge sharpness. If sharpness is higher, then the details contrast on the image is higher, the image is more clearly.

※ **Color Temp.: 6500, 9300, User**

When select 'user', adjust the R/G/B to meet the different user's requirement for the different Color Temp.

※ **Tint: 0~100**

To adjust the image cool and warm tint.



Setting (including 2 pages)

● Menu of Page One



※ **Language: English, 中文, Español, Português, Français, Nederlands, Deutsch, 日本語**

To select the OSD language

※ **Aspect Ratio: Panorama, Auto, 4:3, 16:9, Zoom 1, Zoom 2, Just Scan**

To change the display ratio.

※ **No Signal: Blue Screen, Red Screen, Green Screen, Black Screen, White Screen**

Color options of screen background when no signal.

※ **OSD Trans.: Off, Low, Middle, High**

To adjust the level of OSD transparency

※ **OSD H: 0~100**

To adjust the OSD position in horizontal

※ **OSD V: 0~100**

To adjust the OSD position in vertical

※ **OSD Time: Off, 10Sec, 20Sec, 30Sec**

To select the menu display time.

※ **Backlight: 0~100**

To adjust the monitor backlight brightness.

● Menu of Page Two



※ **Zoom All: 0~100**

Select this function, press < or > button to adjust the image to Zoom in or Zoom out.


※ **U/D Zoom: 0~100**

To adjust the proportion of the image Up and Down to Zoom In or Zoom Out

※ **L/R Zoom: 0~100**

To adjust the proportion of the image Left and Right to Zoom In or Zoom Out.

※ **Power on: Auto, Manual**

When select the Auto., the monitor will turn on when input power. But if select the manual, it is standby when input power, need to press  button to turn on the power.

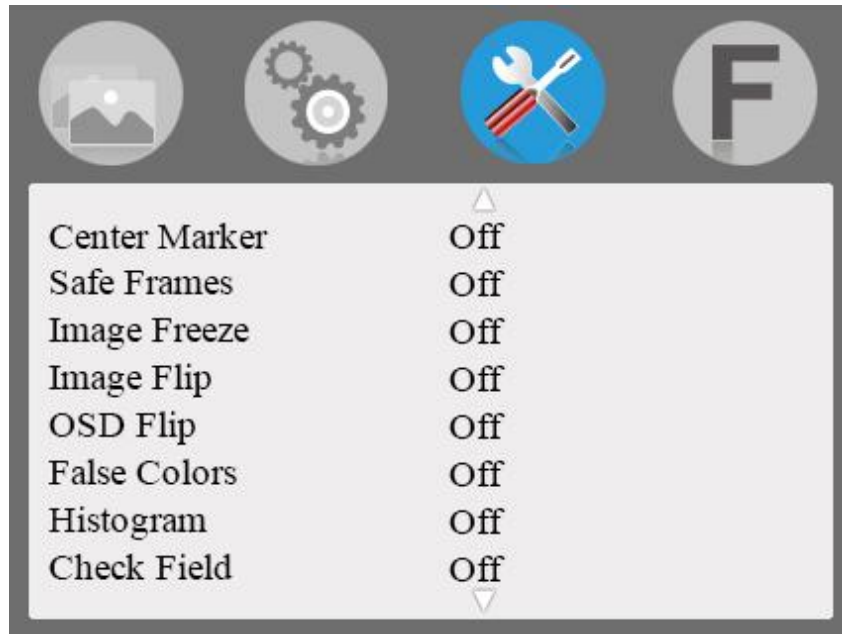
※ **USB Upgrade:** When need to upgrade the software, copy the file to the U disk, then through the USB cable to connect with upgrade USB port, then press > button to confirm. After upgrade, monitor will automatically restart.

※ **Reset:** Press > button to confirm, all monitor analog data back to original setting.



Function (Including 3 pages)

● **Menu of Page One**



※ **Center Marker: On, Off**

To set center mark (cross mark) display.

※ **Safe Frames: Off, 96%, 93%, 90%, 85%, 80%, 2.35:1**

To adjust screen marker.

※ **Image Freeze: On, Off**

The current picture still (capture function).

※ **Image Flip: Off, H_V Flip, H Flip, V Flip**

The H_V Flip, H Flip, V Flip of the image around flip.

※ **OSD Flip: Off, On**

※ **False Colors: Off, On**

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.

※ **Histogram: Off, On**

It stands for the image pixels numbers in each level of brightness and shows the brightness distribution of pixels in the image.

※ **Check field: Mono, Red, Green, Blue, Off**

Displays the picture in monochrome (black & white) or in individual primary colors

● **Menu of Page Two**



※ **Zoom: Off, 4X, 9X, 16X**

Image Zoom function, to help the photographer observe more careful image by changing it.

※ **Anamorphic: Off, 1.3X, 2.0X, 2.0X MAG**

It uses together with some side screen film lens to restore the real proportion of scene.

※ **Focus Assist: Off, On**

Under signal input, select this function and the image will change into mono, peaking (Superimpose red highlight over parts of the monochrome image in focus).

※ **Peaking Color: Red, Green, Blue**

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.

※ **Over Exposure: Off, On**

To turn on or off this function.

※ **Exposure Level: 1~100IRE**

When exposure exceeds the preset value, the monitor screen appear the twill, it is to reflect the picture exposure conditions, so as to suggest the photographer adjust the aperture to obtain proper exposure.

※ **Nine Grid: Off, On**

To make the image segmented into nine grids.

※ **Nine Grid Zoom: Off, On**

After turning on the Nine Grid function, then turn on this function, you can press “<” or “>” button to choose a image, and then press “∨” or “∧” button to zoom the image to full screen. Press “∨” or “∧” to exit the local zoom function. (To achieve this function, you need to first open the Nine Grid function.)

● Menu of Page Three



※ **Ratio Marker:** Off, 4:3, 13:9, 14:9, 15:9, 16:9

1.85:1, 2.35:1

Image display ratio marker.

※ **Mark Color:** Red, Green, Blue, White, Black

To select the above high contrast mark color according to different image.

※ **Mark Width:** 1~7

To select the above mark color display width.

※ **Modified Mark:** 0~6

Adjust the brightness of the image outside tag line to highlight the inside tag line of image.




Shortcut Button Setting



※ F1/F2: Custom selection button F1/F2

Center Marker, Safe Frames, Check Field, Focus Assist, Aspect Ratio, Image Flip, Image Freeze, Histogram, False Colors, Over Exposure, Nine Grid, Zoom, Anamorphic

To set the 2 shortcut custom button **F1**, **F2** on the panel.

For example: When in OSD menu “

You could press “V” button to set **F2** in the same way.

So when you exit OSD menu, you could press F1 directly in the front of panel to turn on “Focus Assist” function.

4. Technical Parameters


Panel Size	4.5" IPS
Color	16.7M
Resolution	1280×720 pixels
Dot Pitch	0.0771 (H) × 0.0257 (W) mm
Aspect Ratio	16:10
Brightness	400cd/m ²
Contrast	1000:1
Viewing Angle	80°/80°(L/R) 80°/80°(U/D)
Backlight	LED
Input Signal	HDMI, Video
Output Signal	HDMI, Earphone
HDMI Input / Output 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 3840×2160p (30/29.97/25/24/23.98 Hz) 4096×2160p (24Hz)
Input Voltage	DC:7~18V
Power Consumption	≅ 5W
Unit Size	126L × 72H × 18D (mm)
Unit Weight	120g
Working Temperature	- 20℃ ~50℃
Storage Temperature	- 30℃ ~65℃

5. Trouble Shooting

5.1 Only black and white or monochrome picture.

Please check saturation, brightness or contrast adjustment

under “Pic. Mode” of  Menu is suitable or not.


Enter into  function menu to check whether it is in black and white state or monochrome state.

5.2 NO picture after put on the power.

Check signal cable connecting; use the standard adapter to connect the monitor. If power supplied by battery, please check whether the battery is fully charged.

5.3 The image color distortion or abnormal, e.g. lack some color

Please check whether signal cable is connected correctly or not.

The cable damage or loose will cause poor transfer, then above malfunction will happen. Check  function menu “Color Temp.” adjustment, whether adjustment misconduct under the “user” state.

5.4 If there is still an abnormal phenomenon, please try to

enter into OSD menu select  to reset.

■ Remark:

- ★ If there are still other problems, please contact with our related technical persons.
- ★ If there are changes without prior notice.