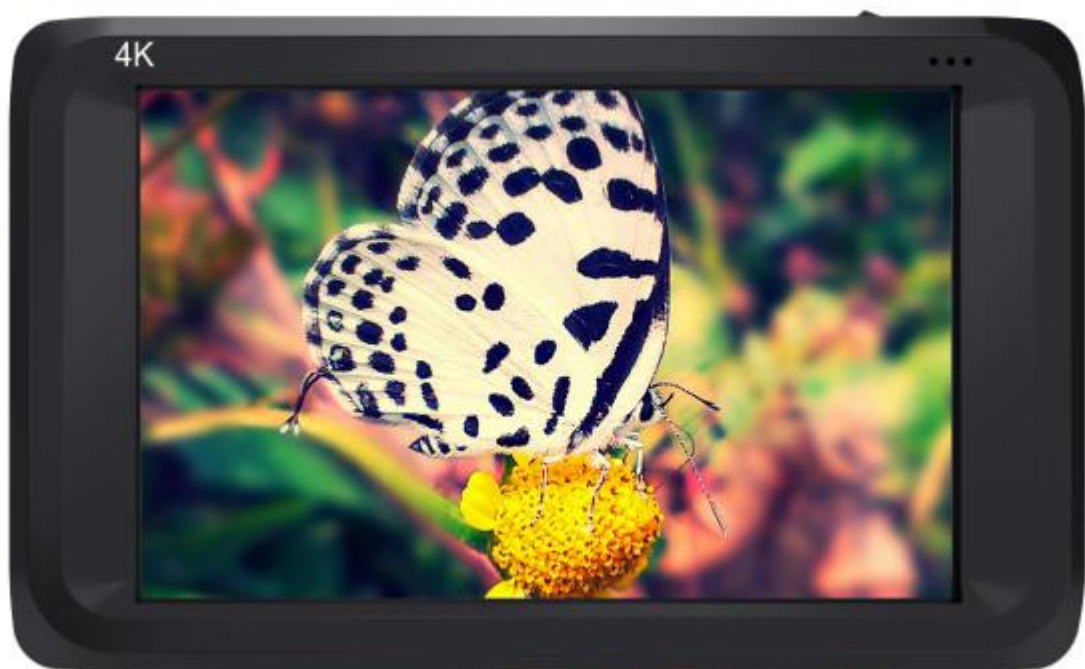# On-camera Monitor
Electronic Viewfinder

User Manual

Product Overview

The main function of an electronic viewfinder (EVF) is to assist digital camera or camcorder to view the shooting scene, namely an auxiliary tool. It could be connected and installed the magic arm to your best visual location, and it could also be connected through video cable with the camera to reach easy video shooting. It is same with normal color LCD that can be used for playback, preview and menu operation, which is very convenient to use.

To insure 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.

Product Features

◆ 3G-SDI Input/ Output, HDMI input function

◆ Focus Assist

◆ Check Field(Red, Green, Blue, Mono)

◆ Camera Mode

◆ P2P

◆ 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 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.
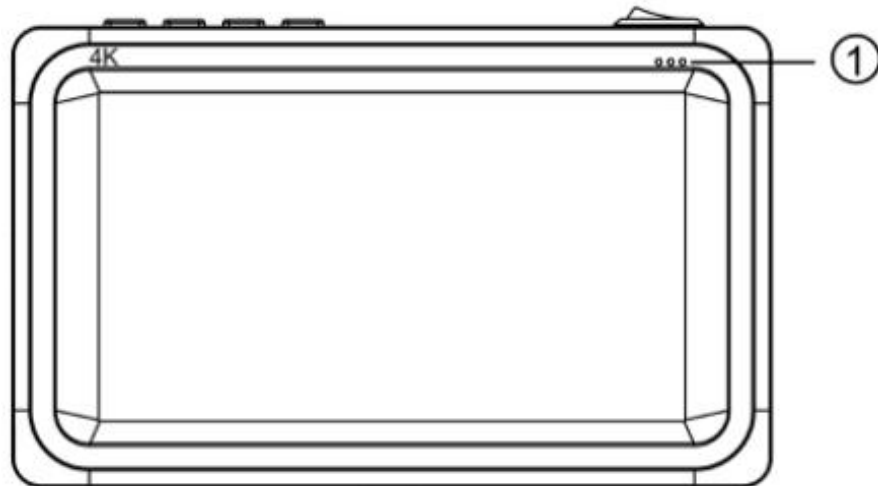
CONTENT

1. Product Instruction
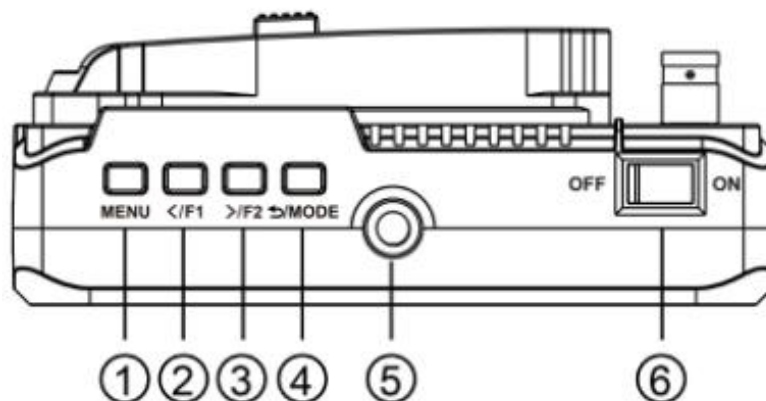
1.1 Button and Port

● **Front**

①. **Power and signal indicator**

It is red when power in and will turn green when signal in.

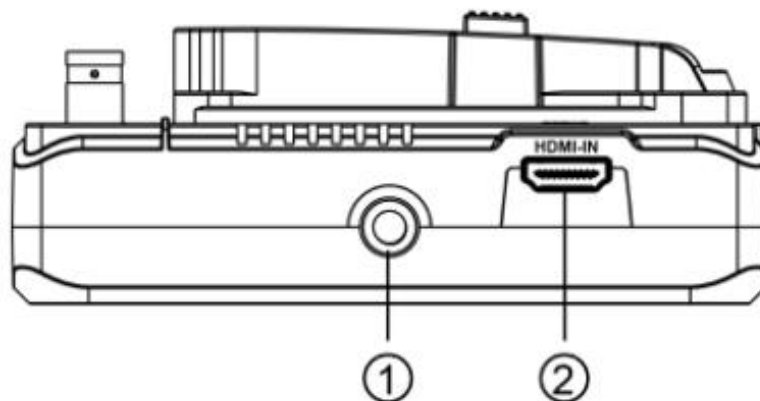● **Top**

①. **MENU:** MENU button

②. **⟨/F1:** When no menu display, it is a customized button.

When menu displays, the button is for menu item selection.

After sub-menu adjustment confirms, this button is for the

value of analog decrease or selection for the adjustment.

③. >/F2: When no menu display, it is customized button.

When menu displays, the button is for menu item selection.

After sub-menu adjustment confirms, this button is for the

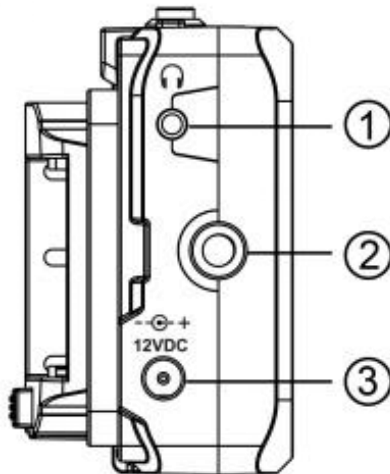value of analog increase or selection for the adjustment.

④. ↰/MODE: When no menu display, it is signal mode switch

button. When menu displays, it is menu exit button.

⑤. **1/4 inch bracket mounting screw hole:**

used for hot shoe mount, tripod installation

⑥. **Power ON/OFF: —** power on, **O** power off.

● **Bottom**

①. **1/4 inch bracket mounting screw holes:**

used for hot shoe mount, tripod installation

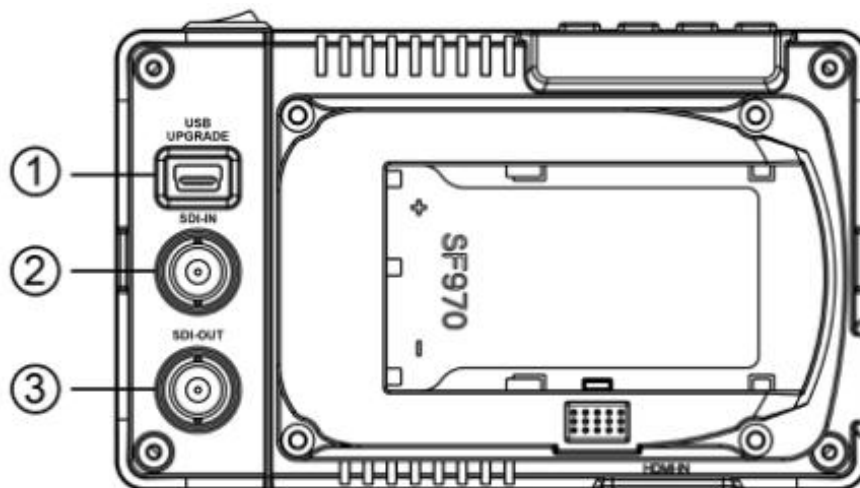②. **HDMI IN:** HD video multimedia signal input

● **Left Side**

①. 🎧 **Earphone output port**

②. **1/4 inch bracket mounting screw holes:**

   used for hot shoe mount, tripod installation

③. **12VDC Power (DC12V) input port**

● **Rear**

①. **USB Upgrade Port**

②. **SDI-IN:** 3G HD digital video signal input

③. **SDI-OUT:** 3G HD digital video signal output

1.2 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

2. Button Operation Instruction

MENU ⟹ Menu pops up. After menu pops up, press "**</F1**" or "**>/F2**" to select ▨ ⚙ ✖ Ⓕ one of them as menu function button and press "**MENU**" button to confirm and enter the sub-menu, continuous press "**MENU**" button is for selection of the sub-menu adjust item, then press "**</F1**" or "**>/F2**" to adjust or select the value for the item. After value setting, press "**MENU**" to confirm. Then Press **⟲/MODE** to exit the

adjustment or Menu.

</F1 ⟹ When no menu display, it is custom F1 button mode.

When menu displays, this button is for the value of

analog decrease or selection for the adjustment.

Button custom way, press "**MENU**" button to enter the

F (Function Menu) and select the custom button, then

Press "**</F1**" or "**>/F2**" button to pop up function

(Center Marker, Safe Frames, Check Field, Focus

Assist, Aspect Ratio, Image Flip, P2P, Image Freeze,

Camera Mode, Backlight). And press "**MENU**" to select

one of them as custom function, then press "**⤴/MODE**"

to confirm exit.

>/F2 ⟹ When no menu display, it is custom F2 button mode.

When menu displays, this button is for the value of

analog increase or selection for the adjustment.

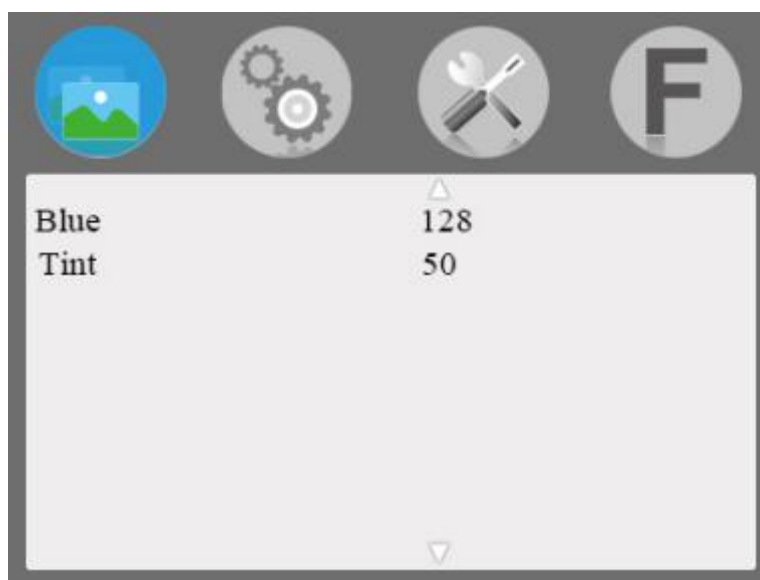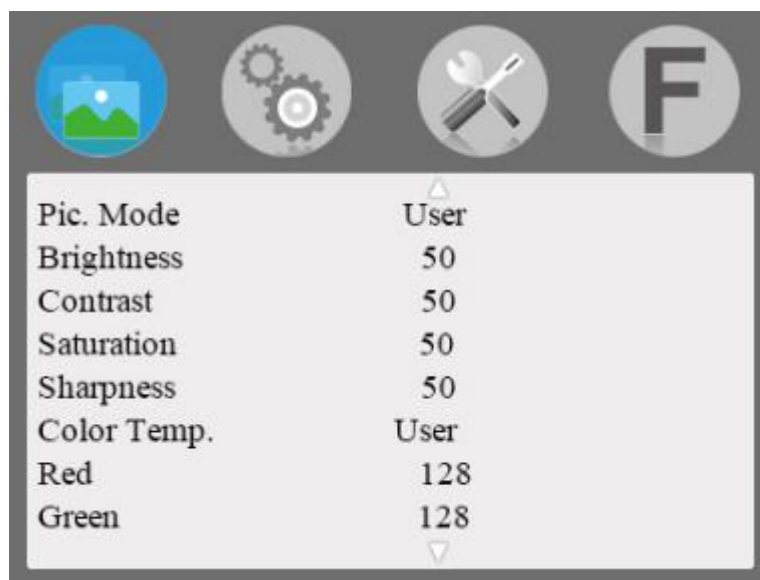Custom function button same setting as

⤴/MODE ⟹ Input signal selection;

In Menu adjustment, it is for confirm of adjustment

selection or menu exit button.

3. Menu Operation Instructions

 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

※ **Camera Mode: Off, 480P, 1080i**

Photography mode, it is observed from the monitor video real-time image, image deformation, no black screen, no delay, no distortion

※ **Zoom All: 0～100.**

Select this function, press ＜/F1 or ＞/F2 button to adjust the image to Zoom in or Zoom out.

● **Menu of Page Two**

OSD Time	Off
U/D Zoom	0
L/R Zoom	0
Backlight	80
Volume	50
USB Upgrade	
Reset	

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

To select the menu display time.

※ **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.

※ **Backlight: 30～100**

To adjust the monitor backlight brightness
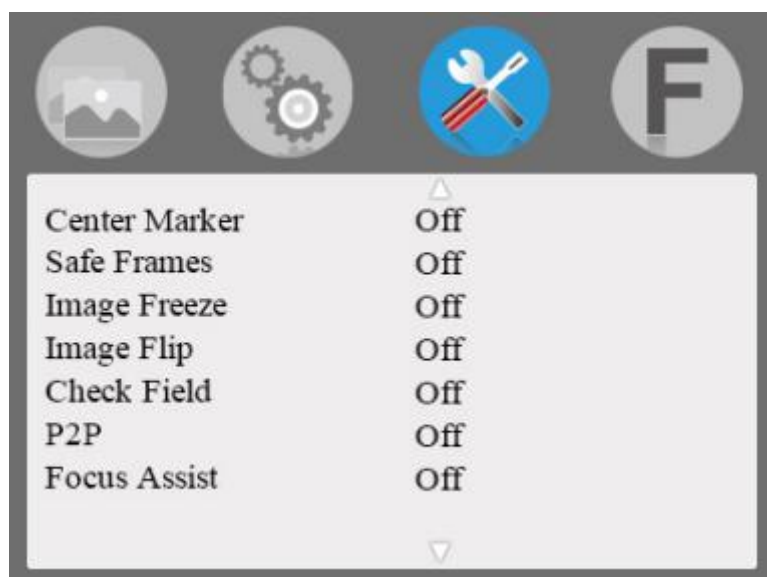
※ **Volume: 0～100**

Earphone output adjustment

※ **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 >/F2 button to confirm. After upgrade, monitor will automatically restart.

※ **Reset:** Press >/F2 button to confirm, all monitor analog data back to original setting.

Function

Center Marker	Off
Safe Frames	Off
Image Freeze	Off
Image Flip	Off
Check Field	Off
P2P	Off
Focus Assist	Off

※ **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.

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

Displays the picture in monochrome (black & white) or in

individual primary colors

※ **P2P: Off, On**

The display mode makes the resolution of the image

consistent with display of the physical resolution.

(**Non-support in 4K signal mode**)

※ **Focus Assist: Off, On**

Under HDMI input, select this function, and the image will

change into mono, peaking (Superimpose red highlight over

parts of the monochrome image in focus).

F Shortcut Button Setting

| F1 | Camera Mode |
| F2 | Focus Assist |

※ **F1: ⟨/F1 button**

Center Marker, Safe Frames, Check Field, Focus Assist,

Aspect Ratio, Image Flip, P2P, Image Freeze, Camera

Mode, Backlight

Press "**MENU**" button to enter into F function menu, and

select the corresponding custom F1, and press "⟨/F1" or

"⟩/F2" button to pop up function, then press "**MENU**" button

to select one of options as definition function and press

"↩/MODE" button to confirm and exit.

※ **F2: ⟩/F2 button**

Custom function button, same setting as F1.

4. Parameters

Panel Size	4.5 inch
Resolution	1280 × 800 pixels
Dot Pitch	0.07575 (H) × 0.02525 (W) mm
Aspect Ratio	16:10
Brightness	470cd/㎡
Contrast	900:1
Viewing Angle	80°/80°(L/R) 80°/80°(U/D)
Backlight	LED
Input	SDI, HDMI
Output	SDI, Earphone
SDI Support Format	480i/ 576i 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)
HDMI Support Format	480i/576i/480p/576p 1080i(60/59.94/50) 720p(60/59.94/50/30/29/25/24/23.98) 1080p(60/59.94/50/30/29.97/25/24/24sF/23.98/23.98sF) 4K 3840×2160p(30/29.97/25/24/23.98Hz) 4096×2160p(24Hz)
Input Voltage	DC 7～18V
Power Consumption	≤ 7 W
Unit Size	128Lx78Hx31.21D mm
Unit Weight	240g/ 270g (with F970 battery plate)
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.