

# **On-Camera Field Dedicated Electronic Viewfinder**



## **User Manual**

The main function of an electronic viewfinder (EVF) is to assist digital camera or camcorder to view the shooting scene, namely an auxiliary tool. In any ambient light, EVF can find a view in any position, without considering the camera itself placed. With the magic arm structure, EVF can be installed on your best visual position, more leisurely for video shooting. Especially in the outdoor filming, it also can avoid the LCD display reflecting in framing error. The same as color LCD, Electronic viewfinder can be used for playback, preview and menu operation, it is very convenient to use.

To ensure the best use of this product, please read this manual carefully beforehand.

## **CAUTION**

1. Please use the adapter attached in the accessory. If necessary, please use qualified adapter.
2. Please do NOT expose this product to direct in the sunlight, heat, or humid conditions.
3. Please avoid heavy impact or drop onto the ground.
4. Please do NOT use chemical solutions to clean this product.  
Please wipe with a clean soft cloth to maintain the brightness of the surface.
5. Without adjustable component in the unit, please do not take apart or repair the unit by yourself, to avoid the damage of the product.

# Product Features

- ◆ Adjustable sunshade eye patch no interfered by outside strong light.
- ◆ 3G-SDI loop through
- ◆ Earphone stereo output convenient scene pick-up effect monitoring.
- ◆ 2 custom buttons, convenient for user operate
- ◆ Screen Marker (96%, 93%, 90%, 85%, 80%, 2.35:1)
- ◆ Center Marker
- ◆ Image 16:9 or 4:3 display switch mode
- ◆ Support multiple brands of different model batteries (Sony F970, Canon E6, and Panasonic D28)
- ◆ 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

|  |           |
|--|-----------|
| <b>1. Product Instruction -----</b>          | <b>4</b>  |
| <b>1.1 Button and Port -----</b>             | <b>4</b>  |
| <b>1.2 Battery Plate and Battery-----</b>    | <b>7</b>  |
| <b>2. Button Operation Instruction -----</b> | <b>9</b>  |
| <b>3. Menu Operation Instruction-----</b>    | <b>11</b> |
| <b>4. Parameters-----</b>                    | <b>16</b> |
| <b>5. Trouble Shooting -----</b>             | <b>17</b> |

# 1. Product Instruction

## 1.1 Button and Port:

Picture 1 Top





1. **Power ON/OFF:** — power on, **O** power off
2. **1/4 inch bracket mounting screw hole** used for hot shoe mount, tripod installation.
3. **</MODE** : When no menu display, it is signal mode switch button. When menu displays, it is menu exit button
4. **>/F2** : When no menu display, it is custom 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.

5. **</F1**: When no menu display, it is custom 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
6. **MENU**: MENU Key
7. **Refractive (parallax) adjust manually**
8. **Eye lens patch**

**Picture 2 Side**



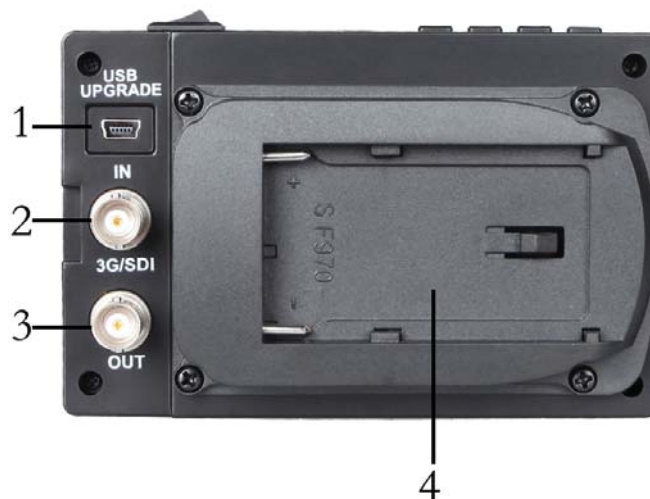
1.  : Earphone output insert
2.  **12VDC** : Power (DC12V) input insert

**Picture 3 Bottom**



- 1. HDMI IN:** HD video multimedia signal input
- 2. 1/4 bracket mounting screw holes,** used for hot shoe mount, tripod installation.

**Picture4 Back**



- 1. USB UPGRADE PORT**
- 2. 3G/SDI IN :** 3G HD digital video signal input
- 3. 3G/SDI OUT:** 3G HD digital video signal output
- 4. Battery plate**

## 1.2 Battery Plate and Battery

The battery plate has been installed at the back of the viewfinder for corresponding battery. Customers can select the corresponding battery plate according to their needs.

- Different types Battery plates as below:



**F970**



**LP-E6**



**D28**

### **Sony F970 battery slot 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

### **Canon LP-E6 battery slot for battery of Canon DV:**

Canon LP-E6

### **Panasonic D28 battery slot for battery of Panasonic DV:**

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

- Corresponding to the above three types of batteries



**F970**



**LP-E6**



**D28**

**Remark:** Different specifications of the battery, capability is different. The working time for the view finder will be different. Higher capability (working time) will be longer.



- **Battery installation way**







**Suggestion: If do not use this product for a long time, it is better to remove battery for storage.**

Different specifications of the battery, capability is different. The working time for the monitor will be different. Higher capability (working time) will be longer.

**Without design charging circuit for the monitor, please remove the battery to the battery charger for charge.**

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

## 2. Button Operation Instruction

**MENU**  $\Rightarrow$  Menu pops up. After menu pops up, press “</F1” or “>/F2” to select     one of them as menu button and press MENU button to confirm and enter the sub-menu, repress MENU one time is for sub-menu item adjustment confirm, then press “</F1” or “>/F2” to adjust or select the value for the item. After value setting, press MENU to confirm. Then Press  $\hookrightarrow$ /MODE to exit the adjustment or menu.

**</F1**  $\Rightarrow$  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 “>/F2” to pop up the function that user needs, such as Center Marker, Safe Frames, Check Field, Focus Assist, Aspect Ratio, Image Flip, Pixel to Pixel, Image Freeze, Camera Mode, Backlight, Etc. And press “**MENU**” to select one of them as custom function, then press  $\hookrightarrow$ /MODE to confirm exit.

**>/F2**  $\Rightarrow$  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.

Button custom ways, Use “**MENU**” button to enter the F (Function Menu) and select the custom button, then press “**</F1**” to pop up the function that user needs, such as Center Marker, Safe Frames, Check Field, Focus Assist, Aspect Ratio, Image Flip, Pixel to Pixel, Image Freeze, Camera Mode, Backlight, Etc. And press “**MENU**” to select one of them as custom function, then press **↵/MODE** to confirm exit.

**↵/MODE**  Input signal selection

In Menu adjustment, it is for confirm of adjustment selection or menu exit button.

### 3. Menu Operation Instruction



#### Image Color (including 2 page)



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

Select 'user' to adjust the image of "Brightness, Contrast, Saturation, Sharpness" according to the practical situation.

※ **Brightness:** The function is for image's brightness adjustment.

※ **Contrast:** To adjust the brightest and darkest ratio of the image. Please note the sense of picture when adjust, proportion too high or low will make the picture lose the color of showy

※ **Saturation:** To adjust color concentration

※ **Sharpness:** 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 and the image is more clearly

※ **Color Temp. :** 6500, 9300, User

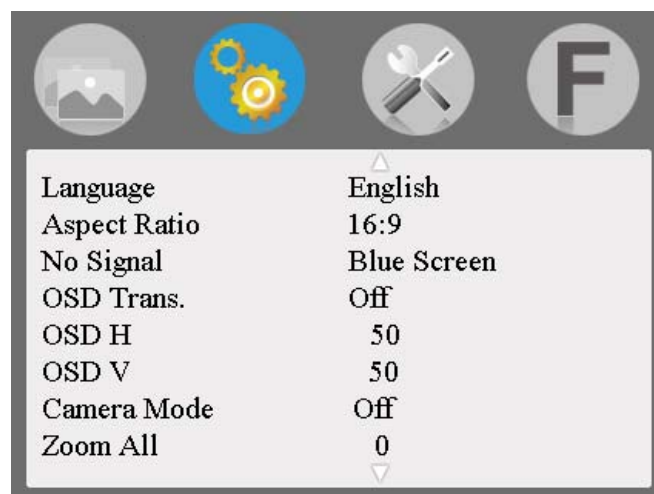
When select '**user**', according to the need, image's R/G/B ratio can be adjusted, to meet user's requirements for image in different color temperature.

※ **Tint:** Color tint is adjusted by Tint.



## Setting (including 2 page)

### ● Menu of page one



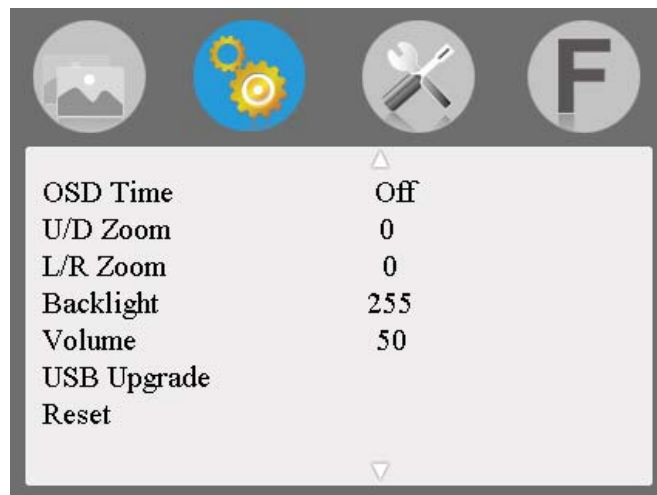
※ **Language:** Language for OSD:

**English, 中文, Español, Português, Français, Nederlands, Deutsch, 日本語**

※ **Aspect Ratio:** To change the image ratio: Panorama, Autom, Just Scan, Zoom 1, Zoom 2, 16:9, 4:3

- ※ **No Signal:** Color options of screen background without signal: Black screen, White Screen, Red Screen, Green Screen, Blue Screen
- ※ **OSD Trans. :** To adjust the level of transparent.
- ※ **OSD H:** To adjust the OSD position in horizontal.
- ※ **OSD V:** To adjust the OSD position in vertical.
- ※ **Camera Mode:** The monitor video has real-time images. NO black screen, NO delay, perfect without distortion.
- ※ **Zoom All:** Press “</F1” or “>/F2” button, to adjust the image to Zoom in or Zoom out.

● **Menu of page two**



- ※ **OSD Time:** The function is to adjust the clock.
- ※ **U/D Zoom:** Press “</F1” or “>/F2” button, to adjust the proportion of the image up and down to Zoom in or Zoom out.
- ※ **L/R Zoom:** Press “</F1” or “>/F2” button, to adjust the

proportion of the image Left and right to Zoom in or Zoom out.

※**Backlight:** To adjust the panel brightness of backlight

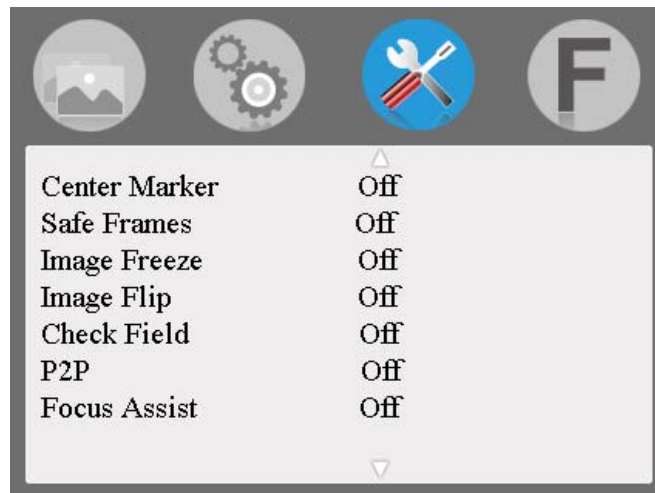
※ **Volume:** Headphone volume output adjustment.

※**USB Upgrade:** When need to update the native data application software, copy the file to the U disk, then through the USB cable to connect with upgrade USB port, press“>/F2”key to confirm. After the upgrade, monitor will automatically restart. Do NOT plug a USB cable into this connector without contacting the factory.

※ **Reset:** Press“>/F2”button, back to original setting.



## Function



※**Center Marker:** To set center mark (cross mark) display.

※**Safe Frames:** To adjust screen marker (off, 96%, 93%, 90%, 85%, 80%, 2.35:1).

※**Image Freeze:** The current picture still (capture function).

※**Image Flip:** The H\_V Flip, H Flip, V Flip of the image around flip.

- ※ **Check field:** Switch the Image between Mono, Red, Green, Blue
- ※ **P2P:** Pixel to Pixel, the Eve's resolution can be adjusted to go with the video, so the user can have a real HD viewing.
- ※ **Focus Assist:** Under HDMI input, select this function, Peaking (Superimpose red highlight over parts of the monochrome image in focus)

## **Shortcut button setting**



- ※ **F1: It is </F1 button.**

Press “**MENU**” button to enter the F (Function Menu) and select the custom button, then press “>/F2” to pop up the function that user needs, such as Center Marker, Safe Frames, Check Field, Focus Assist, Aspect Ratio, Image Flip, Pixel to Pixel, Image Freeze, Camera Mode, Backlight, Etc. And press “**MENU**” to select one of them as custom function, then press  $\hookrightarrow$ /MODE to confirm exit.

- ※ **F2: It is >/F2 button**

Custom button, See above **F1**





#### 4. Parameters

|                         |   |
|-------------------------|---|
| Panel Size              | 3.5inch   |
| Panel Type              | COLOR TFT-LCD   |
| Resolution              | 800 ×480× RGB   |
| Dot Pitch               | 0.0315(W) x 0.0945 (H)  |
| Aspect Ratio            | 15:9  |
| Brightness              | 315cd/m <sup>2</sup>  |
| Contrast                | 800:1   |
| Response Time           | 10 ms   |
| Viewing Angle           | 80°/80°(L/R) 80°/80°(U/D)   |
| Back Light              | LED   |
| Input Signal            | HDMI, SDI   |
| Signal Output           | SDI   |
| HDMI Support Format     | 480i/576i/480p/576p<br>720p (60/59.94/50/30/29/25/24/23.98)<br>1080i (60/59.94/50)<br>1080p (60/59.94/50/30/29.97/25/24/24fps/23.98/23.98fps) |
| SDI Support Format      | 480i/576i<br>720p (60/59.94/50/30/29/25/24/23.98)<br>1080i (60/59.94/50)<br>1080p (60/59.94/50/30/29.97/25/24/24fps/23.98/23.98fps)           |
| Input Power Voltage     | DC6 ~ 18V   |
| Power Consumption       | ≤ 6 W   |
| Standby Current         | ≤ 50mA  |
| Weight (except battery) | 344±15 g  |
| Working Temperature     | -20℃ ~ 50℃  |
| Storage Temperature     | -30℃ ~ 65℃  |

## 5. Trouble Shooting


### 5.1 Only black and white or monochrome picture.

Please check if saturation, brightness or contrast adjustment under 'Pic. Mode' of  Menu is suitable or not. Enter  function of the Menu, Press 'Check Field' button 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.