7" Full HD On-camera Monitor

Support 4K HDMI Input/ Output

User Manual

Product Overview

Thank you for purchasing our photography, broadcasting kits 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 All waves, 3D LUT, Histogram, False Colors, Zebra Exposure, Focus Assist, Embedded Audio, Nine Grid, Center Marker, Safe Frames, Color Temp., Picture Setting, Color Setting etc., ideal portable lightweight as 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

- ● 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.

● Please use the qualified adapter, or use the qualified battery if need.

● 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 keep away from the rubber.

　4. Please do not clean the case hard.

　5. Please simply wipe with a clean soft cloth and make sure no water on the cover.
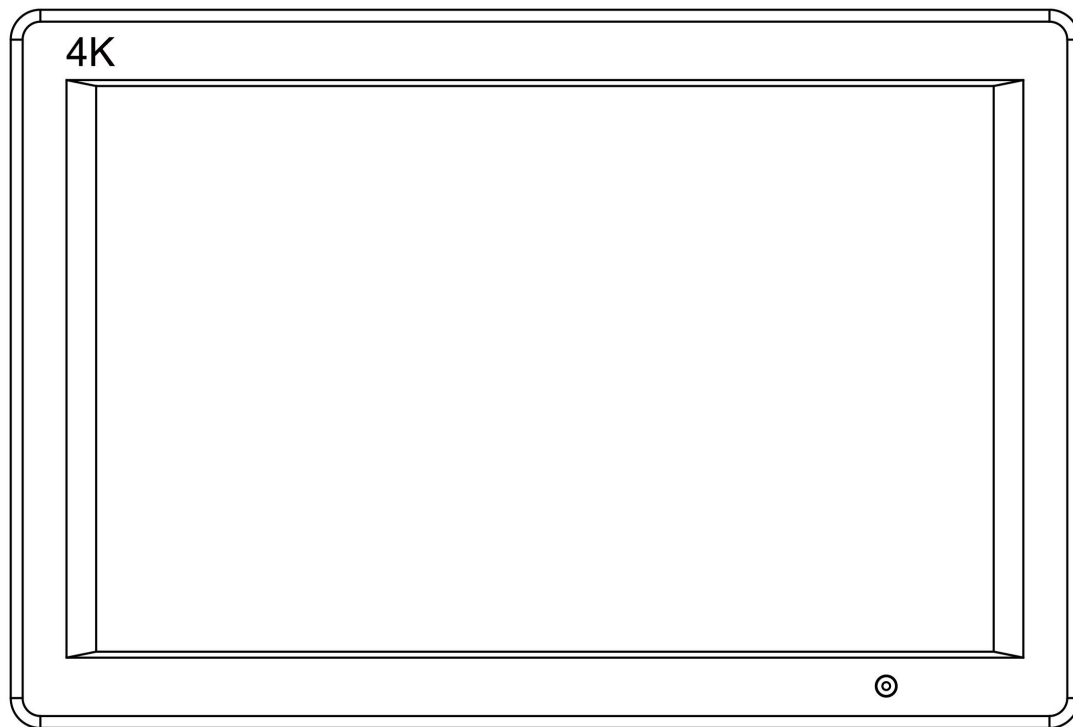
Features

- IPS LCD panel, full HD 1920X 1200

- Support 4K UHD signal input and output

  3840×2160p (30/29.97/25/24/23.98 Hz) / 4096×2160p (24Hz)

- Support 3D LUT Log to REC.709 and user 3D LUT upload

- Histogram is a quantitative tool to inspect the image brightness, to guide the exposure control

- Analog stereo L/R, embedded audio display

- Focus Assist (Focus edge can be Red, Green, Blue)

- False Color function, convenient to guide the using light when shooting and the post production

- Check Field (Red, Green, Blue, Mono)

- Image Zoom-in function

- Anamorphic Mode

- Image Flip (H, V, H/V)

- Image Freeze

- Image Nine Grid, zoom one of the images to realize the full screen

- Pixel to Pixel

- Marker Types, Safe Frames and Center Marker

- Display and adjust the image Color Temp

- Brightness, Contrast, Tint, Saturation and Color Temp Adjustment.

- Support varieties of the different types of the battery brands (F970, E6, D28S, U60)

- Speaker and earphone output

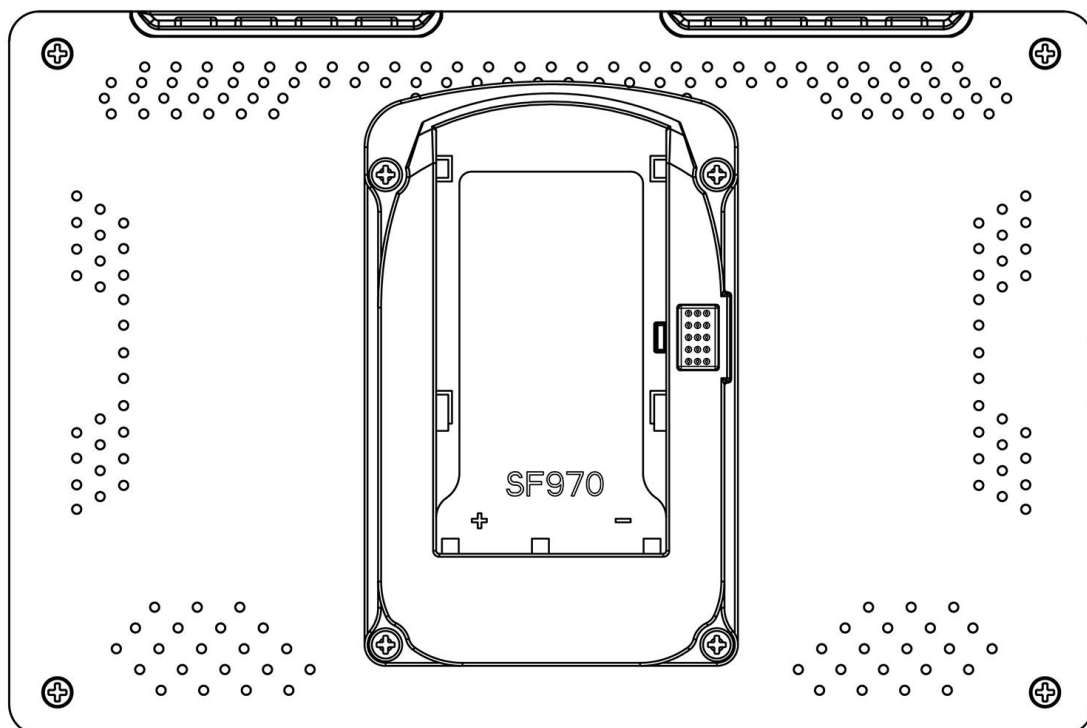- External sunshade, sunlight readable

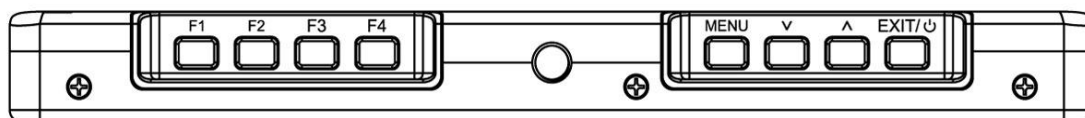# CONTENTS

1. Product Description

● Front Panel

4K

● Back Panel

SF970

1.1 Button Instruction

Button	Function when OSD is not displayed	Function when OSD is displayed
F1	Custom button F1	/
F2	Custom button F2	/
F3	Custom button F3	/
F4	Custom button F4	/
MENU	Display OSD Main menu	Confirm button
∨	Decrease the volume/backlight	Select next menu item Decrease or adjust value of selected parameter
∧	Increase the volume/backlight	Select previous menu item Increase or adjust value of selected parameter
⏻	Power On/Off button	Return /Exit menu

1.2 Port Instruction (Bottom)
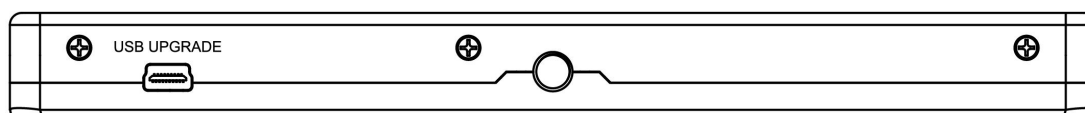
USB UPGRADE: Firmware USB upgrade port，3D LUT files import.
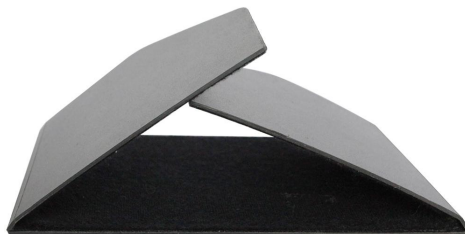
1.3 Port Instruction (Left)
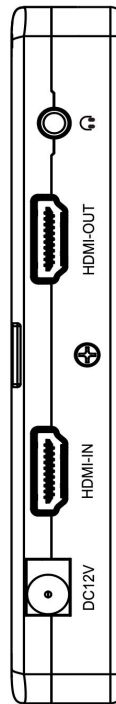
🎧**:** 3.5mm Earphone port output

HDMI OUT: HDMI signal output

HDMI IN: HDMI signal input

DC12V: DC power input interface, polarity as the input power −⬤+

1.4 Sunshade

① **Sunshade**

② **Sunshade Frame**

③ Fixed Frame　　　　　　**④ Sunshade Application**

First open the Sunshade Frame ①, and match the sticker on the sunshade inside to the marked part of the sunshade frame ②, smooth and press 3 sides on the sunshade ③, and then complete the sunshade installation ④.

1.5 Battery Plate

There is a battery plate installed on the back of the monitor, you can assemble the corresponding battery to power the monitor. There are many different battery plates. Customers can choose the suitable battery plate according to the battery.

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.

2. Menu Operation Instruction

After correctly connect to the power supply, the indicator will

turn (Red), press EXIT/⏻ button to turn on monitor power,

the indicator will be Yellow, and then input HDMI signals, the

indicator will turn Green from Yellow.

2.1 When the menu is not displayed, directly press the "∨"or

 "∧"button to adjust the volume or backlight. You can set it as

 volume or backlight in the menu Left Right Key of User Option

2.2 Press "**MENU**" button to enter OSD main menu, press MENU

button again to enter secondary menu, then press "∨"or "∧"button

to select items, after selected press MENU button to confirm and

enter function menu, press "∨"or "∧"button to select the

corresponding function or adjust the parameters.

2.3 Press EXIT/⏻ button to exit the menu

3. MENU UI Interface Instruction
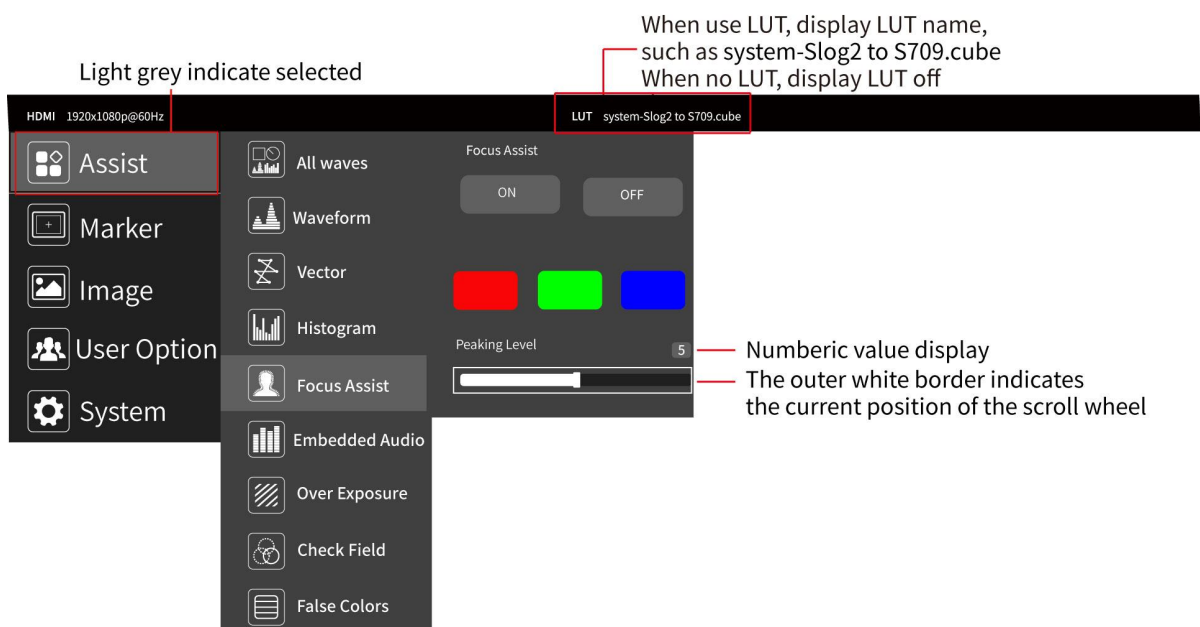
4. Menu Function Instruction

 Assist

All Waves	**On, Off** After turning on, waveform, vector, histogram and embedded audio will be shown.
Waveform	**On, Off** **Mode：RGB、YUV、Y** 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. **Waves Trans. : Off, 25%, 50%, 75%**
Vector	**On, Off** shows how saturated the image is and where the pixels in the image land on the color spectrum.
Histogram	**On, Off** **Mode：RGB1、RGB2、Y**
Focus Assist	**On, Off** **Color :**（Red, Green, Blue） **Peaking Level : you can adjust the peaking level after turning on（1～10）**
Embedded Audio	**On, Off** 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.

Over Exposure	**On, Off** **Exposure Level : you can adjust the exposure level after turning on（10~100）**
Check Field	**On, Off** **Mode : Red, Green, Blue, Mono**
False Colors	**On, Off**

Marker

Nine Grid	**On, Off** **Color: Red, Green, Blue, Black, White, Gray**
Safe Frames	**On, Off** **Mode: 80%, 85%, 90%, 93%, 96%, 2.35:1** **Color: Red, Green, Blue, Black, White, Gray**
Center Marker	**On, Off** **Color : Red, Green, Blue, Black, White, Gray**
Ratio Marker	**On, Off** **Mode: 4:3、13:9、14:9、15:9、16:9、1.85:1、2.35:1** **Color: Red, Green, Blue, Black, White, Gray** **Modified Mark : 0~5**

Image

Scan Mode	**Under Scan, Over Scan**
Aspect Ratio	**Auto, 16:9, 16:10, 4:3, 5:4, 1.85:1, 2.35:1, Full Screen**
Anamorphic	**On, Off** **Mode：1.33X, 1.6X, 2.0X, 2.0X MAG, User** Under the **User**, can be customized（1.20X～2.00X）
Image Flip	**On, Off** **Mode: H Flip, V Flip, H_V Flip**
Zoom Mode	**On, Off** **Mode：2X、4X、9X、16X、User** Under the **User**, can be customized（100%~200%）
Image Freeze	**On, Off**
P2P	**On, Off**

User Option

	On, Off After the LUT Switch is turned on, you can use the **Lut**

LUT	**(SLOG2, SLOG3, LOGC, VLOG)**. **Lut Import：Confirm** After copying the 3D LUT file to the USB flash driver then connecting USB UPGRADE port via USB-female to mini-USB cable, press "∨"or "∧" button to select Confirm of LUT Import and press MENU button confirm to import the 3D LUT file. **Lut Table** Show the 4 built-in Lut and the custom load Lut (up to 32）
![display icon] **Display Adjustment**	**Backlight：0~100** **Brightness：0~100** **Contrast：0~100** **Saturation：0~100** **Tint：0~100**
![color icon] **Color Adjustment**	**Color Temp.：5600K, 6500K, 9300K, User** Under the **User**, the red, green and blue of the image can be adjusted (0~255)
![F icon] **Shortcut Key**	All Waves, Waveform, Vector, Histogram, Embedded Audio, Center Marker, Safe Frames, Nine Grid, Focus Assist, False Colors, Over Exposure, Anamorphic, Image Freeze, Check Field, Zoom Mode, Image Flip, Aspect Ratio To set the 4 shortcut custom button F1~F4 on the panel e.g.: Press MENU button to enter main menu , using "∨"or "∧" select User Option and press MENU button confirm, then select ![F icon] shortcut key and press MENU button confirm. Then select F1 and confirm to pop-up function items select one of them and press MENU button to confirm, the cursor will be changed to gray color after confirmed. Same setting for F2~F4

 Left Right Key Set	Volume, Backlight

 System

 Language	English、简体中文、Español、Português、Français、Nederlands、 Deutsch、日本語、**繁體中文**、**한국어로**、**русский язык**
 OSD Option	OSD Time：Off, 15Sec, 30Sec, 45Sec OSD Trans: Off, 25%, 50%, 75% No Signal: Red, Green, Blue, Black, White, Gray
 Volume	**On, Off** 0~100
 Reset	Select **Reset** and press MENU button **Confirm**, the system back to original setting.
 Firmware Update	After copying the upgrade file to the USB flash driver then connecting USB UPGRADE port via USB-female to mini-USB cable press the MENU button confirm to upgrade. After the upgrade is complete, the monitor will automatically restart.

5. Technical Parameters

Panel Size	7.0 inch
Resolution	1920×1200 pixels
Dot Pitch	0.07875(W) x 0.07875 (H)mm

Aspect Ratio	16:10
Brightness	450cd/m^2
Contrast	1200:1
Viewing Angle	80°/80°(L/R) 80°/80°(U/D)
Backlight	LED
Input	HDMI
Output	HDMI
Audio	3.5mm Stereo Headphone, Speaker
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 UHD 3840×2160p (30/29.97/25/24/23.98 Hz) 4096×2160p (24Hz)
Input Voltage	DC7~24V
Power Consumption	≦8W
Unit Size (mm)	180Lx120Hx18D (mm)
Unit Weight	320g/350g (With F970 Battery Plate)
Mount Points	¼-20 thread points (top, bottom)
Working Temperature	- 20℃ ~ 55℃
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, and if monitor is synchronized with the input signal.

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 No sound

① Check if Volume control do not open, rotate the volume button, and try to increase the volume.

② Check the HDMI input and ensure there is HDMI signal.

■ 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.