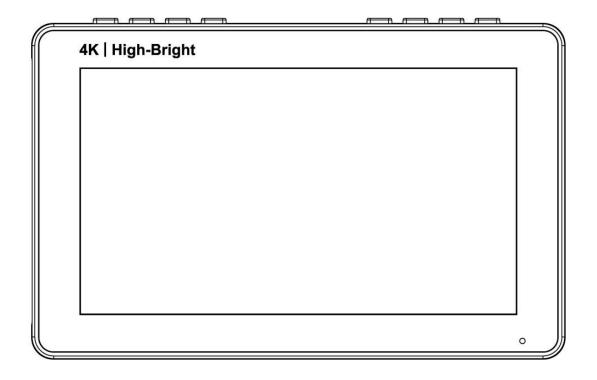
5.5" High Bright Monitor F970 Install and Power Kit



User Manual

Foreword

Thank you for purchasing our 5.5-inch high bright touch screen monitor. Please read this manual carefully before using the unit. Have a great experience!

Caution

- Please avoid the heavy impact and drop onto the ground when move the product.
- 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, and 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.
- In order to better maintain the LCD screen and protect the cover, please follow the following ways to avoid 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.

Key Features

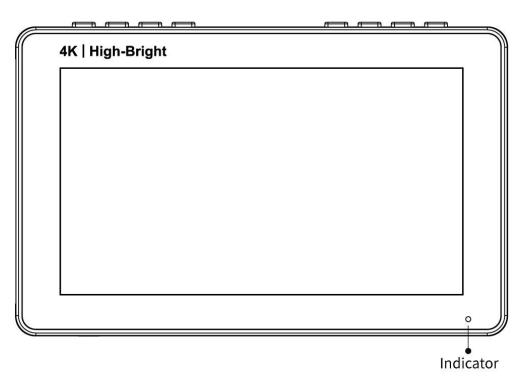
- > 5.5-inch 1920x1080 full HD IPS screen
- Touch screen and intuitive button operation, meet different needs.
- High Brightness 1600nits, visible in sunlight
- Supports 3D LUT Log to REC.709 and user 3D LUT upload (up to 32).
- Sony F970 external install and power kit design can be used to install and supply power to external equipment, easy to install and disassemble, simplify your photography equipment.
- With Waveform, Vector scope, RGB Histogram, Focus Assist, Monochrome etc. functions, can help you accurately exposure and focus every shot.
- Multiple power supply modes, DC IN 12V, Type-C 5V and NP-F battery slot.
- Stereo Earphone output
- DC 8.4V power out to power your DSLR camera or mirrorless camera.

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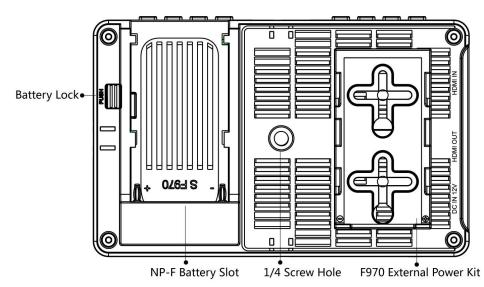
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1. Product Description

1.1 Front Panel Instruction



Indicator: After connecting the power, the indicator light is on (red). Long Press EXIT/ひ button to turn on the monitor, it turns yellow. After the signal is connected, it turns green.



1.2 Rear Panel Instruction

Battery Lock: The PUSH lock will lock after the battery installed,

please press PUSH firstly before remove the battery.

NP-F Battery Slot: It is applicable to install NP-F series of

batteries.

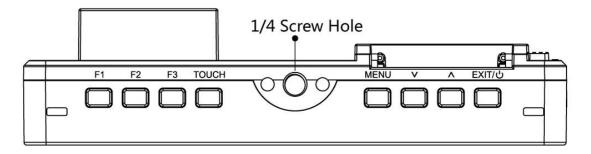
F970 Install and Power Kit: Installing the external equipment, like

wireless transmitter, LED light, video converter and others which can

be powered by Sony F970 battery. (The details see: 1.7 Sony F970

Install and Power Kit)

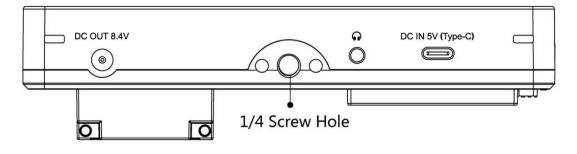
1.3 Top Button Instruction



Button	Function when OSD is not displayed	Function when OSD is displayed
F1	Custom button F1	1
F2	Custom button F2	1
F3	Custom button F3	1
тоисн	Turn ON/OFF touch function	/
MENU	Display OSD Main menu	Return to previous OSD menu
V	Decrease the volume or	Select next menu item;
	backlight	Decrease or adjust value of
		selected parameter
∧	Increase the volume or	Select previous menu item;

	backlight	Increase or adjust value of
		selected parameter
EXIT/ن	Power On/Off button; Return/E	xit Menu

1.4 Bottom Port Instruction



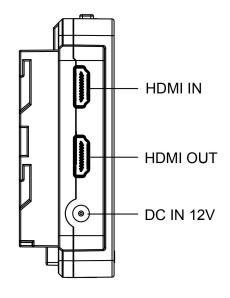
DC OUT 8.4V: DC power output interface, polarity as the output

power -- C+ Barrel

•: 3.5mm earphone port output

DC IN 5V (Type-C): Type-C power input. It is recommended to be used for local power supply only. It is not recommended to connect other devices to provide loop-out power.

1.5 Left 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, polarity as the input power

--**©**-+

1.6 Power Supply Way

(1) The rear cover of the monitor is equipped with a F970 battery plate, which is applicable to F970 series of batteries.

Sony F970 battery plate for battery of Sony DV:
Sony F970 F960 F950 F930 F770 F750 F730 F570 F550 F530 series.
It is recommended to use standard original F970 battery.
When using battery power supply: two power output interfaces (DC OUT 8.4V interface and external install and power kit) can be connected to other device. When powering other device, it is recommended to choose a battery with a larger capacity, so the longer the use time.

Remark: Please take off the battery from the monitor if you don't use the monitor in a long time.

(2) The left side of the monitor has a DC 12V input power port (suitable for power plug of 5.5mm outer, 2.1mm inner) and supports 7 ~ 24V wide voltage.

The DC power adapter needs to be purchased separately. When using external adapter input: two power output interfaces (DC OUT 8.4V interface and external install and power kit) can be connected to other devices. When powering other equipment, it is recommended to equip at least 3A power adapter.

(3) The bottom of the monitor has a Type-C 5V input power port. This port can be connected to the power bank for power supply and is not used for data transmission; it is recommended to be used only for local power supply, and it is not recommended to connect other devices to provide loop-out power.

(4) The monitor also with a DC 8.4V power output (suitable for power plug of Barrel 5.5mm outer, 2.1mm inner),can power for your camera with a separately available DC coupler via adaptor (NP-FW50 Sony & LP-E6 Canon&DMW-BLF19 Panasonic). More adapters coming soon.

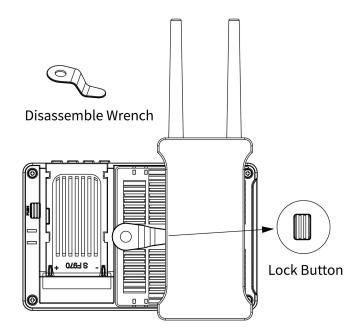
1.7 Sony F970 Install and Power Kit

A Sony F970 external install and power kit design is added to the back of the monitor. The external kit can be used to install and install the external equipment, like wireless transmitter, LED light, video converter and others which can be powered by Sony F970 battery.

The kit has two cross grooves, you can adjust the position of the external device by loosening 2 screws up and down / left or right, or install the kit upside down. When you don't need the kit, you can loosen the screws and remove the kit.

Note: Before disassembling the kit, make sure that the monitor is turned off, and then remove the battery or power adapter.

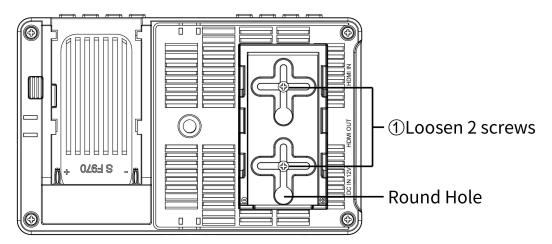
- (1) Just move the kit: Loosen 2 screws, and then adjust up / down / left / right.
- (2) Remove the external device: After the plug-in device is installed on the kit, if your plug-in device has a locking button, and it is more difficult to press it to remove it by hand, then you can use our assisting tool to disassemble.

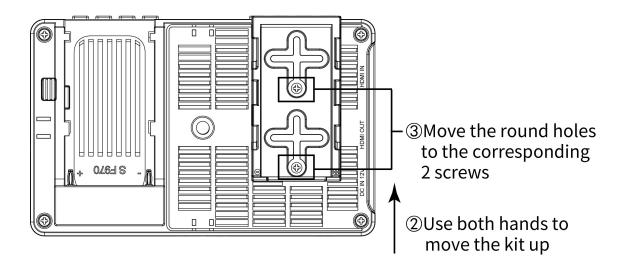


(3) Steps to remove the kit:

- 1 . Loosen the 2 screws.
- ②. Use both hands to move the kit up.
- ③. Move the round holes to the corresponding 2 screws.

(You can also install the kit upside down.)



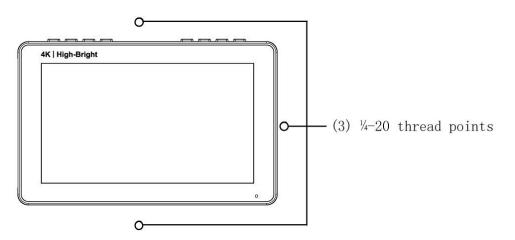


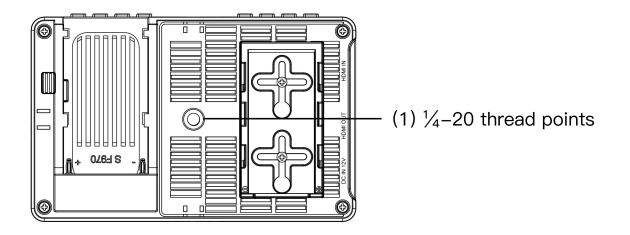
- ④. Then gently lift the kit upwards and carefully disassemble the 2P power cord.
- ⑤. Then remove the 2 screws.
- (4) Install back to the kit: first screw the 2 screws back to the screw hole used to install the kit on the back of the monitor, install the 2P power cable to the cutout, then align the round hole of the kit with the screw, and then push the kit to the screw at the center of the kit cross, then tighten the screws.

1.8 Mount Points

(1) ¹/₄-20 Thread Points

There are (4) ¹/₄-20 thread points (top, bottom, right side & Back center) can be easily connected to the hot shoe mount, tripod fixed installation.

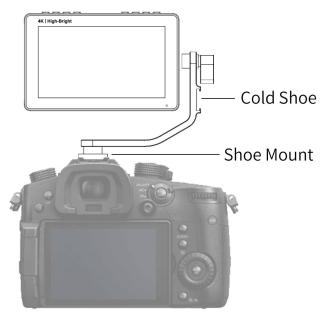




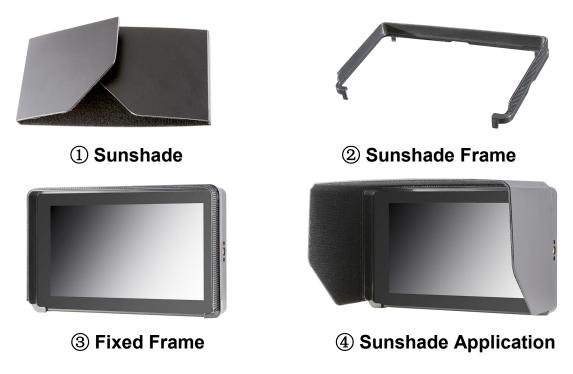
(2) Tilt Arm Mounting

The monitor secures to your camera using the included Tilt Arm via shoe mount or 1/4"-20 thread.

- Allows the monitor to rotate 360 degrees for viewing convenience
- Secure and lightweight mounting via shoe mount or 1/4"-20 thread
- Includes a shoe mount of its own for accessories like a microphone, LED light, or wireless receiver, etc.
- There are two small dots on the tilt arm, which are aligned with the monitor for installation, the connection is more stable, just grab the monitor to rotate without loosening the screws.



1.9 Sunshade



First lock the Sunshade Frame ②with the monitor tight ③. Open the sunshade 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, and then complete the sunshade installation ④.

2. Menu Operation Instruction

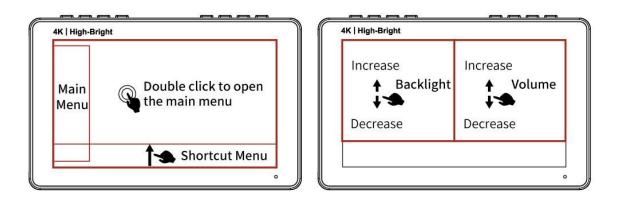
After the monitor is correctly connected to the power supply, the indicator light is on (red), long pressEXIT/ひ, turn on the monitor, the indicator light turns yellow, and after the HDMI signal is input, the indicator light turns green.

After turning on the power, you can press the **TOUCH** key to select turn on/off the touch function.

(1). Touch screen menu operation (default touch screen is on)

- Double-click on the screen to open the main menu (on the left side of the screen) and click on the corresponding menu to display the secondary menu. You can enter the corresponding function option and click directly to select or set. Click the touch screen to exit the menu.
- ②. When the menu is not displayed, swipe up from the bottom of the screen to open the shortcut menu, and click the function icon to open the corresponding function, click the icon again to exit the function. Swipe the shortcut menu left and right to select more functions. Click the touch screen outside the shortcut menu to exit the shortcut menu display.
- ③. On the left side of the screen (1/2 split screen), you can directly adjust the brightness of the screen backlight; on the right side of the screen (1/2 split screen), you can directly adjust the volume.

Figure:

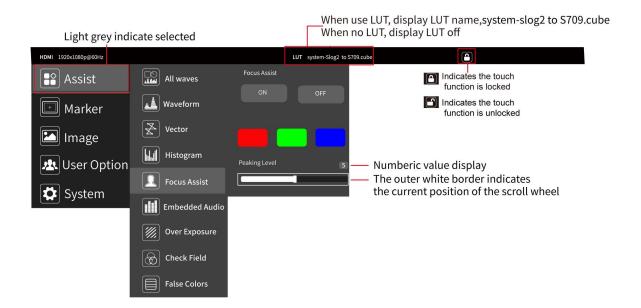


(2) Button Menu Operation

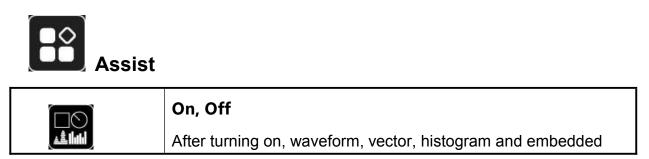
 When the menu is not displayed, directly press the "∨" or "∧"button to adjust the volume or backlight. You can set the left and right buttons in the in the Left Right Key Set of menu User Option

- 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.
- ③. Press EXIT/ 也 button to return / exit the menu

3. MENU Interface Instruction



4. Menu Function Instruction



All Waves	audio will be shown.
	On, Off
	Mode : RGB、YUV、Y
	Position X: 0~100 (moving the waveform horizontally)
ر گف	Position Y: 0~100 (moving the waveform vertically)
Waveform	Waves Trans. : Off, 25%, 50%, 75%
	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.
R	On, Off
<u> </u>	Position X: 0~100 (moving the Vector horizontally)
Vector	Position Y: 0~100 (moving the Vector vertically)
	shows how saturated the image is and where the pixels in the
	image land on the color spectrum.
.	On, Off
	Mode: RGB1、RGB2、Y
Histogram	Position X: 0~100 (moving the histogram horizontally)
	Position Y: 0~100 (moving the histogram vertically)
	RGB Histogram: It can display the graphic of color tone
	distribution, can intuitively display the exposure status of the
	image, and display overlapping histograms in red, green, and
	blue channels
	Y Histogram: A quantitative tool to check the picture brightness,
	display different color for different brightness.
	On, Off
	Color: (Red, Green, Blue)
Focus Assist	Peaking Level : you can adjust the peaking level after
	turning on ($1 \sim 10$)

	It highlights the areas that are in focus so you are able to quickly
	focus the camera and not miss crucial shots.
	On, Off
	Position X: 0~100 (moving the audio level horizontally)
Embedded Audio	Position Y: 0~100 (moving the audio level vertically)
	The Audio Level Meters provide numerical indicators and
	headroom levels.
	On, Off
	Exposure Level : you can adjust the exposure level after
Over Exposure	turning on (10~100)
	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.
	On, Off
	Mode : Red, Green, Blue, Mono
Check Field	When enabled, hue and saturation adjusted quickly and
	accurately
	On, Off
	Mode: Normal, ARRI
False Colors	An image that depicts an object in colors that differ from those a
	photograph (a true color image) would show.



	On, Off Mode: 2x2,3x3,4x4,5x5,6x6,7x7,8x8,9x9, Custom
Grid	Rows: 2~9
	Columns: 2~9
	When selecting Custom , you can custom the rows and columns

	of the grid
	Color: Red, Green, Blue, Black, White, Gray
	The area of the picture can be divided into 4, 9, 16, 25, 36, 49, 64,
	81 equal grids.
	On, Off
	Mode: 80%, 85%, 90%, 93%, 96%, 2.35:1,9:16
Safe Frames	Color: Red, Green, Blue, Black, White, Gray
+	On, Off
Center Marker	Color : Red, Green, Blue, Black, White, Gray
	On, Off
	Mode: 4:3、13:9、14:9、15:9、16:9、1.85:1、2.35:1, 9:16
Ratio Marker	Color: Red, Green, Blue, Black, White, Gray
	Modified Mark : 0~5



Scan Mode	Under Scan, Over Scan
	Auto, 16:9, 16:10, 4:3, 5:4, 1.85:1, 2.35:1, Full Screen
	Provides a wide variety of aspect ratio to match different camera
Aspect Ratio	anamorphic lenses.
	On, Off
	Mode: 1.33X, 1.6X, 2.0X, 2.0X MAG, User
Anamorphic	Under the User , can be customized $(1.20X \sim 2.00X)$
	Allows you to use anamorphic lenses or adapters and see the

	image unsqueezed, even if your camera does not de-squeeze in
	camera.
Image Flip	On, Off Mode: H Flip, V Flip, H_V Flip
	On, Off
€	Mode: 2X、4X、9X、16X、User
Zoom Mode	Under the User , can be customized (100%~200%)
	It is HD signal in any part, an amplification for high quality close-up.
\bigcirc	On, Off
Image Freeze	
	On, Off
	Enable the filmmaker to check the image from the 1:1 signal source
P2P	without scaling. This feature is essential for capturing optimum
	detail.

User Option

	On, Off
	After the LUT Switch is turned on, you can use the Lut
	(SLOG2, SLOG3, LOGC, VLOG).
LUT	Lut Import: Confirm
	Lut Table
	Show the 4 built-in Lut and the custom load Lut (up to 32)
	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
	On, Off
HDR	Mode: HLG1, HLG2, HLG3
HDR	HDR can provide more dynamic range and the details of
	image, it is better to reflect the visual effects in the real
	environment.
]	Backlight: 0~100
	Adjust the screen brightness
Display Adjustment	Brightness: 0~100
	Adjust the image brightness
	Contrast: 0~100
	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
	Tint: 0~100
	Color Temp.: 5600K, 6500K, 9300K, User
	Under the User , the red, green and blue of the image can be
Color Adjustment	adjusted (0~255), made the colors of the image achieve your
	favorite.
	All Waves, Waveform, Vector, Histogram, Embedded Audio,
F	Center Marker, Safe Frames, Grid, Focus Assist, False Colors,
	Over Exposure, Anamorphic, Image Freeze, Check Field,
Shortcut Key	Zoom Mode, Image Flip, Aspect Ratio, Ratio Marker

	To set the 3 shortcut custom button F1~F3 on the panel
	e.g.: Double click the screen to enter the main menu, then click
	User Option and select 🕞 shortcut key , then click F1 to
	show pop-up function items, select one of them, such as All
	Waves. The cursor will be changed to gray color after selected.
	Directly press F1 button of monitor panel to open All Waves
	Same setting for F2~F3
	Volume, Backlight
Left Right Key Set	

Syste	<u>m</u>
۲Ā	User Switch: 1~4
	you can save the set menu as 1-4 and can be called directly next
User Switch	time
	English、简体中文、Español、Português、Français、Nederlands、
	Deutsch、日本語、繁體中文、한국어로、русский язык
Language	
OSD OSD Option	OSD Time: Off, 15Sec, 30Sec, 45Sec
	Select the display time of the menu on the screen
	OSD Trans: Off, 25%, 50%, 75%
	Adjust the transparency of the menu picture background on the
	screen
	No Signal: Red, Green, Blue, Black, White, Gray
	Can be change the background color of screen when no signal
\	On, Off

	0~100
Volume	Adjusting the speaker volume
C	Select Reset and press MENU button Confirm , the system back
C	to original setting.
Reset	
	Firmware Version (display the version number)
	Firmware Update
Firmware Update	Confirm
	How to upgrade?
	1. USB flash driver format
	Support FAT32
	2. After copying the update file to USB flash driver insert to
	Type-C to USB adapter and connect with the TYPE-C interface of
	monitor , press MENU key Confirm to update.
	3. The monitor will turn off automatically after finishing, please turn
	on manually
	4. Check the firmware version whether the latest one

5. How to Load LUT

- 5.1 USB flash driver format FAT32
- 5.2 Max Files Limit Maximum 32 Lut files
- 5.3 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

5.4 Steps for loading

5.4.1 Make sure USB flash driver insert to Type-C to USB adapter and connect with the TYPE-C interface of monitor

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 -- click Confirm, the imported LUTs will be clear up.

Panel Size	5.5" touch screen
Resolution	1920 × 1080 pixels
Dot Pitch	0.069 (H) × 0.069 (V) mm
Aspect Ratio	16:9
Brightness	1600cd/m ²
Contrast	1000:1
Viewing Angle	80°/80°(L/R) 80°/80°(U/D)
Backlight	LED
Adjustable Backlight	Yes
Input	HDMI
Output	HDMI
	3.5mm stereo headphone jack

6. Technical Parameters

	DC IN 12V, Barrel (5.5mm outer, 2.1mm inner)
Power In	DC IN 5V (Type-C)
	Note: please use 5V/2A or more than 2A Type-C power
	supply
	DC OUT 8.4V, Barrel (5.5mm outer, 2.1mm inner)
Power Out	DSLR or mirrorless camera)
	480i/576i/480p/576p
	720p (60/59.94/50/30/29.97/25/24/23.98)
HDMI Input/ Output	1080i (60/59.94/50)
Support Format	1080p (60/59.94/50/30/29.97/25/24/23.98)
	3840×2160p (30/29.97/25/24/23.98)
	4096×2160p (24Hz)
Power Input Voltage	7~24V
Power Consumption	≦9W
Unit Size (mm)	148Lx93Hx21.75D (mm)
Unit Weight	245g (with F970 external install and power kit)
Mount Points	1⁄4-20 thread points
Working Temperature	-20℃~50℃
Storage Temperature	-30℃~60℃

7. Trouble Shooting

7.1 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.

7.2 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.

7.3 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.