10.1″ 3D LUT Touchscreen Monitor

Daylight Viewable|F970 Install and Power Kit

4K | Ultra-Bright
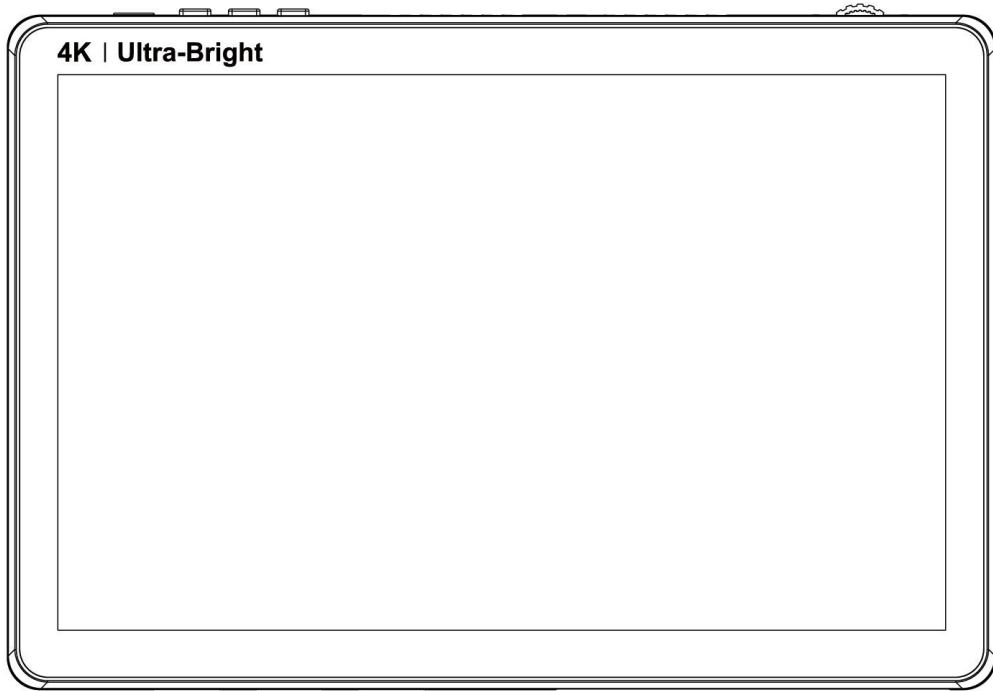
User Manual

Foreword

Thank you for purchasing our 10.1-inch Full HD touch screen monitor. Please read this manual carefully before using the unit. Have a great experience!

CAUTION

1. Please avoid the heavy impact and drop onto the ground when move the product.

2. The screen of this product is made of glass.Keep away from injury if the screen is broken.

3. Keep the product away from the heat source, and avoid the prolonged exposures to the sun as the LCD screen will be damaged.

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. No adjustable components are in the monitor. Please do not take apart or repair the unit by yourself, to avoid the damage of the product.

Key Features

● 10.1-inch 1920x1200 full HD IPS screen

● Touch screen menu operation, improve shooting efficiency

● 2000nits daylight viewable (Light Sensor)

● New menu interface, more intuitive and intelligent

● Dual HDMI inputs support up to 4K@60Hz, 3G-SDI (optional)

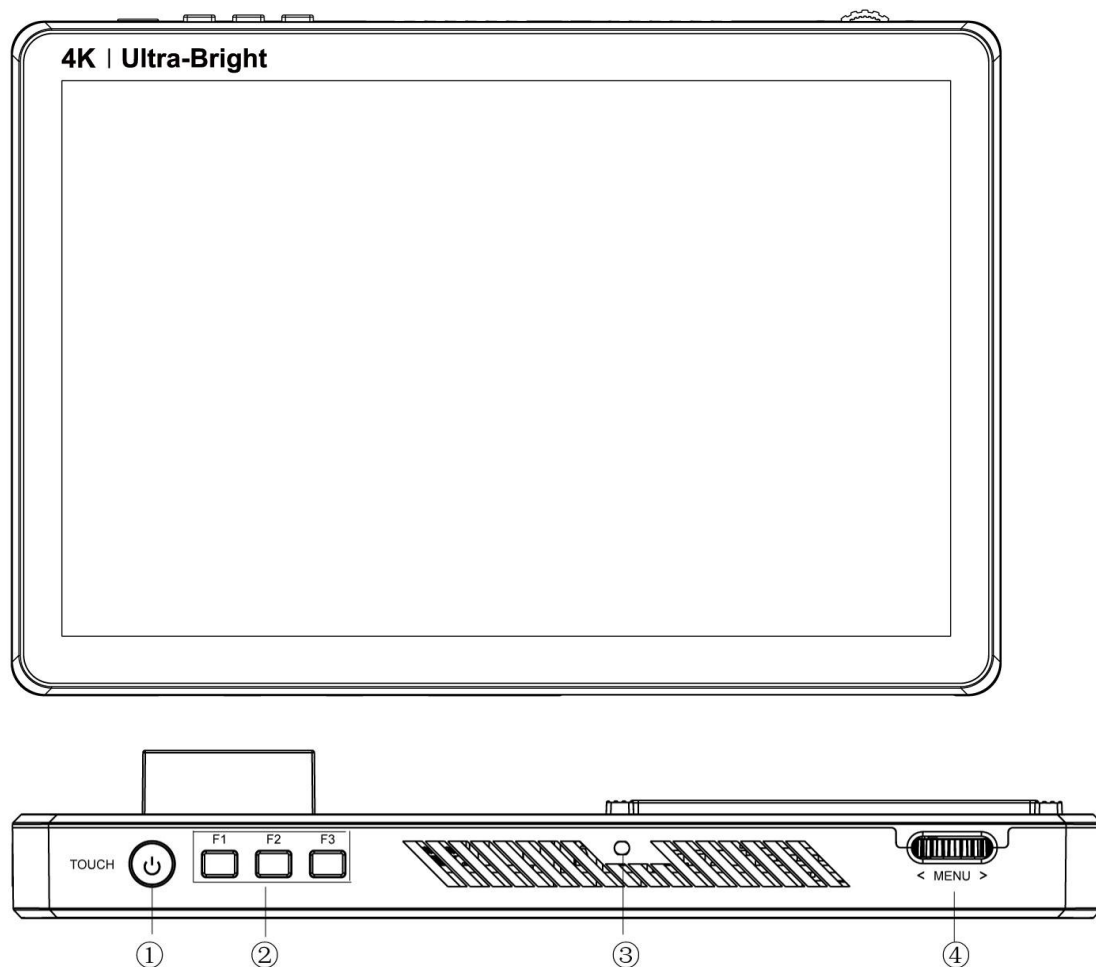● Support HDR monitoring, what you see is what you get

- Support 3D LUT Log to REC.709 and user 3D LUT upload(up to 50)
- 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, Histogram, Focus Assist, Monochrome etc. functions, can help you accurately exposure and focus every shot.
- Stereo Earphone output
- DC 8V power out to power your DSLR camera or mirrorless camera
- Built-in Tally Indicators (Red, Green, Yellow)
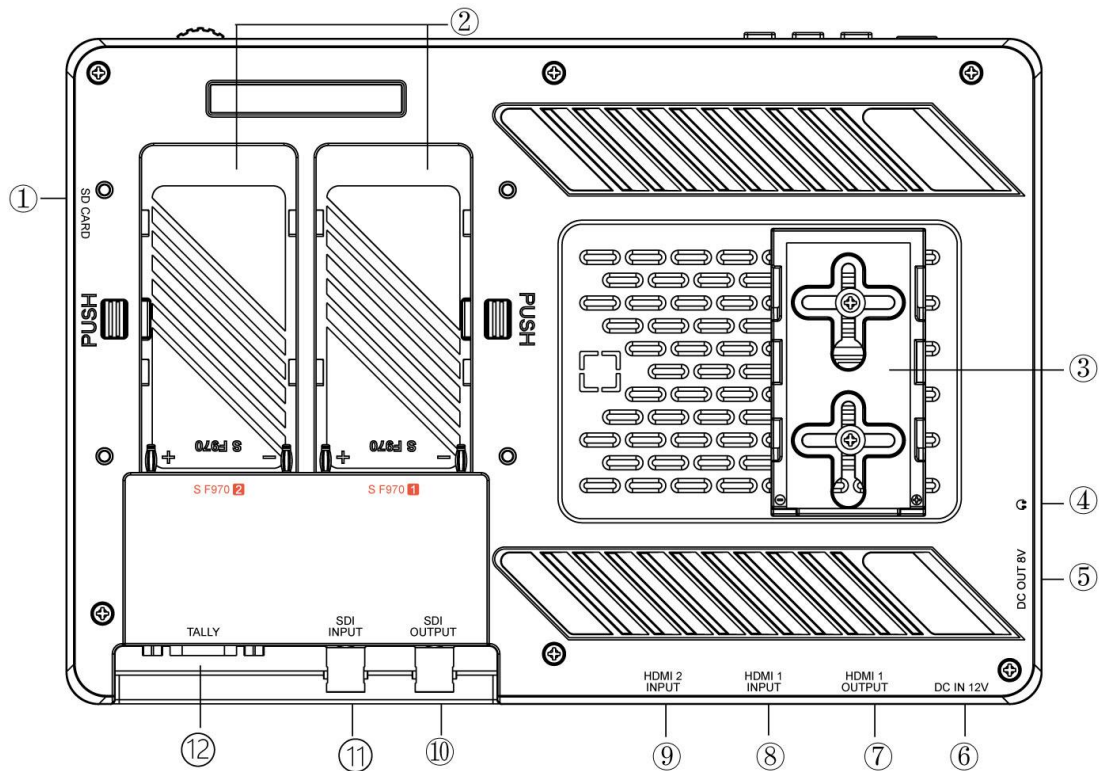- Dual F970 battery slots

CONTENTS

1. Product Description

1.1 Button Instruction

①. Power/Touch Function Button：Long press to turn on/off power; short press to turn on/off the screen touch function.

②. **F1 ~ F3:** Custom function buttons

③. **Light Sensor:** The backlight mode under the icon is set to Auto, and the brightness of the backlight can be adjusted automatically by the light sensor.

④. **MENU:** See details: **2.2 MENU Wheel Menu Operation in 2. Menu Operation Instruction.**

1.2 Port Instruction

①. SD Card Slot

3DLUT upload via SD card and for firmware upgrade

②. Power/Touch Function Button

Long press to turn on/off; short press to turn on / off the screen touch function.

③. F970 External Install and Power Kit

④. 3.5mm Headphone Jack

⑤. DC OUT 8V Power Output

Connect the optional dummy battery cable to power camera.

⑥. DC 12V Power Input

⑦. HDMI Signal Output

⑧. HDMI Signal Input 1

⑨. HDMI Signal Input 2

⑩. SDI Signal Output (optional)

⑪. SDI signal input (optional)

⑫. Tally Light Input

1.3 Power Supply Way

(1) The rear cover of the monitor is equipped with dual 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

Remark: It is recommended to use standard original F970 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.

 ●Battery switching instruction

➢ When the battery/batteries is/are placed in the battery slot(s), battery icon will appear on the upper right of the screen.

➢ White battery icon: working; Gray battery icon: not working.

➢ Manually switching: Double-tap the gray battery icon and it will be switched to a working state in about 3 seconds, then it will be turned white.

➢ Automatically switching: Automatically switch to another charged battery when one battery is exhausted.

(2) **DC IN 12V:** DC power input, polarity as the input power
 , Barrel (5.5mm outer, 2.1mm inner) at the bottom of the monitor, DC 7~24V Input.

(3) **DC OUT 8V:** DC power output interface, polarity as the output

power ![barrel connector polarity symbol: minus, circle, plus]

Barrel output for powering your camera with a separately

available DC coupler via adaptor (NP-FW50 Sony & LP-E6

Canon&DMW-BLF19 Panasonic). More adapters coming soon.

1.4 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.
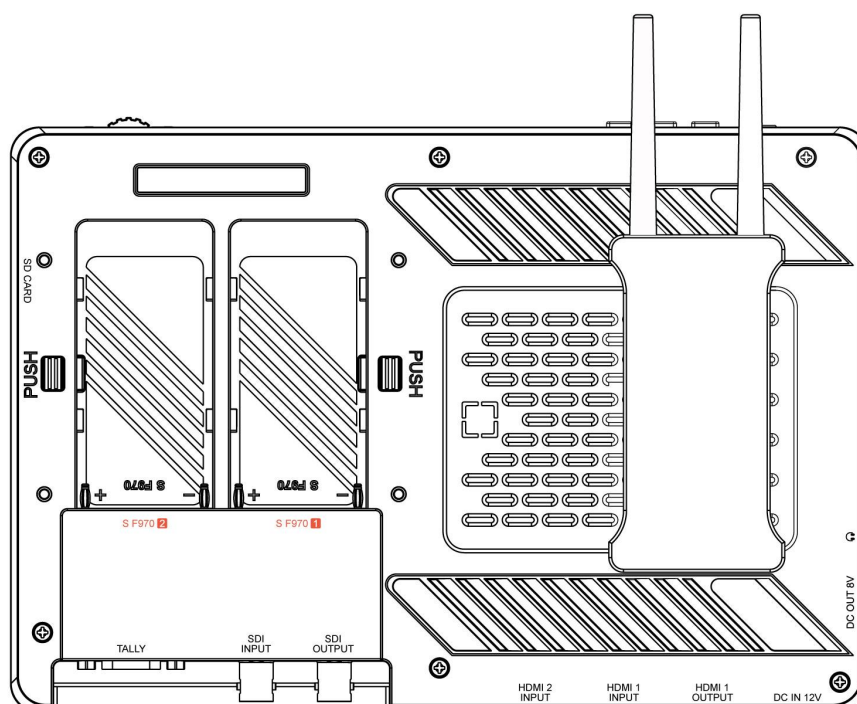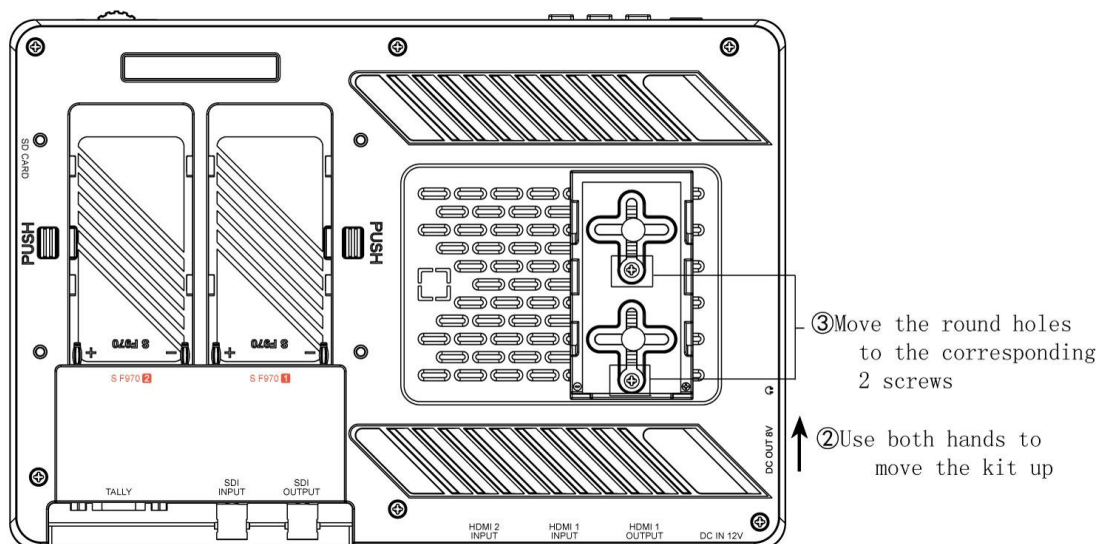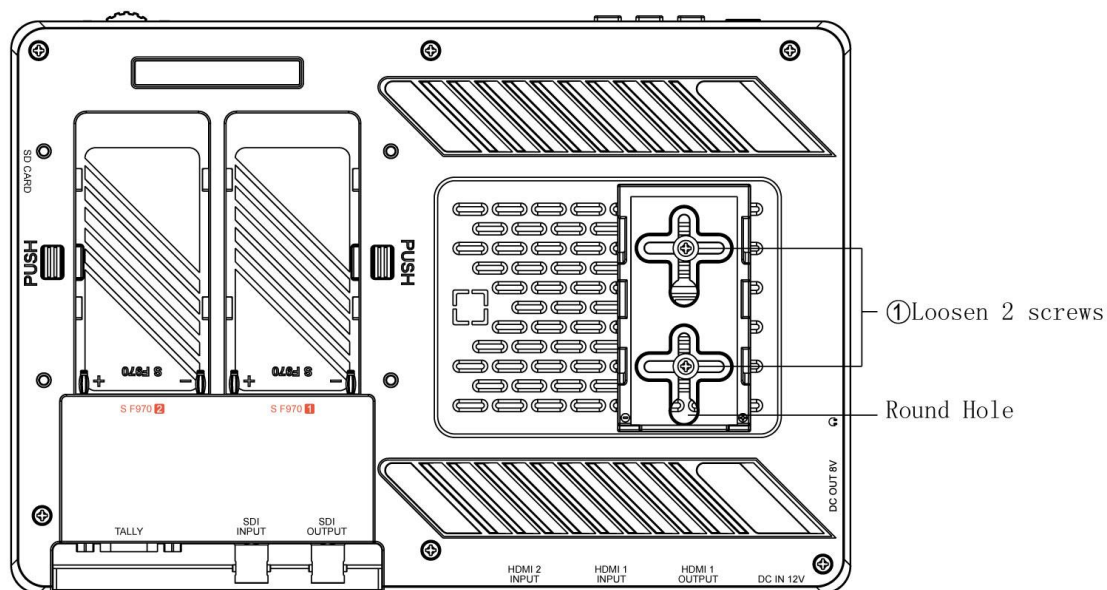
(1) Just move the kit: Loosen 2 screws, and then adjust up / down / left / right.

(2) 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.
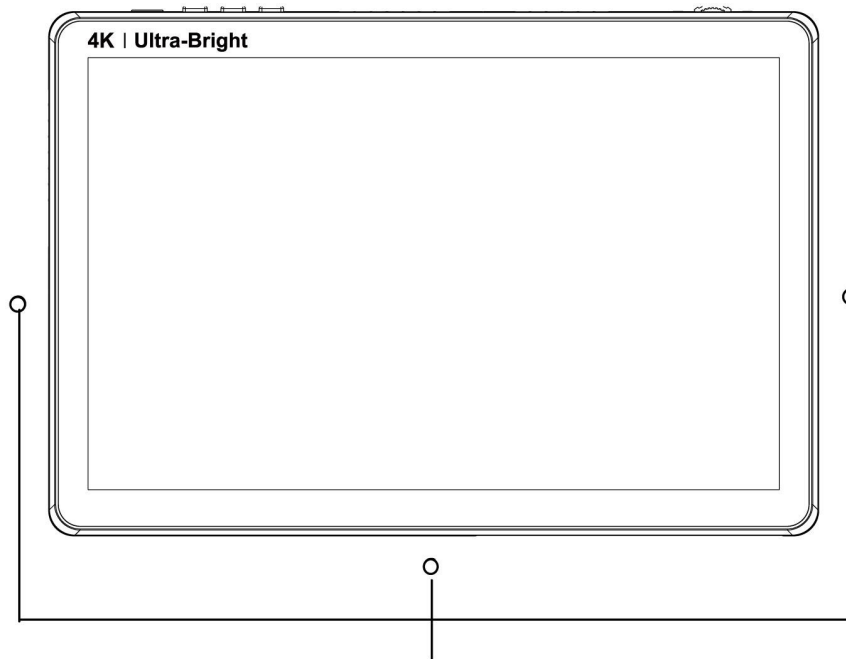
   (You can also install the kit upside down.)

④. Then gently lift the kit upwards and carefully disassemble the 2P power cord.

⑤. Then remove the 2 screws.

1.5 Mount Points

There are (3) ¼-20 thread points (bottom, right & left) can be easily connected to the hot shoe mount, tripod fixed installation.

(3) ¼-20 thread points

U-shape Bracket Mounting

1.6 TALLY Indicator Connection
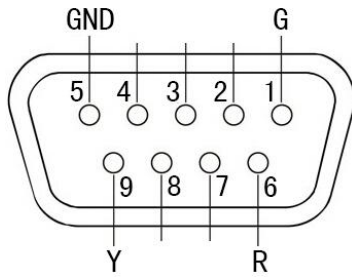
Indicator Color	Pin connect
Green	1-5
Red	6-5
Yellow	9-5

2. Menu Operation Instruction

After the monitor is properly connected to the power supply, the ⏻ button display(red indicating). Long press ⏻ button to turn on the monitor and turns yellow indicating. After the signal is connected, the ⏻ button turns green indicating.

After startup, short press ⏻ button to select to turn the screen touch function on or off.

2.1 Touch Screen Menu Operation (turn on the screen touch function)

①．Double-click on the screen to open the main menu (show 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 on the corresponding

menu box to open or set the corresponding function. Click ⌄

the hide icon to close detailed parameters, and click

▤ the menu icon to display detailed parameters.

③．When the menu is not displayed, 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:
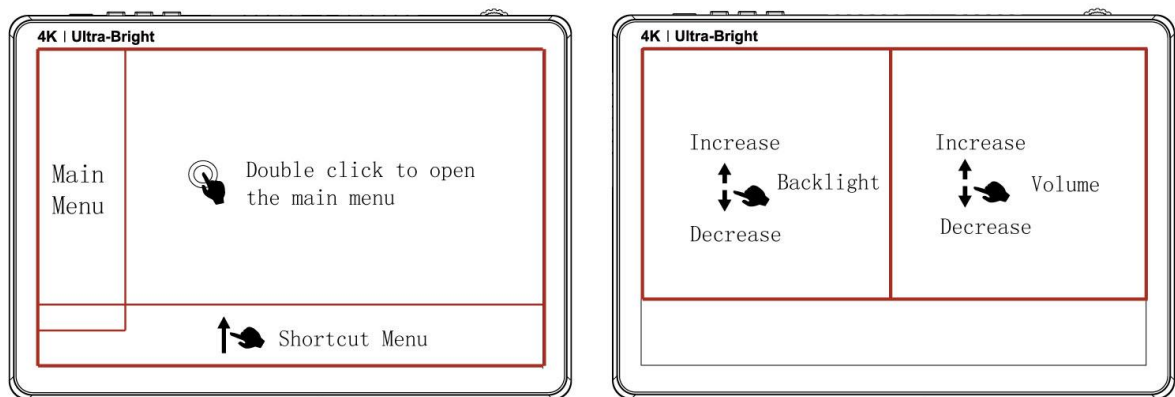
2.2 MENU Wheel Menu Operation

①．When the menu is not displayed, directly rotate the wheel to backlight or volume adjustment. The wheel option can be set to backlight or volume in the menu ⚙.

②．Short press the MENU wheel to open the main menu (on the left side of the screen). Rotate the wheel to select the secondary function menu. After selecting it, press the wheel, then rotate the wheel to select or set the option function.

③. Long press the MENU wheel to open the shortcut menu (below the screen), rotate the wheel to select the shortcut menu option, press the wheel to directly turn on/off the function, if you press the parameter selection, repeat the above operation. Tap the screen or long press the wheel to exit.

2.3 MENU UI Instruction

3. Menu Function Instruction

 Assist

	Analysis	**OFF, ON** After turning on, waveform, vector, histogram and

		embedded audio will be shown.
	Waveform	**OFF, ON** **Type: 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.
	Vectorscope	**OFF, ON** Shows how saturated the image is and where the pixels in the image land on the color spectrum.
	Histogram	**Histogram: OFF, ON** **Y Histogram: OFF, ON** **RGB Histogram: OFF ON**
	Focus Assist	**OFF, ON** **Focus Color: Yellow, Magenta, Cyan, Red, Green, Blue, White** After turned on, the **Focus Level (1～8)** and **Focus Color** can be adjusted.
	Audio Meters	**OFF, ON**
	Zebra	**OFF, ON** After the Zebra is turned on, the **Zebra Value (0IRE～100IRE)** can be adjusted.
	Check Field	Monochrome Display: **OFF, ON** **Display Color: red, green, blue, gray**
	False Color	**OFF, ON** **Type: Spectrum, ARRI**
	Tally	**OFF, ON**

Marker

	OFF, ON
Crosshatch	**Type: 3x3, 4x4, 5x3, 5x5, 6x4, 6x6**
	Color: Yellow, Magenta, **Cyan, Red, Green, Blue, White**
Safe Areas	**OFF, ON**
	Marker Line Type: 70%, 80%, 90%, 16:9, 16:10, 4:3, 5:4, 1:1, 1.91:1.1, 4:5, 9:16: 1.85:1, 2.35:1
	Marker Line Color: Yellow, Magenta, **Cyan, Red, Green, Blue, White**
Crosshair	**OFF, ON**
	Marker Line Color: Yellow, Magenta, **Cyan, Red, Green, Blue, White**
Cinema Guides	**OFF, ON**
	Marker Line Type: 16:9, 16:10, 4:3, 1.85:1, 2.35:1, 2.41:1, 1.9:1, 5:4, 1:1.9
	Marker Line Color: Yellow, Magenta, **Cyan, Red, Green, Blue, White**
	After the Marker Mat is turned on, the **Marker Mat Alpha (0%, 25%, 50%, 75%)** can be adjusted.

Image

	Under Scan, Over Scan
Scan Mode	
	OFF, ON

Aspect Ratio	Type: **Auto, 16:9, 16:10, 4:3, 5:4, 1.85:1, 2.35:1, user**
	Under the "**user**", you can customize the **Video Width (100% ~ 300%)**, **Video Height (100% ~ 300%)**
Anamorphic	**Lens: OFF, ON**
	Lens Type: 1.25x, 1.33x, 1.5x, 2.0x, 2.0x mag
Mirror	**Mirror: OFF, ON**
	Auto Mirror: OFF, ON
	After turning on, the image will automatically adjust upside down.
	Horizontal Mirror: **OFF, ON**
	Vertical Mirror: **OFF, ON**
Zoom Times	**Image Zoom: OFF, ON**
	Zoom Times: 1.0x～5.0x
Freeze	**OFF, ON**
Pixel to Pixel	**OFF, ON**

User Options

HDR	**HDR: OFF, ON**
	Camera: After turning on, can choose Gamma and Gamut corresponding to the camera RED, ARRI, Sony, Canon, Panasonic, Fujifilm, Bolex, ,
LUT	**LUT Switch: OFF, ON**
	SDI Out (LUT) : OFF, ON (with SDI interface version)
	Under the SDI signal, you can choose whether to loop out the LUT after the LUT function is turned on
	LUT Import: OFF, ON
	After copying the 3D LUT file to the SD card and inserting it into the SD card slot, click **ON** or rotate the wheel to import the

		3D LUT file. (Up to 50) **Note:** the chip should be faced up when inserting the SD card, and press it after inserting to ensure that the SD card is fully inserted. **LUT List: display built in SLOG2, SLOG3, LOGC, VLOG and the custom LUTs**
	Display Setup	**Brightness: 0~100** **Contrast: 0~100** **Saturation: 0~100** **Hue: 0~100** **Sharpness: 0~100** **Backlight Mode: manual, Auto** Under "Manual", the **Backlight (1～100)** can be adjusted manually. Under "Auto", the backlight is automatically adjusted by the light sensor.
	Color	**Color Space: REC709, DCIP3, BT2020** **Color Temp.: 5600K, 6500K, 9300K, User** Under the "**user**", the **red**, **green**, and **blue** values of the image can be adjusted (0~255)

 System

	Wheel	**Backlight, Volume** After selecting the wheel option, you can click Backlight or Volume , or rotate the wheel to select one of the shortcut key to set it to the rotary wheel adjustment (when the menu is not displayed).
	Shortcut	F1 Function, F2 Function, F3 Function Shortcut List: Analysis, Waveform Type, Y Histogram,

		Audio Meters, Crosshatch Type, Marker Line Type, Crosshair, Monochrome Display Color, False Color Type, Focus Level, Zebra, Color Space, Color Temp., HDR, LUT Switch, Scan Mode, Aspect Ratio Type, Lens Type, Pixel to Pixel, Mute, Input, Freeze, Auto Mirror, Tips **Set the shortcut function** **e.g.:** Tap the menu 🔁 select **F1Function**, then select one of function on Shortcut List, such as "Analysis". So when you exit menu, you could press F1 directly on the front of panel to turn on "Analysis" function. Same setting for F2, F3
🔲	**Input**	HDMI1、 HDMI2、 SDI (with SDI interface version)
🌐	**Language**	**English**、中文、**Français**、**Tedesco**、**Italiano**、**Español**、日本語、한국、**Русский**
OSD	**OSD Setup**	OSD Time: always, 15s, 30s, 45s OSD Alpha: OFF, Lo, Mid, Hi
🔊	**Volume**	Mute: OFF, ON Volume: 0~100
⚡	**Power display**	OFF, ON After turning on, the battery level will be displayed in the upper right corner of the screen.
⬆	**Firmware Update**	**Firmware Update, Restore** After copying the update file to the SD card and inserting it into the SD card slot, you can click **Update** or rotate the wheel to update. **Note:** the chip should be faced up when inserting the SD card, and press it after inserting to ensure that the SD card is fully inserted. Restore: click **Restore** or rotate the wheel to restore the system.

4. Support Formats

SDI Input Support Format (SDI version)	720p (60/59.94/50/30/29.97/25/24/23.98)
	1080i (60/59.94/50)
	1080p (60/59.94/50/30/29.97/25/24/23.98)
	2048x1080i (60/59.94/50)
	2048x1080p (60/59.94/50/30/29.97/25/24/23.98)
SDI Output Support Format (SDI version)	720p (60/59.94/50/30/29.97/25/24/23.98)
	1080i (60/59.94/50)
	1080p (60/59.94/50/30/29.97/25/24/23.98)
HDMI Input/ Output Support Format	480i/480p/576i/576p
	720p (60/59.94/50/30/29.97/25/24/23.98)
	1080i (60/59.94/50)
	1080p (60/59.94/50/30/29.97/25/24/23.98)
	3840x2160p (60/50/30/29.97/25/24/23.98)
	4096×2160p (60/50/30/29.97/25/24/23.98)

5. Technical Parameters

Panel Size	10.1" touch screen
Resolution	1920 × 1200 pixels
Dot Pitch	0.113(W) x 0.113(H) (mm)
Aspect Ratio	16:10
Brightness	2000cd/m^2 (Light Sensor)
Contrast	800:1
Viewing Angle	85°/85°(L/R) 85°/85°(U/D)
Backlight	LED
Input	SDI (optional), HDMI
Output	SDI (optional), HDMI, DC OUT 8V
Audio	3.5mm Stereo Headphone
Power Input Voltage	7～24V
Power Consumption	≦28W

Unit Size	242Lx165Hx23D (mm)
Unit Weight	810g
Mount Points	(3) ¼-20 thread points (left, right, bottom)
Working Temperature	-10℃～50℃
Storage Temperature	-20℃～60℃

6. Trouble Shooting

6.1 Only black and white or monochrome picture:

① please check saturation, brightness & contrast adjustment.

② Please check "Monochrome" 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.

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 Earphone No sound

① 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.