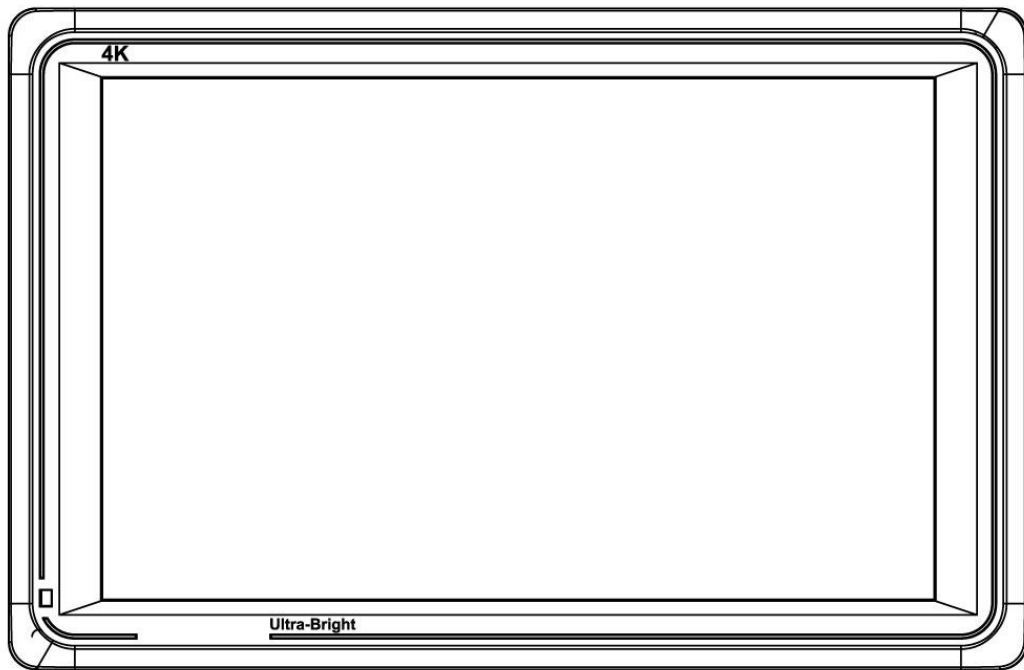


7" 2200nit Ultra Bright

Daylight Viewable Field Monitor



User Manual

Foreword

Thank you for using our 7- inch ultra high bright 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.
- 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 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.

Key Features

- Native 10-bit panel delivers 1.07B colors, enables smooth gradations and minimizes color banding for fine image details
- Equipped with 4K 60Hz HDMI, 3G-SDI (optional) input and output
- Load custom 3D-LUT, preview film look
- HDR monitoring, what you see is what you get
- With waveform, vector, histogram to help accurately analysis
- Analog stereo L/R, embedded audio display
- Focus Assist (Focus edge can be Red, Green, Blue)

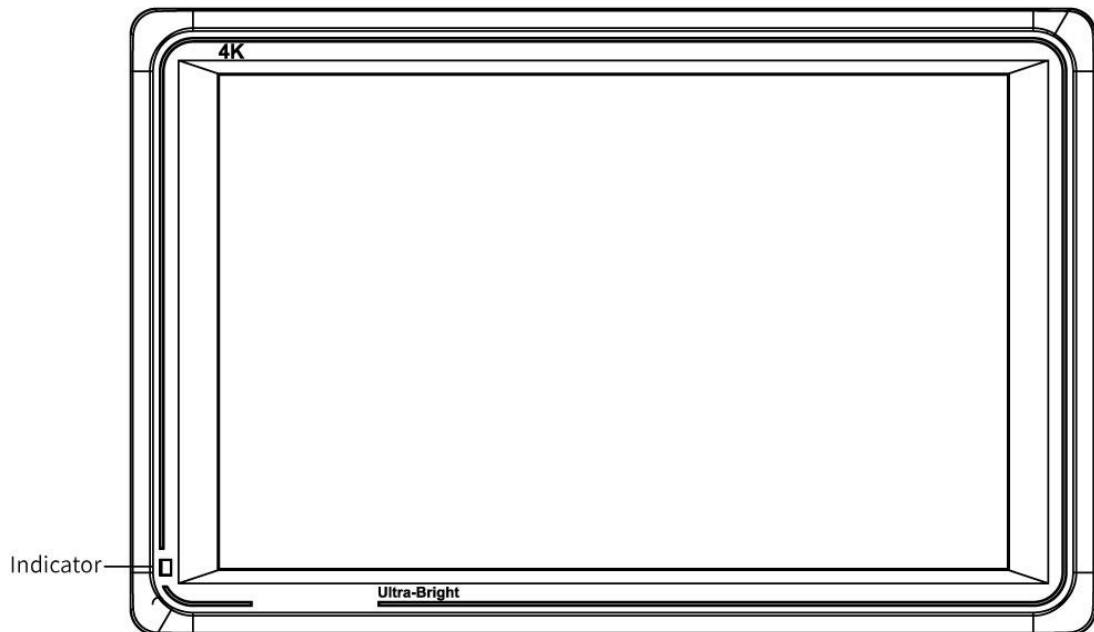
- Zebra and False Color function, convenient to guide the using light when shooting and the post production
- Check Field (Red, Green, Blue, Mono)
- Anamorphic Mode
- Image Flip (H, V, H/V)
- Image Freeze
- Image Zoom-in function.
- Pixel to Pixel
- Marker Types, Safe Frames and Center Marker
- Display 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, LP-E6, D28S, U60)
- Speaker and earphone output

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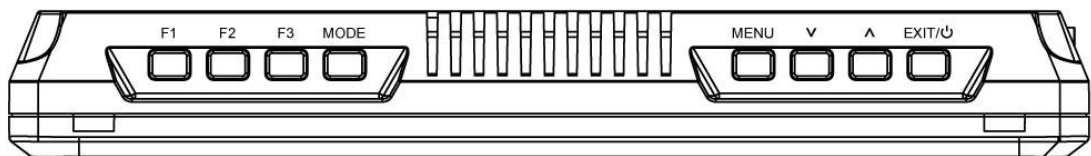
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1. Product Description

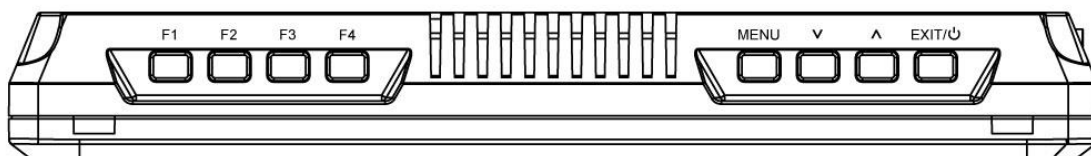
1.1 Front Panel/ Button Instruction



SDI Version:



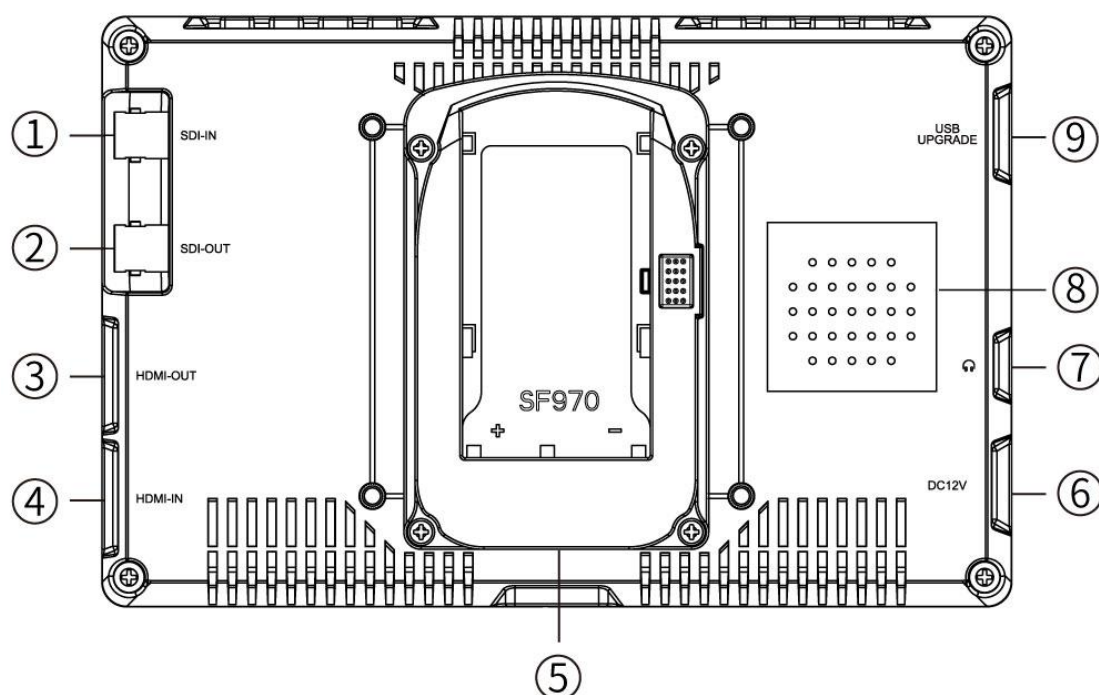
W/O SDI Version:



Button	Function when OSD is not displayed	Function when OSD is displayed
F1	Custom button F1	/
F2	Custom button F2	/
F3	Custom button F3	/
MODE	Signal input selection	/

(SDI Version)		
F4 (W/O SDI Version)	Custom button F4	/
MENU	Display OSD main menu	Confirm button
∨	Decrease the volume/back light value	Select next menu item; Decrease or adjust value of selected parameter
∧	Increase the volume /back light value	Select previous menu item; Increase or adjust value of selected parameter
EXIT/⏻	Power ON/OFF button; Menu Return/Exit button	

1.2 Rear Panel Instruction



①	SDI signal input (Optional) Note: No SDI version w/o this interface
②	SDI signal output (Optional) Note: No SDI version w/o this interface

③	HDMI signal output
④	HDMI signal input
⑤	F970 Battery plate
⑥	DC 12V power input interface
⑦	Earphone output port
⑧	Speaker
⑨	USB upgrade port/LUT upload

1.3 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.

CAUTION

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

2. Menu Operation Instruction

After correctly connect to the power supply (red indicator),the monitor default to turn on automatically, the indicator turns Yellow,

and then input HDMI signal, the indicator will turn Green from Yellow.

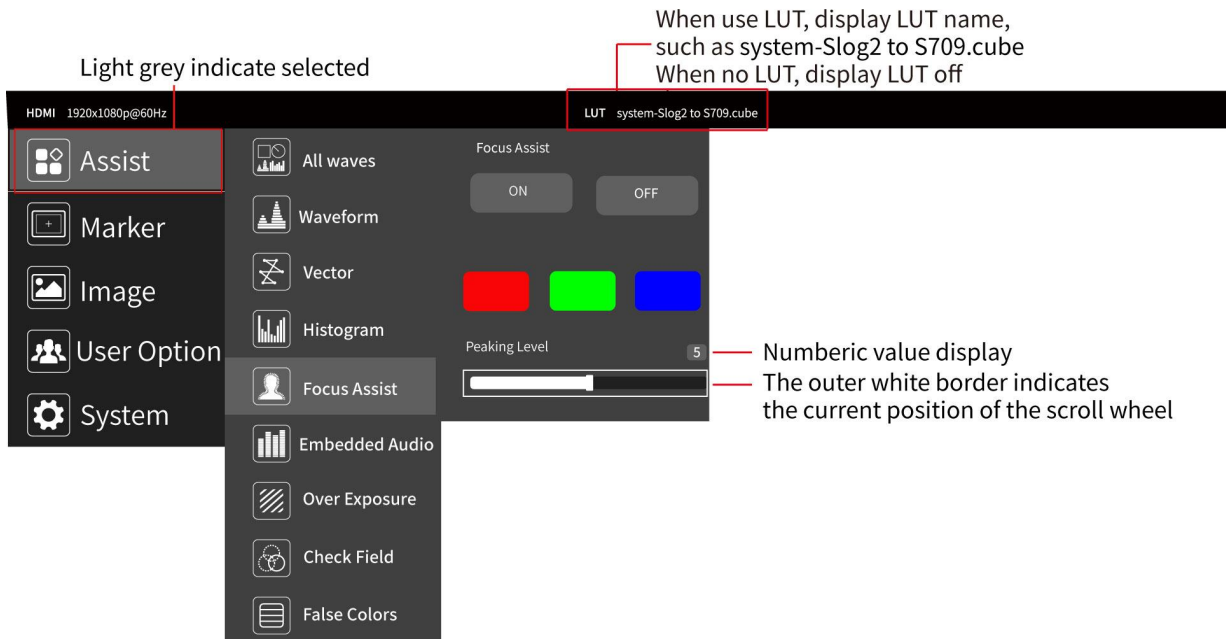
You can also set the power to Manually in menu **System--Power setting**. After setting, you need to long press EXIT/⏻ key to turn on the monitor when plug the power supply.

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 Position X: 0~100 (moving the waveform horizontally) Position Y: 0~100 (moving the waveform vertically) Waves Trans.: Off, 25%, 50%, 75% The waveform is a core tool for professional video production. It converts the brightness and color information of the frame into visual curves, enabling precise control of exposure, white balance and color balance, preventing overexposure, crushed

	blacks or color casts in the frame, ensuring the signal meets broadcast standards. It is ideal for scenarios with vary light, complex composition or cinematic video. The X-axis of the waveform monitor corresponds to the horizontal position of the frame (left to right), and the Y-axis represents the brightness level of each position, generally defined with black as the 0 line and maximum brightness as the 100 line. Luminance Waveform (Y) Display: A white/gray curve representing the overall brightness distribution of the frame. RGB Component Waveform Display: Independent red, green and blue channel waveform, presented side by side. YUV Waveform Separates color and luminance. Y represents the luminance signal, while U and V represent the blue-yellow and red-green chrominance signals respectively.
 Vector	On, Off Position X: 0~100 (moving the Vector horizontally) Position Y: 0~100 (moving the Vector vertically) The vector scope is a professional tool dedicated to analyzing and monitoring the color information of a frame. It visualizes color saturation (vividness) and hue (tone) via chrominance signals in a circular graph to quantify the color data of the frame, enabling precise judgment for cinematographers and colorists. It serves as a color calibration benchmark for professional scenarios such as film and television production, live streaming, and broadcasting.
	On, Off Mode: RGB1、RGB2、 Y

Histogram	Position X: 0~100 (moving the histogram horizontally) Position Y: 0~100 (moving the histogram vertically) RGB1 Histogram:Displays the brightness distribution of the red, green, and blue channels separately, designed to judge color casts, monochromatic over/underexposure, white balance, and color gradation. RGB2 Histogram:The red, green, and blue channels are overlaid on the same coordinate system, with overlapping areas showing mixed colors Y Histogram: A tool for objectively judging exposure and tonal distribution. Ideal for monitoring overall exposure to prevent clipped highlights and crushed blacks, assisting with precise lighting setup and post-production.
 Focus Assist	On, Off Color: (Red, Green, Blue) Peaking Level: you can adjust the peaking level after turning on (1 ~ 10) Highlights the in-focus areas of the image to help photographers quickly and accurately judge focus position during manual focusing. Especially ideal for fast moving video, portrait, etc.
 Embedded Audio	On, Off Position X: 0~100 (moving the audio level horizontally) Position Y: 0~100 (moving the audio level vertically) A visual audio level indicator tool for monitors that displays sound volume in real time and detects audio clipping (distortion). It resolves issues of being unable to hear audio while monitoring video or inaudible sound in noisy environments, ensuring audio-video synchronization and distortion-free recording. Ideal for live streaming, on-location shooting and filming in noisy settings.

 Zebra Pattern	On, Off Threshold Value: you can adjust the threshold value after turning on (10~100) A real-time exposure assist tool that highlights overexposed areas in the frame with striped patterns for quick identification of blown-out highlights, ensuring accurate exposure, ideal for video shooting, portrait photography and outdoor high-light scenarios.
 Check Field	On, Off Mode: Red, Green, Blue, Mono Eliminate color interference, focus on exposure, focus, contrast and single-channel signal quality, and quickly judge the picture's brightness gradation, edge details and color channel issues.
 False Colors	On, Off Mode: Normal, ARRI False Color is an exposure assist tool that maps the precise brightness value of every pixel in the frame to distinct colors corresponding to different brightness levels. It allows you to instantly check the exact exposure values across the entire frame and clearly visualize the light and shadow distribution of each specific area. Ideal for video shooting, portrait photography and outdoor shooting in complex lighting conditions.
 Time Code (SDI version)	On, Off Mode: LTC, VITC Consistent with the camcorder time-code, it consists of four sets of numbers representing hours, minutes, seconds and frames respectively. The time-code enables quick positioning of a specific frame in the video. In post-production multi-camera editing, video footage shot by different cameras at the same moment can be rapidly aligned via the time-code function,

	greatly saving post-editing time.
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Marker

 Grids	On, Off Mode: 2x2,3x3,4x4,5x5,6x6,7x7,8x8,9x9, Custom 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 A core auxiliary tool for professional shooting, primarily designed for rule-of-thirds composition and horizontal/vertical calibration. It divides the screen into equal grids of 4, 9, 16, 25, 36, 49, 64 or 81 cells for optimized framing, and the number of grid rows and columns is fully customizable.
 Safe Frames	On, Off Mode: 80%, 85%, 90%, 93%, 96%, 2.35:1, 9:16 Color: Red, Green, Blue, Black, White, Gray Prevent edge cropping of the frame, ensure subtitle/subject remain fully visible, and adapt to different playback devices.
 Center Marker	On, Off Color: Red, Green, Blue, Black, White, Gray
	On, Off

Ratio Marker	Mode: 4:3, 13:9, 14:9, 15:9, 16:9, 1.66:1, 1.85:1, 2.35:1, 9:16, 1:1 Color: Red, Green, Blue, Black, White, Gray Modified Mark: 0~5 Preview the target aspect ratio in real time, standardize framing, reduce post-production cropping, align shooting with the final footage ratio, and improve framing efficiency and footage precision.
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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 Match the shooting frame, eliminate picture distortion, and monitor precise composition to ensure the captured footage is restored without stretching or cropping in its original aspect ratio, adapting to various formats and creative requirements.
 Anamorphic	On, Off Mode: 1.33X, 1.6X, 2.0X, 2.0X MAG, User Under the User, can be customized (1.20X~2.00X) Paired with anamorphic lenses, this function restores the horizontally compressed shooting image to the normal aspect ratio on the monitor for real-time framing and proportion checking. It resolves the issue of image squashing and inaccurate framing when shooting with anamorphic lenses.

 Image Flip	On, Off Mode: H Flip, V Flip, H_V Flip This function resolves abnormal screen orientation caused by special monitor mounting angles (e.g., upside-down, side-mounted) or restricted shooting perspectives. It ensures a correct, upright viewing angle for the screen regardless of the monitor's mounting or shooting position, without interfering with monitoring, focusing or framing.
 Zoom Mode	On, Off Mode: 2X、4X、9X、16X、User Under the User, can be customized (100%~200%) Magnify the central area of the screen for precise focusing, detail inspection and image quality verification.
 Image Freeze	On, Off
 P2P	On, Off A display mode that maps the monitor's input signal pixel 1:1 to its physical screen pixels, presenting the signal with no stretching, no scaling and no cropping to fully restore the original resolution and fine details of the input signal. It is an essential function for precise focusing, image quality inspection and framing calibration. Note: This function is only available when the input signal resolution $\leq$ the monitor's physical resolution.



User Option

	On, Off
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LUT	After the LUT Switch is turned on, you can use the Lut (SLOG2, SLOG3, LOGC, VLOG). 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
 HDR	On, Off Mode: HLG1, HLG2, HLG3 HDR can provide more dynamic range and the details of image, it is better to reflect the visual effects in the real environment.
 Display Adjustment	Backlight: 0~100 Adjust the screen brightness 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 Adjustment

Display Range: Auto, Limit, Full

This feature allows for the selection of a grayscale range. The Limited grayscale range is 64~940, and the Full grayscale range is 0-1023. (Grayscale represents changes in image brightness, using varying gray levels to depict brightness in different image areas. In grayscale, brightness increases from black to white, typically denoted by a numerical range from 0 to 1023, where 0 signifies black and 1023 indicates white, and intermediate numbers indicate varying grayscale levels.)

1. If the dark part of the picture lost, the details cannot be seen clearly. For example, the input signal is in the range of 0-1023, but the monitor is set Auto or Limit, the brightness of 0-60 and 944~1023 is removed, resulting the dark part details unclear.

You can set to Full.

2. If the picture is gray, the black part turned gray. For example, the input signal is in the range of 64-940, but the monitor is set Full, resulting the black part turn gray. At this time, you can set to Auto or Limit.

Color Temp.: 5600K, 6500K, 9300K, User

Under the **User**, the red, green and blue of the image can be adjusted (0~255), made the colors of the image achieve your favorite.

Color Gamut: REC709, DCI-P3, Bypass

Rec.709 / DCI-P3: The monitor remaps the incoming signal to the selected target color gamut.

Bypass: Disables internal gamut mapping; outputs raw input signal without any color conversion.



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, Ratio Marker,

	LUT To set the 3 (SDI version) or 4 (w/o SDI version) shortcut custom button 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 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~F3 (F4)
 Left Right Key Set	Volume, Backlight



System

 User Switch	User Switch: 1~4 you can save the set menu as 1-4 and can be called directly next time
 Language	English, 简体中文, Español, Português, Français, Nederlands、Deutsch, 日本語, 繁體中文, 한국어로, русский язык, Italiano
 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
 EDID Settings	EDID Settings: 2.0, 1.4 Compatible with resolution of different camera/device Default to 2.0 (if set 1.4 manually, then input 4K60 signal, you need to set to 2.0 again)
 Volume	On, Off 0~100 Adjusting the speaker volume
 Power Settings	Power on: Auto, Manual Default to Auto. If set Manual, please press  key to turn on after the power plug in.
 Reset	Select Reset and press MENU button Confirm , the system back to original setting.
 Firmware Update	Firmware Version (display the version number) Firmware Update Confirm

5. How to Import Custom LUT

5.1. USB flash drive format

Supports 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 the USB flash drive correctly connect to the monitor via the accompanied mini USB to USB cable

5.4.2 Enter main menu **User Option--LUT-- LUT Import -- Confirm** to load

the monitor will auto detect the USB flash drive

If there is valid lut file in USB flash drive, 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 drive to the monitor, enter main menu **User Option--LUT-- LUT Import -- Confirm**, the imported LUTs will be clear up.

6. Firmware Update

We usually do not recommend to upgrade casually.If really need, please connect after-sale or other person to get the relevant upgrade file

- ①. Use a USB flash drive with FAT32 format. Copy the upgrade file to the USB flash drive, then insert it to the USB-A port of the mini USB to USB cable

- ②. Turning on the monitor, insert the mini USB to USB cable to the mini USB port of the monitor
- ③. Enter the menu, select **System--Firmware Update--Update**, click “Confirm” to start to upgrade
- ④. The monitor will shut down automatically when finished, please reboot manually
- ⑤. Check whether the latest version

Remark: Please keep the device is powered on in the whole upgrading

7. Technical Parameters

Panel Size	7" IPS
Resolution	1920x1080 pixels
Dot Pitch	0.027(H) x 0.081(V) mm
Color Display	1.07B
Color Depth	10bit
Color Gamut	97% DCI-P3
Aspect Ratio	16:9
Brightness	2200cd/m ²
Contrast	1500:1
Viewing Angle	88° /88° (L/R) 88° /88° (U/D)
Backlight	LED
Signal Input	3G-SDI (Optional), HDMI2.0
Signal output	3G-SDI (Optional), HDMI2.0
Audio	3.5mm Stereo Headphone, Speaker

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 Input / Output Support Format	480i/576i/480p/576p 720p(60/59.94/50/30/29/25/24/23.98) 1080i(60/59.94/50) 1080p(60/59.94/50/30/29.97/25/24/23.98) 4K 3840×2160p (60/50/30/29.97/25/24/23.98) 4K 4096×2160p (60/50/30/29.97/25/24/23.98)
Input Voltage	DC7~24V
Power Consumption	≤ 18W
Unit Size	185Lx120Hx25D (mm)
Unit Weight	365g/395g (With F970 Battery Plate)
Mount Points	1/4"-20 Thread Point (bottom)
Working Temperature	- 20℃ ~ 55℃
Storage Temperature	- 30℃ ~ 65℃

8. Trouble Shooting

8.1 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.

8.2 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.

8.3 No sound

- ① Check if Volume control does not open, try to increase the volume.
- ② Check the signal input source is normal or not.

■ 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.