



G7 Pro

**ON CAMERA Monitor
User Manual**



Product Information

Model: G7 Pro ON CAMERA Monitor
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About this manual

Important

The following symbols are used in this manual:

Tips

- The further information or know-how for described subjects above which helps user to understand them better.
-

Warning

- The safety matters or operations that user must pay attention to when using this product.
-

Contents

The user manual applies to the following device types:

- **G7 Pro**

The images and descriptions of G7 Pro are adopted as examples in the following document.

Before reading the manual, please confirm the device type.

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Chapter 1 Overview

G7 Pro is a high-performance On Camera Monitor to monitor professional up to 4K signals for outdoor shooting and on-site filmmaking.

The unit is designed in a high impact plastic frame, and the professional screen glass at full resolution of 1920x1080 with 3000nit brightness and displays 1,073 million colors. In addition, G7 Pro has a sensitive touch screen, excellent assistant functionalities, versatile build-in color profiles and easy to use. The monitor provides the highest 3D-LUT reproduction and can display fine skin tone, and HDR footage without banding.

The design accommodates various input and output interfaces, including HDMI and SDI, making it easy to connect with different cameras and devices, while also offering flexible power options. An intuitive user interface and touchscreen operation make settings adjustment and feature navigation simple and efficient, whether on a bustling shoot or in the studio.



Figure 1-1 A Diagram of G7 Pro

Features

- Support up to 4K HDMI input
- Support output to external cameras, such as SONY, Panasonic, Canon etc.
- Support high qualified waveform, vector scope, histogram and audio meter
- Support multiple assistants: zebra, focus assist, exposure assist, peaking adjustment
- Provide a sensitive touch screen as a smart and flexible navigation unit to switch among MySet pages and configure various settings
- Support NP-F series batteries
- Provide output DC power to the compatible cameras through USB-PD
- One-touch switch between monitor control and camera control.
- Built-in calibration makes on-location calibration easier than ever.

Functionality

- Provide versatile build-in color profiles, supporting camera logs for ARRI, BMD, Canon, DCI, EBU, FUJI, NIKON, Panasonic, RED and SONY, etc. And you can upload custom 3D LUTs through SD card and apply to on Camera monitor
- Support Anamorphic functionality in multiple modes: 1.25X, 1.33X, 1.4X, 1.5X, 1.6X, 1.65X, 1.79X, 1.8X, 1.9X, 2X
- Support Image ZOOM of 1~4X ratios, and to pan the image in every direction

Chapter 2 Safety

FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Warnings:

Read, keep and follow all of these instructions for your safety. Heed all warnings.

Warning

Device

- Install in accordance with the manufacturer's instructions.
 - Do not touch the screen with sharp, metallic or abrasive objects.
 - Do not make the freeze picture displaying on the screen time too long, otherwise, it will leave the afterimage on the screen.
 - If the brightness is adjusted to the minimum, then it might be hard to see the display screen.
 - Clean only with dry cloth.
 - Do not block any ventilation openings. Leave enough space around the unit for ventilation.
 - Do not expose to strong electrical or magnetic fields.
 - To reduce the risk of fire or electric shock, do not expose the unit to rain or moisture.
 - If the product needs replacement parts, make sure that the service person use replacement parts specified by the manufacture, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other damage.
 - The panel used in this produce is made of glass. Therefore, it can break when it is dropped or applied with impact. Be careful not to be injured by broken glass pieces.
 - Refer all servicing to qualified service personnel.
 - Specifications are subject to change without notice.
-

Warning

- Do not use attachments or accessories not recommended by the manufacture. Use of inadequate attachments may result in serious accidents.
- Do not damage the power cord, place the heavy objects on the power cord, stretch the power cord, or bend the power cord.

- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the unit.
 - Please remember that almost all HDMI cables do not use locking connectors and will simply pull out if they are jerked or tripped over. Please ensure your cables make a secure connection and avoid flexing them excessively to maintain reliability.
-

Chapter 3 Unpack and Installation

Unpack:

When unpacking the G7 Pro monitor, please verify that none of the components listed in Table 3.1 are damaged or missing. If there are any components missing, please contact your distributors or Osee for it.

Table 3-1 Packing List

No.	Item	Quantity
1	G7 Pro	1
2	USB-C to USB-C cable	1
3	D-Tap to DC power cable	1
4	Adjustable camera mount	1
5	QSG card	1

Installation:

1. Prepare for installation

Please follow the procedures below before installing G7 Pro:

- Check the package and equipment for any visible damage that may have occurred during transit.
- Confirm all the items listed on the packing list have been received.
- Remove all the packing material including electrostatic-resistant packing.
- Retain these packing materials for future use.

2. Connect required cables for signal input and output.

3. Connect the 6~17VDC power source through DC IN interface or powered by battery or USB PD power source(PD 9V/12V adapter or power bank).
4. As a final step, turn on the device by toggling the power switch located on the rear of the unit.

Install Battery:

Only support NP-F series battery currently. Swipe the battery down into the slot until heard a click.

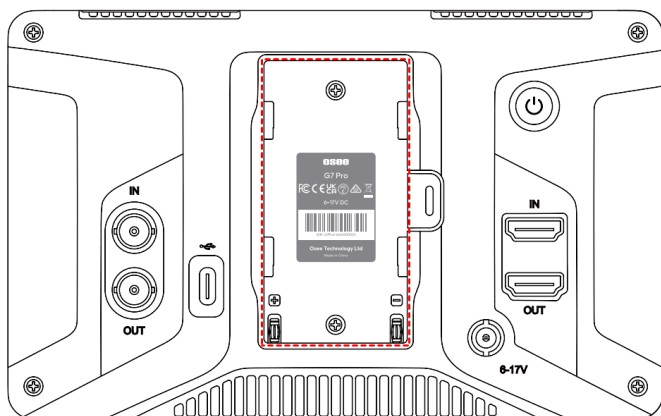


Figure 3-1 Battery Installation

Tips

- Connect a standard signal line to the relevant input port.

Chapter 4 Features

4.1 Parts and Functions

The parts of G7 Pro are illustrated below, there are various input and output interfaces for G7 Pro monitor, as shown in Figure 4.1-1.

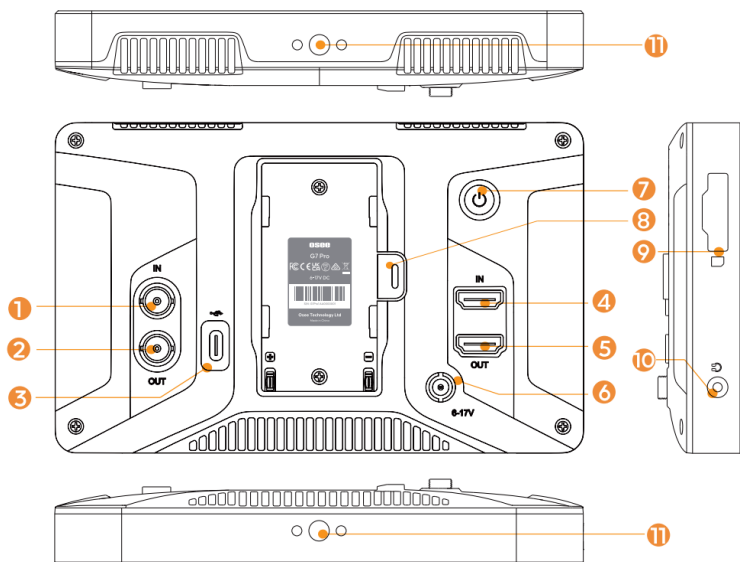


Figure 4.1-1 Parts in Rear Panel

No.	Connector	Description
1	SDI IN	SDI input interface

No.	Connector	Description
2	SDI OUT	SDI output interface
3	Control	USB-C, Color Calibration/ Camera Control/Power
4	HDMI IN	HDMI input interface
5	HDMI OUT	HDMI output interface
6	DC IN	DC power input, 6~17V 
7	Power button	Power on/off; lock/unlock screen
8	Battery Release	Release the battery from the battery slot
9		SD card slot, the SD card is used to load the customized LUT tables, and update firmware.
10		Headphone output jack, 3.5mm stereo Jack
11	Screws	1/4" Screw

* Support NP-F battery currently.

4.2 Touch Screen Operations

The monitor provides a touch screen, as shown in Figure 4.2-1. Here are the gestures you can use in this monitor: Tap, multi-touch, swipe left or right, swipe up or down, swipe and drag. These gestures allow you to

adjust monitor settings, add tools to MySets, configure tool settings, zoom in on images, and more.



Figure 4.2-1 Buttons in Front Panel

- Tap: To show/hide, switch, expand/collapse
- Multi-touch: Zoom&Pan
- Swipe left or right: To switch MySets
- Swipe up or down: To adjust backlight or volume

Direction	Operation
Tap	Without on-screen menu, single tap on the screen as a click operation, it will display the status bar at the top of the screen and the bottom row bar at the bottom of the screen. Then, tap it again to close these bars. When operating with a menu item, tap this item to switch its available options;

Direction	Operation
	When operating with a menu button or a button on a popup window, tap it to activate the corresponding command, such as return, menu expand or collapse, confirm, and so on.
Multi-touch	Place two fingers on the screen to stretch out or pinch in, thus to zoom the screen image out or zoom it in.
Swipe Left	In ZOOM editing mode, swipe left to drag the starting position of the enlarged image left; When operating a slide caliper, swipe left to decrease the item value. Without settings, slide left on screen to turn to the previous MySet.
Swipe Right	In ZOOM editing mode, swipe right to drag the starting position of the enlarged image right; When operating a slide caliper, swipe right to increase the item value. Without settings, slide right on screen to turn to the next MySet.
Swipe Up	In ZOOM editing mode, swipe up to drag the starting position of the enlarged image upward; Without on-screen menu, swipe up at the left side of the touch screen to increase the backlight; Without on-screen menu, swipe up at the right side of the touch screen to increase the volume.
Swipe Down	In ZOOM editing mode, swipe down to drag the starting position of the enlarged image downward; Without on-screen menu, swipe up at the left side of the touch screen to decrease the backlight; Without on-screen menu, swipe up at the right side of the touch screen to decrease the volume.

4.3 Power On

The power button is on the rear side of G7 Pro. Press it to power G7 Pro on or off.

■ Power Method

For various scenarios, G7 Pro offers multiple flexible and convenient power options as below:

Method 1:

When used with limited power outlets, battery power can be selected by inserting an NP-type battery into the battery slot, as shown in Figure 4.3-1.

Method 2:

With the included power cable to the 6-17V DC IN port or with a USB PD power source(PD 9V/12V adapter or power bank) to the USB-C port. As shown in Figure 4.3-1, Figure 4.3-2 and Figure 4.3-3.

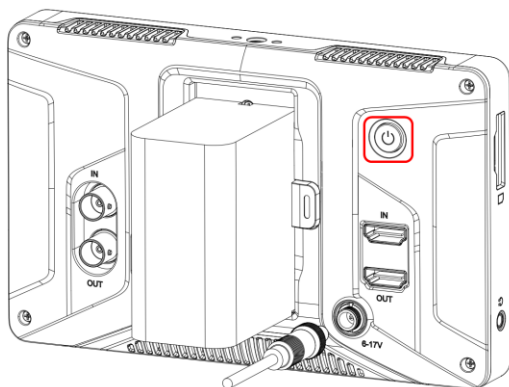


Figure 4.3-1 Power by Battery or DC IN

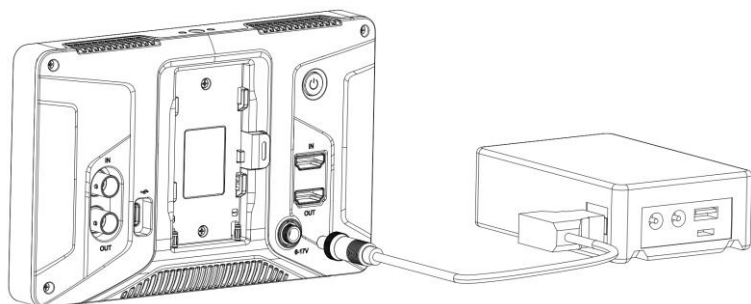


Figure 4.3-2 Power by Battery Bank through D-TAP Cable

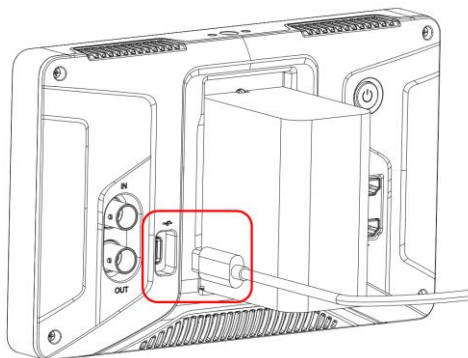


Figure 4.3-3 Power by Adaptor through USB-C Cable

■ Power On/Off Operation

First, install the battery or connect the power cable.

Second, press the power button to power it on, the device is powered on.

Then, press and hold the button for 4s to turn off.

■ Screen Lock & Unlock

Press the power button once after powered on, you can lock the screen. Then, press again to unlock the screen.

Once the screen has been locked, it can't allow any operation until being unlocked by press the power button again. Tap the screen, it will display a screen lock prompt on the screen, as shown in Figure 4.3-4.

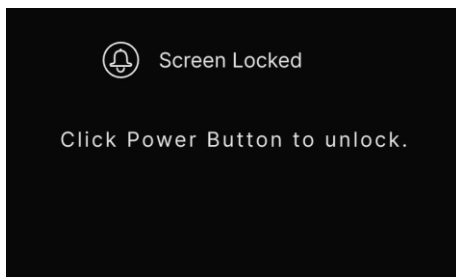


Figure 4.3-4 Screen Lock Prompt

Tips

- It will display the boot screen after power on for 3~4 seconds.
- The USB-C interface could offer a power output to your camera when amounting battery for G7 Pro. G7 Pro supports the PD power protocol. When using battery power and connecting camera control, if the camera also supports the PD power protocol, USB-C port can supply power to the camera. Additionally, USB-C port can serve as a third power option, besides DC IN and Batt IN, providing power to the monitor via a PD 9V/12V adapter or power bank.
- Only use the battery and the power cord specified by the manufacture for your safety!

4.4 ZOOM&PAN

You can get closer view to your image in ZOOM mode. Place two fingers on the screen to stretch out or pinch in, thus to zoom the screen image in or zoom it out.

It provides 1~4X zoom ratio, and you can move the starting position of the enlarged image by dragging the small rectangle in the zoom frame or just press and drag directly on the screen.

1. ZOOM

Zoom in: Place two fingers on the screen to stretch out, thus to zoom the screen image in.

Zoom out: Place two fingers on the screen to pinch in, thus to zoom the screen image out.

Tap on screen to display the zoom frame, as shown in Figure 4.4-1:

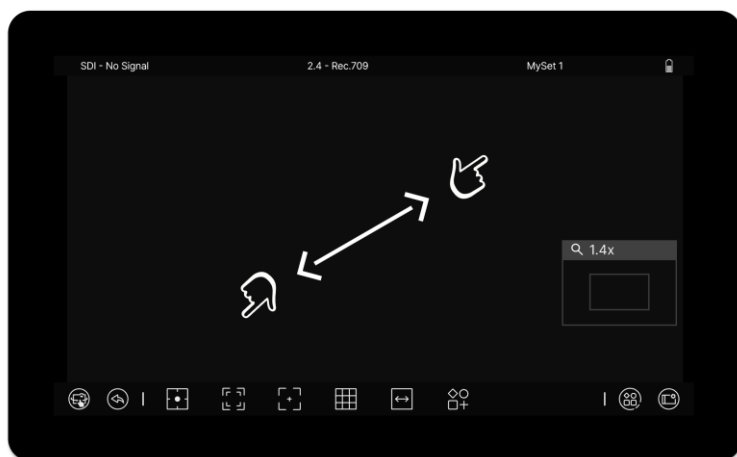


Figure 4.4-1 Zoom Frame

The zoom ratio displays in the title bar of the zoom frame.

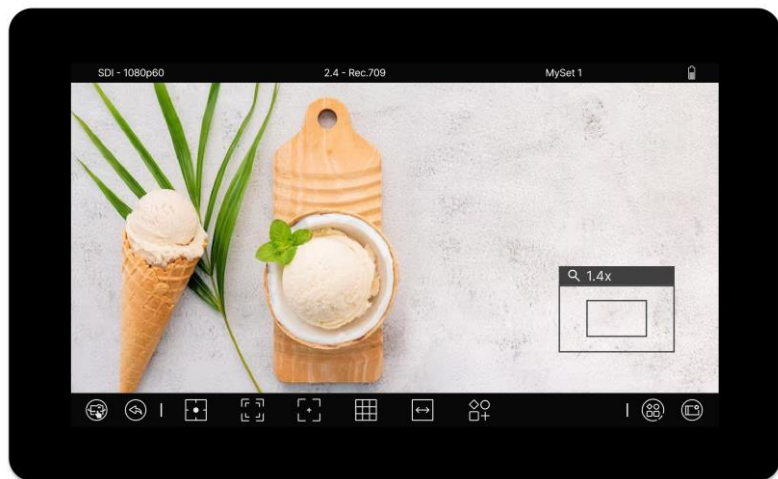


Figure 4.4-2 Zoom Frame

2. Pan Starting Position

There is a small rectangle in the zoom frame, as shown in Figure 4.4-3, it represents the current full screen image in the monitor, you can judge where this area is in the original image. Tap and drag it to move the starting position of the enlarged image in current zoom ratio.

Alternatively, you can simply press and hold on the touchscreen, then drag the image to your desired target location. This intuitive method allows you to precisely adjust the focus position.

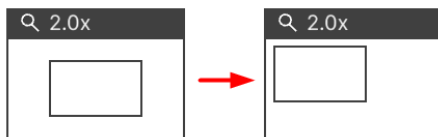


Figure 4.4-3 Zoom Mode

As the image zoomed in, pan the starting position of the image, as shown in Figure 4.4-4:

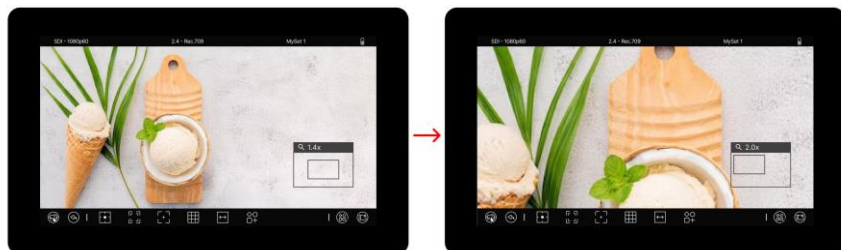


Figure 4.4-4 Zoom Editing Mode

■ Move around

Drag the small rectangle in the zoom frame left, right, up or down to pan the starting position of the image. Or press and hold on the touchscreen, then drag the image to your desired target location conveniently.

■ Original Image

Pinch in on screen until the zoom ratio is 1X, it will recover and display the original image, thus to exit zoom mode and close the zoom frame.

Or tap the Back button  on the left side of the Bottom Row Bar to instantly restore the display to its original 1.0X scale.

4.5 Supported Signal Format

The supported signal format for this device is as shown in Table 4.5-1:

Table 4.5-1 Supported Signal Format

Signal Format	HDMI	SDI
---------------	------	-----

Signal Format		HDMI	SDI
4KP	4KP30/29.97	√	
	4KP25	√	
	4KP24/23.98	√	
2160P	2160P30/29.97	√	
	2160P25	√	
	2160P24/23.98	√	
1080P	1080P60/59.94	√	√
	1080P50	√	√
	1080P30/29.97	√	√
	1080P25	√	√
	1080P24/23.98	√	√
1080I	1080I60/59.94	√	√
	1080I50	√	√
720P	720P60/59.94	√	√
	720P50	√	√

Chapter 5 Monitor Settings

The chapter describes the structure and functionality of the monitor settings, and introduces how to modify and customize the monitor settings.

Monitor menu contains the settings on input, backlight, volume, display rotate, status bar, LUTs, anamorphic, language, color management and so on, as shown in Figure5-1.

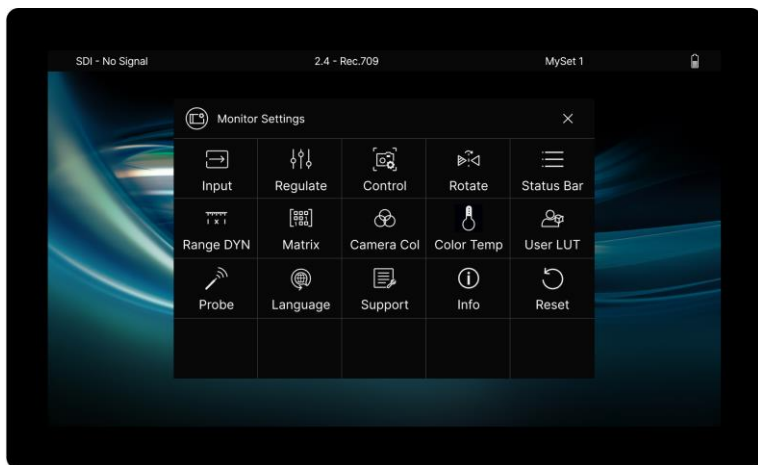


Figure 5-1 Monitor Settings Menu

The features on screen are as shown in Figure 5-2:



Figure 5-2 Tools for G7 Pro Monitor

And there could be multiple accessorial objects on screen, such as status display information, aspect area, safe area, crosshair, waveform, audio meter, histogram, focus assist, false color and so on.

Please refer to the relevant sections for the details in this chapter.

5.1 Menu Operations

Display Monitor Settings Menu

Tap the screen, the operation bar, called as Bottom Row Bar, will be displayed at the bottom of the screen. You can see this bar contains a set of areas, which are separated by vertical lines, including **Monitor/Camera Control**, **Return**, **Tool Bar**, **MySet Edit** and **Monitor Settings** from left to right, as shown in Figure 5.1-1:

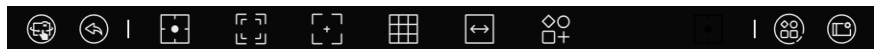


Figure 5.1-1 Monitor Settings Menu

The monitor settings icon is displayed at the bottom right corner. Tap on the monitor settings icon  to display the monitor settings menu on screen, as shown in Figure 5.1-2:

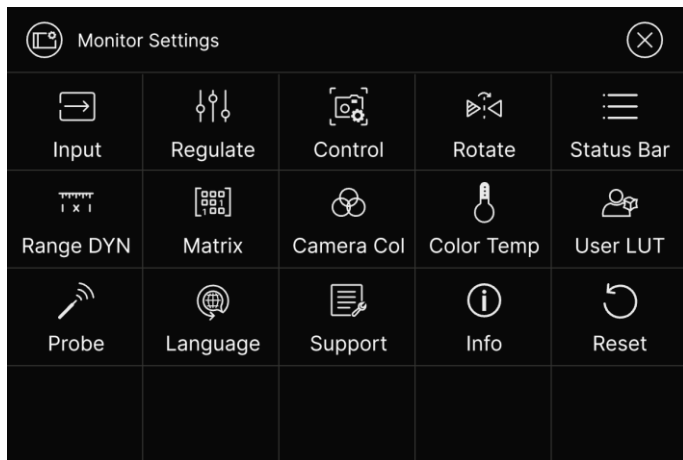


Figure 5.1-2 Monitor Settings Menu

The construction of Monitor Settings is as below:

Level 1 Monitor Settings Window

It lists all monitor items for monitor settings on this menu, including **Input**, **Regulate**, **Control**, **Rotate**, and so on.

Press each icon on this menu to navigate the items of the monitor settings. Tap one to select it, and it will display the corresponding setting menu.

Level 2 Monitor Menu Setting Window

The details of the selected menu item are displayed in a Level 2 setting window. You can check the parameters of the current menu item, as shown in Figure 5.1-3:

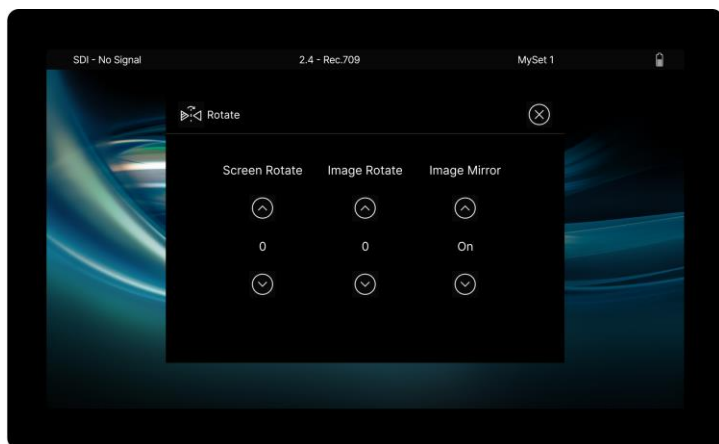


Figure 5.1-3 Monitor Settings Menu Item

Tap the Up or Down arrow to adjust the value.

Tap the close button to exit the current menu.

5.2 Monitor Menu

The following will introduce the contents and functionality of these menu items.

5.2.1 INPUT

The **INPUT** menu provides HDMI&SDI input, as shown in Figure 5.2-1:

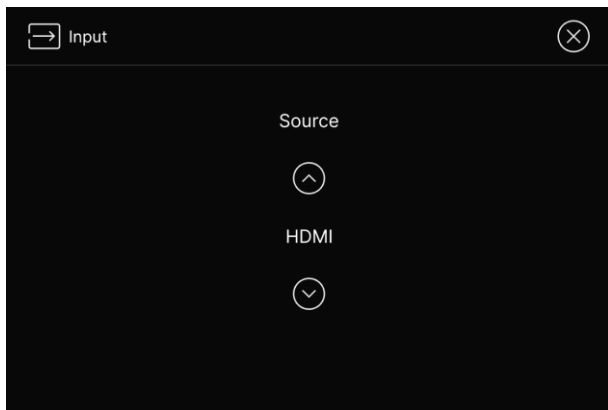


Figure 5.2-1 Input Menu

Table 5.2-1 Description of INPUT Menu

Menu	Item	Description
INPUT	HDMI/SDI	Select the input signal source

5.2.2 Regulate

The **Regulate** menu item is used to adjust the volume, backlight of the screen and control the fan temperature. The menu item is as shown in Figure 5.2-2:

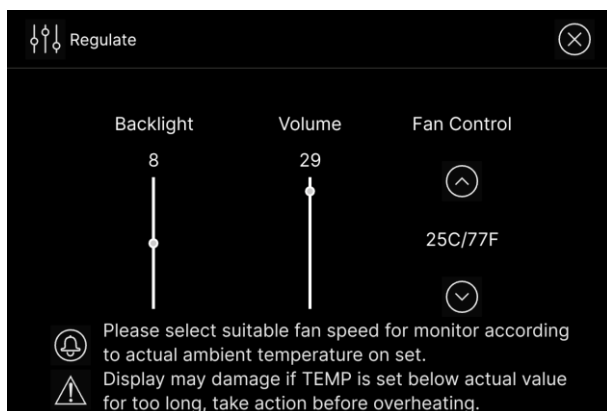


Figure 5.2-2 Regulate Menu

Table 5.2-2 Description of Regulate

Item	Default	Domain Range	Description
Backlight	5	0~10	Adjust the backlight
Volume	16	0~31	Adjust the volume
Fan Control	30C/86F	Auto/ 25C/77F 30C/86F 35C/95F 40C/104F	Set the ambient temperature according to actual working environment, in order to start the monitor fan in a proper speed in case of overheating.

■ Adjust Backlight

In order to adjust the backlight, you can execute it by tapping the **Backlight** item in monitor settings bar, besides, you can swipe up or down in left area on screen to increase or decrease the backlight.

As shown in Figure 5.2-3, swipe up to increase backlight, and swipe down to decrease it, the range is 0~10.

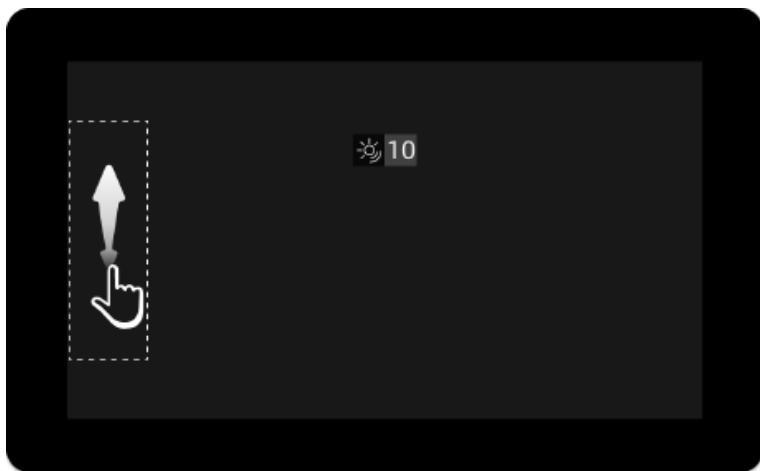


Figure 5.2-3 *Adjusting Backlight*

■ Adjust Volume

In order to adjust the volume, you can execute it by tapping the **Volume** item in monitor settings bar, besides, you can swipe up or down in right area on screen to increase or decrease the volume. As shown in Figure 5.2-4, swipe up to increase volume, and swipe down to decrease it, the range is 0~31.

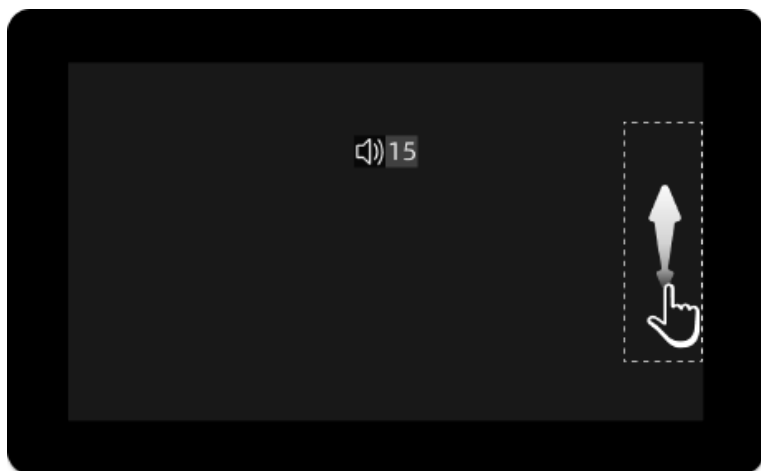


Figure 5.2-4 Volume Menu

■ Fan Control

The monitor supports fan control to adjust the device temperature. The actual fan speed depends on the combination of the current ambient temperature and backlight brightness. There are five gears (1~5 in increasing order) for the fan speed control, the higher the fan gear is, the faster the fan runs. The relationship is as shown in the table below:

AMBIENT BACKLIGHT	25°C/77°F	30°C/86°F	35°C/95°F	40°C/104°F
0~6	Off	Off	Off	1
7	Off	Off	Off	1
8	Off	Off	2	3
9	Off	1	3	4
10	Off	1	4	5

Select **Regulate**→**Fan Control** item to set the preset of ambient temperature for the monitor. Meanwhile, the monitor will run in a proper fan speed when you adjust the backlight. The relationship of the fan speed, ambient temperature and backlight brightness is as shown in the above table.

You can also set it to **Auto**, and the monitor system will adjust automatically.

Warning

- Display may damage if TEMP is set below actual value for too long, select a higher value for AMBIENT TEMP or shut the monitor down before overheating!

5.2.3 Control

Once your monitor is connected to a compatible camera and configured to control it, you can use this **Control** menu to adjust camera settings, as shown in Figure 5.2-5:

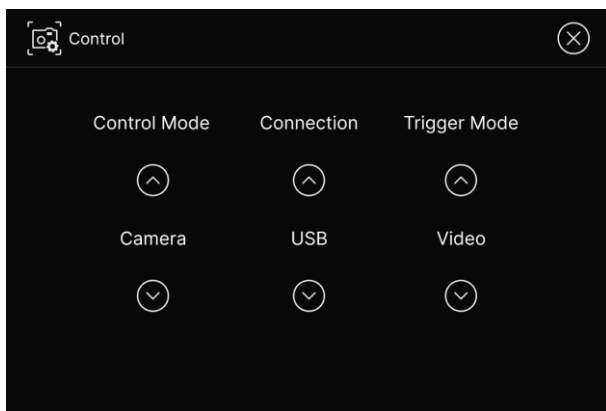


Figure 5.2-5 Control Menu

Table 5.2-3 Description of Control

Item	Default	Domain Range	Description
Control Mode	Camera	Camera/Off/Calibrate	Set the control mode
Connection	USB	USB/--	Select a connector
Trigger Mode	Video	Video/Photo	Set the trigger mode
Shutter	Speed	Speed/Angle	Select the shutter mode (Refer to your camera internal settings)
Overlay	Off	Off/On	Enable/Disable the overlay of the camera menu

5.2.4 Rotate

The **Rotate** menu is used to rotate image in vertical or horizontal direction, as shown in Figure 5.2-6:

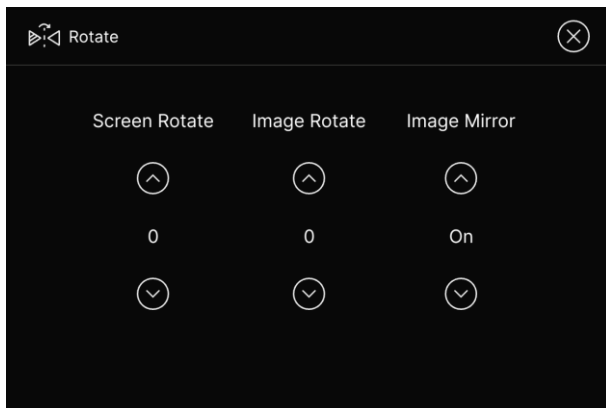


Figure 5.2-6 Rotate Menu

Table 5.2-4 Description of Rotate Menu

Item	Default	Domain Range	Description
Screen Rotate	Auto	Auto/0/180	Rotate the image and menus
Image Rotate	0	0/180	Rotate the image in vertical direction
Image Mirror	Off	Off/On	Rotate the image in horizontal direction

■ Display Rotate

Set **Screen Rotate** item to be **180**, **0** or **Auto**, the input image and on-screen menus will reverse vertically with the menus, as shown in Figure 5.2-7:



Original Image



Reverse Image

Figure 5.2-7 Vertical Rotate

■ **Image Rotate**

Set **Image Rotate** item to be **180** or **0**, only the input image will reverse vertically.

■ **Image mirror**

Set **Image Mirror** item to be **On** or **Off**, only the input image will reverse horizontally, as shown in Figure 5.2-8:



Original Image



Mirror Image

Figure 5.2-8 Horizontal Rotate

5.2.5 Status Bar

The **Status Bar** menu is used to set the information available in the status bar, as shown in Figure 5.2-9:

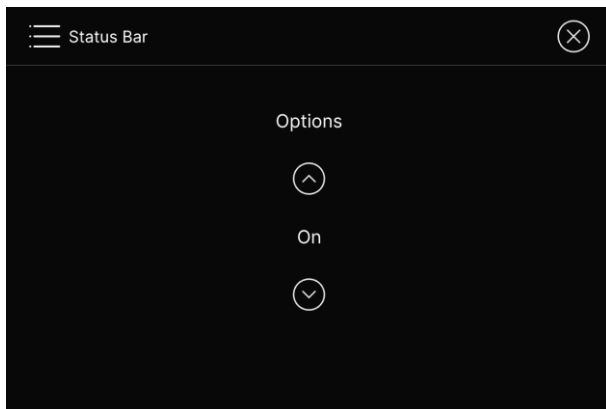


Figure 5.2-9 Status Bar Menu

Table 5.2-5 Description of Status Bar

Item	Default	Domain Range	Description
Options	On	Off/On/ Bat Only	Enable/disable the status bar at the top of the screen

■ Status Bar

Set **Status Bar** → **Options** item to be **On**, it will display the Status bar at the top of the screen, including these monitor information from left to right: Input source format, gamut, current MySet name and battery capacity indication.



Figure 5.2-10 Status Bar

■ Input Format

The **Signal Format** usually displays as the following situations:

- ☐ **No Signal:** appears if no signal is detected, or an unsupported signal is input.
- ☐ **Normal:** the signal format is displayed as HDMI 1080i59.94, etc. when the input is supported by the monitor.

■ Settings

- ☐ **On:** display the input channel, signal format, MySet ID and battery indicator (available only when the battery level is 11~17V);
- ☐ **Off:** turn off the status bar display;
- ☐ **Bat Only:** only display the battery indicator, and the illustrations are different according to the battery level as shown in the table below. When the battery capacity is running out, it will pop up a warning as shown in Figure 5.2-11, please replace the battery in time, and click **OK** to close this prompt. And it will display an DC/USB-PD indicator when powered by DC/USB-PD power input.

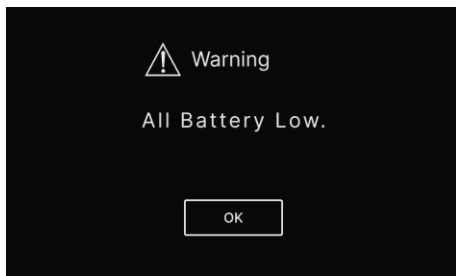


Figure 5.2-11 Battery Warning

Range of battery level	Illustration
100%	
90%	
80%	
70%	
60%	
50%	
40%	
30%	
20%	

Range of battery level	Illustration
10%	
0%, Nearly running out	
Powered by DC	
Powered by USB-PD	

Tips

- For the differentiation of battery providers, the illustrations and values for various battery levels in the above table are for reference only, please don't take it for granted and judge it as the real battery level!
- The content displayed in the status bar above corresponds to the monitor parameters. When switching to camera control via the bottom row bar, the relevant camera information will be displayed in the status bar. For more details, please refer to the camera control section later in this document.

5.2.6 Range Dynamic

The **Range Dynamic** menu item is used to set the Data and Dynamic Range as shown in Figure 5.2-12:

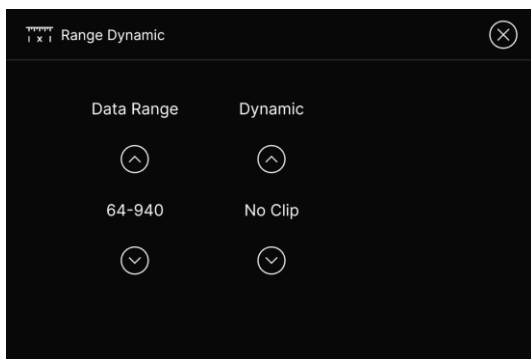


Figure 5.2-12 Range Dynamic Menu

Table 5.2-6 Description of Range Dynamic

Item	Default	Domain Range	Description
Data Range	0~1023	64~940/0~1023	Set data range
Dynamic	No Clip	No Clip/SDR Soft Clip/HDR Soft Clip	Set the dynamic range

5.2.7 Matrix

The **Matrix** menu is used to set color Matrix as shown in Figure 5.2-12:

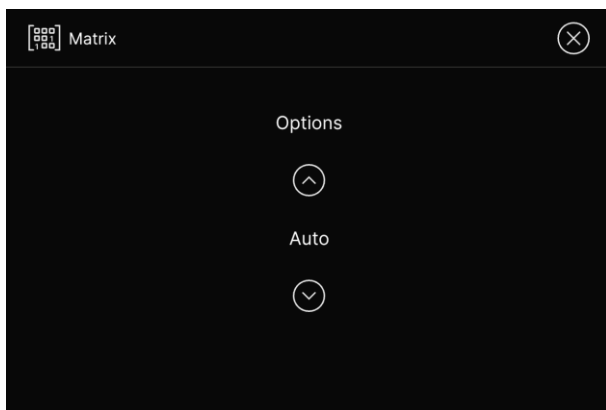


Figure 5.2-13 Matrix Menu

Table 5.2-7 Description of Color Matrix

Item	Default	Domain Range	Description
Options	AUTO	AUTO/ Rec 601(SD)/ Rec 709(HD)/ Rec 2020(UHD)	Set color matrix

5.2.8 Camera Color

The **Camera Color** menu items are used to set the color style, camera profile, gamma and gamut, as shown in Figure 5.2-14:

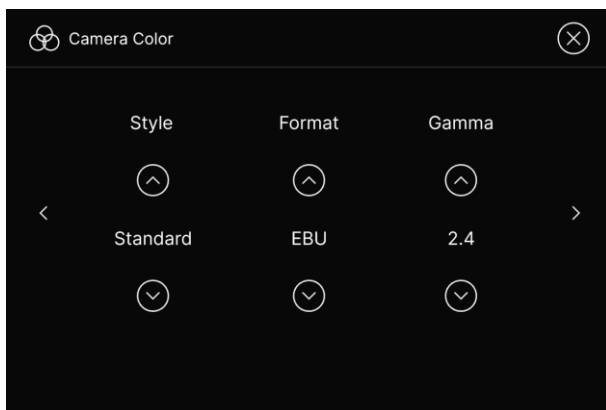


Figure 5.2-14 Color Menu

Table 5.2-8 Description of Color Items

Items	Default	Domain Range	Description
Style	Standard	Standard/LOG	Select color style between standard and LOG.
Format	EBU	Standard: EBU/DCI LOG: ARRI/BMD/ Canon/FUJI/ Nikon/Panasonic/ RED/SONY	Select a camera profile format, refer to Table 5.2-9 for the relationship among color profile, gamma and gamut
Gamma	--	Refer to Table 5.2-9	Set Gamma
Gamut	--	Refer to Table 5.2-9	Set Gamut

1. Color Profile

The monitor is equipped with versatile camera profiles for different requirements. We provide the following color profiles:

Set **Style** and **Format** according to a camera model, then choose Gamma and Gamut, as shown in Table 5.2-9:

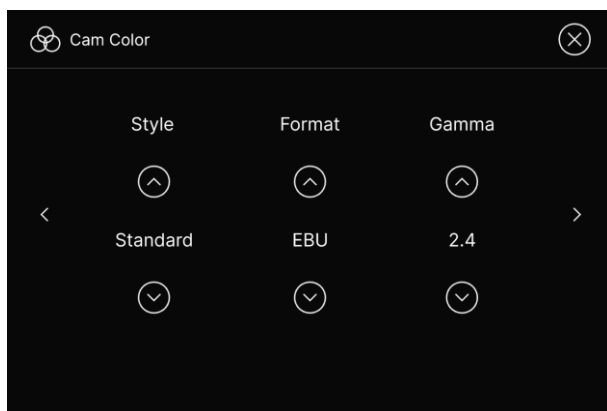


Figure 5.2-15 Color Settings

■ Color Profile (For Versatile CAMERAs)

There are versatile color profiles for cameras of various brands, supporting ARRI, BMD, Canon, DCI, EBU, FUJI, NIKON, Panasonic, RED and SONY, etc.

Table 5.2-9 Color Profiles for Cameras

PROFILE	GAMMA	GAMUT
EBU	2.2	Rec 709
	2.4	Rec 709
	HLG	Rec 709, Rec 2100
	PQ	Rec 709, Rec 2100
DCI	2.6	P3 D65, DCI-P3
ARRI	EI160	Rec.709, ALEXA Wide Gamut

PROFILE	GAMMA	GAMUT
	EI200	
	EI250	
	EI320	
	EI400	
	EI500	
	EI640	
	EI800	
	EI1000	
	EI1280	
	EI1600	
BMD	BMD Film	BMD 4K Film, BMD 4.6K Film, BMD Pocket 6K Film
	BMD 4K Film	
	BMD 4.6K Film	
Canon	C LOG	Rec.709, Canon Cinema, Rec 2100, DCI-P3, DCI-P3+
	C LOG2	
	C LOG3	
FUJI	F-LOG	Rec.709, F-Gamut
NIKON	N-Log	Rec 2100
Panasonic	V-LOG	Rec.709, V-Gamut
RED	Redlogfilm	Rec.709, DRAGONcolor, DRAGONcolor2, REDcolor2, REDcolor3, REDcolor4, REDWideGamut
	Log3G12	
	Log3G10	REDWideGamut

PROFILE	GAMMA	GAMUT
Sony	S-LOG	Rec.709, S-Gamut, S-Gamut3, S-Gamut3.Cine, Rec 2100
	S-LOG2	
	S-LOG3	

Tips

- The preset color profiles are constantly under development.
- Please confirm your LOG settings before shooting videos, then activate it through **User LUT** tool in MySet. That is, this setting needs to be used in conjunction with the **User LUT** tool.

5.2.9 Color Temperature

The **Color Temp** menu items are used to set the color temperature, RGB gains, as shown in Figure 5.2-16:

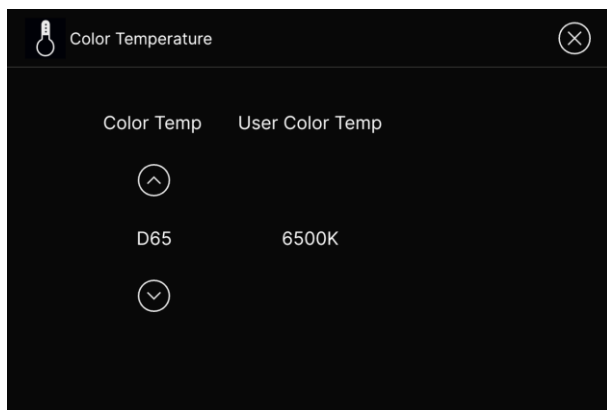


Figure 5.2-16 Color Temperature Menu

Table 5.2-10 Description of Color Temperature Items

Items	Default	Domain Range	Description
Color Temp	D65	D65/D93/User	Select a color temperature standard for the panel
User Color Temp	6500	3200~11000	Set custom color temperature
R-GAIN	512	0~512	Adjust the Red Gain
G-GAIN	512	0~512	Adjust the Green Gain
B-GAIN	512	0~512	Adjust the Blue Gain
Reset	--	--	Reset R,G,B GAIN

Tips

- Press and hold the up/down arrows for 1 second to quickly adjust the gain value.

5.2.10 User LUT

The **User LUT** menu item is used to load User LUT, as shown in Figure 5.2-17:



Figure 5.2-17 User LUT Menu

Table 5.2-11 Description of User LUT

Item	Default	Domain Range	Description
Execute Load Lut File	--	LUT1~ LUT10	Load a color look profile from SD card

The monitor could be equipped with versatile color lookup profiles for different image effect requirements. Add these customized LUT files from SD card through **User LUT** item in monitor settings, then select and apply USER LUT through User LUT tool in a MySet.

- **First, write the designated LUT file to the monitor.**

Operation:

To upload a LUT file from SD card, tap **USER LUT** item in monitor settings window, it will pop up a User LUT file list containing 10 LUTs, as shown in Figure 5.2-18, you can only see LUT ID without profile name in the list when you have not uploaded any LUT files.

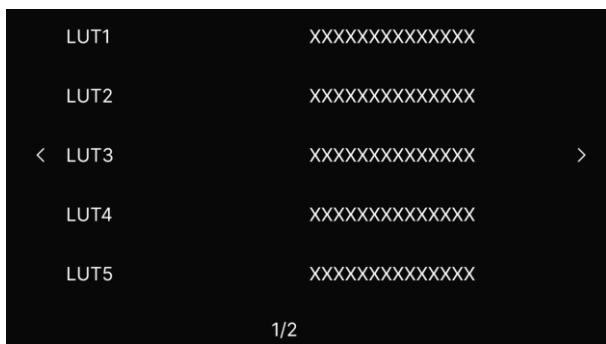


Figure 5.2-18 LUT List

Tap one user LUT ID in the list to choose it as the designated LUT. Then, it will pop up a prompt for reminding you overwriting operation for LUT file, as shown in Figure 5.2-19, tap **Confirm** button and then select the target LUT from SD card in the next window, as shown in Figure 5.2-20, the file should be a LUT file with “.cube” suffix, and specify its storage directory, please don’t cut off the power during loading.



Figure 5.2-19 Prompt for Overwriting LUT

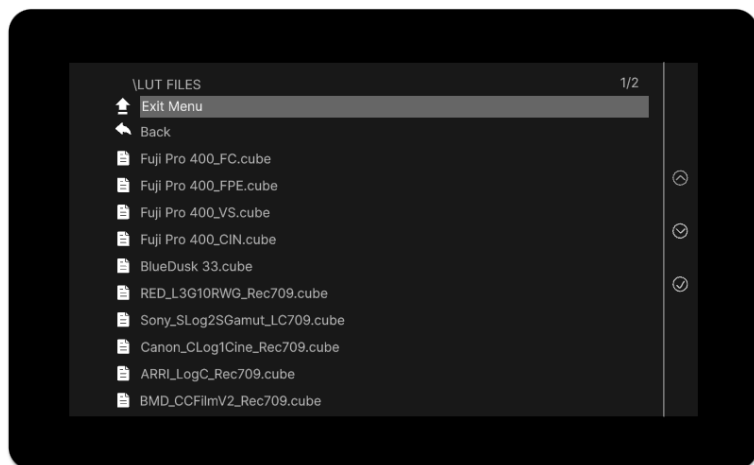


Figure 5.2-20 Calibration USER LUT Directory

For example: Load a LUT file to **LUT1**, tap **LUT1** in the LUT list, it will pop up a series of directories for navigating to the designated LUT file, as shown in Figure 5.2-20, then click the UP or DOWN arrow on the right side to choose a target USER LUT to be stored from the SD card, click the TICK icon to confirm the selection, it will prompt the writing status, as shown in Figure 5.2-21, then it will prompt file write complete after file loading. At last, you will see the profile name is on the right side of LUT1 in User LUT list.

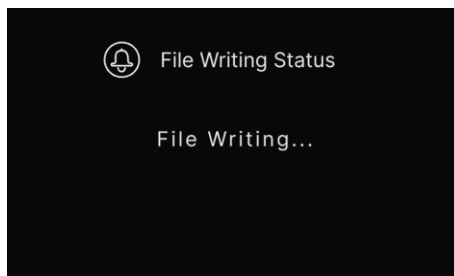


Figure 5.2-21 Prompt for File Writing

- **Second, use User LUT tool to activate LUT to current MySet.**

Operation: after accessing a MySet, tap screen to load the **Tool** bar on the bottom of the screen. First, click the Add Tool icon  to add a **User LUT** tool  into the tool bar, then tap this tool to activate it, the tool icon will be highlighted in orange, as shown in Figure 5.2-22:

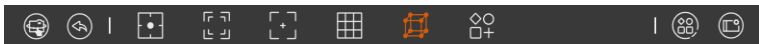


Figure 5.2-22 Enable User LUT Tool

Swipe up from the **User LUT** tool icon to load the tool settings bar above the bottom row bar, as shown in Figure 5.2-23. This tool settings bar contains all the options for User LUT tool.

For example:

Set **User LUT ID** item as **LUT1**, and **User Internsity 100%** item as **100%**, thus, it will apply **LUT1** to current MySet display.

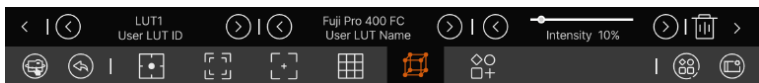


Figure 5.2-23 Tool Settings for User LUT

After activating a LUT file, it will be loaded to the image display immediately, as shown in Figure 5.2-24:



Figure 5.2-24 *Output Image Applied with a LUT File*

Tips

- There will a “File format not support!” prompt for unavailable LUT file when executing file writing operation.
 - Refer to “6.1.4 User LUT Tool” for the details about applying the 3D LUT file.
 - Make sure your SD card is FAT32 format, otherwise, it will not be supported in this monitor.
 - G7 Pro supports color management software **Osee Calibrator**.
 - The customized 3D LUT profiles (*.cube) could be loaded to SD card by a control computer.
 - If detecting no SD card during the operation, it will prompt “**No Media**”; if any other wrong happened, it will pop up the relevant prompt, please check it according to the prompt.
-

5.2.11 Probe

The **Probe** menu is used to set probe position whether after loading LUT or before loading LUT, as shown in Figure 5.2-25:

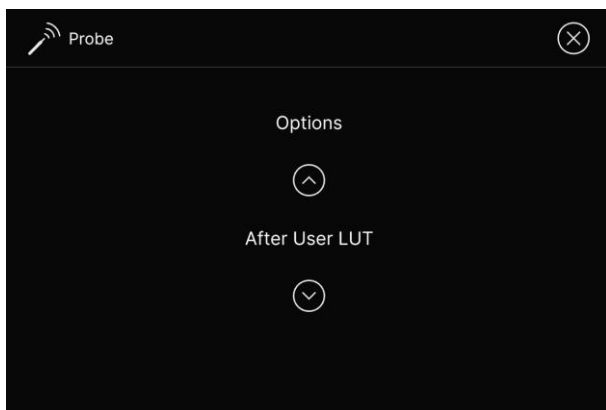


Figure 5.2-25 Probe Menu

Table 5.2-12 Description of Probe Menu

Item	Default	Domain Range	Description
Options	After LUT	After LUT/ Before LUT	Set the probe before or after LUT loading. This probe will affect the collecting data from the input signal to the appearance of waveform, vector, histogram, false color and zebra.

5.2.12 Language

The **Language** menu provides to select your preferred language for the device interface in order to navigate and operate the monitor in a language you are comfortable with. The language menu is as shown in Figure 5.2-26.

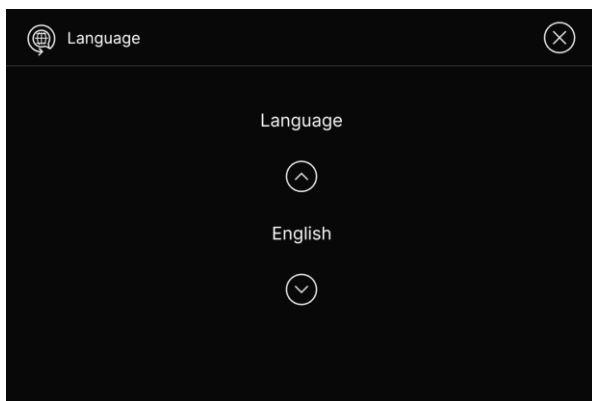


Figure 5.2-26 Language Menu

Item	Default	Domain Range	Description
Language	English	English /Chinese	Set the language for your monitor interface.

1. Language Change

The default menu language is English. Set **Language** → **Language** item as Chinese to switch the language mode, it will pop up a prompt, as shown in Figure 5.2-27, press **Confirm** to continue, otherwise press **Cancel** button.

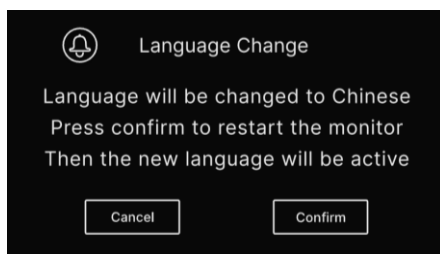


Figure 5.2-27 Prompt for Changing Language

i Tips

- Current language settings are preserved during factory reset.

5.2.13 Support

The **Support** menu provides following supports to our customers: Osee's CR Code, website and E-mail, as shown in Figure 5.2-28. For any questions, please contact us by above contact ways.



Figure 5.2-28 Support Menu

5.2.14 Info

The **info** menu provides the essential monitor information. Tap **Info** button to check the device version, build info, serial number and model items, as shown in Figure 5.2-29:

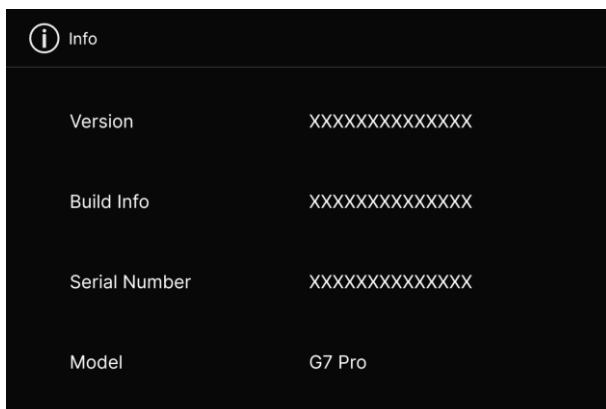


Figure 5.2-29 Info

Table 5.2-13 Description of Info

Item	Description
Version	Show the firmware versions
Build Info	Show build information
Serial number	Show serial number
Model	Show device model

These info helps you identify the specifications, features, and compatibility with accessories. Knowing these can assist in finding the correct drivers, firmware updates, and additional documentation.

5.2.15 Reset

The **reset** menu provides factory reset and color calibrate operations, as shown in Figure 5.2-30:

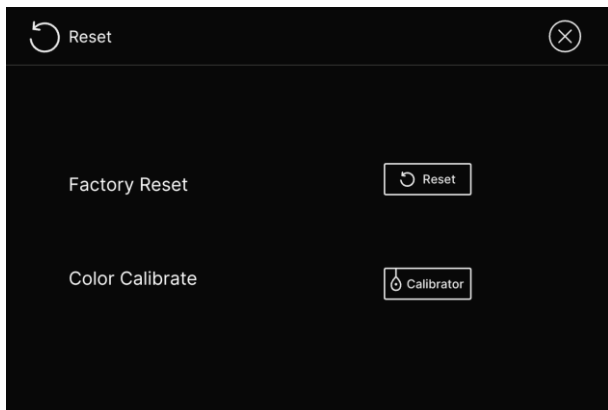


Figure 5.2-30 Reset

Table 5.2-14 Description of Reset

Items	Description
Factory Reset	Revert the factory settings
Color Calibrate	Execute color calibrate process

1. FACTORY RESET

Tap **Reset**→**Factory Reset** to initialize the settings to default values, as shown in Figure 5.2-31:

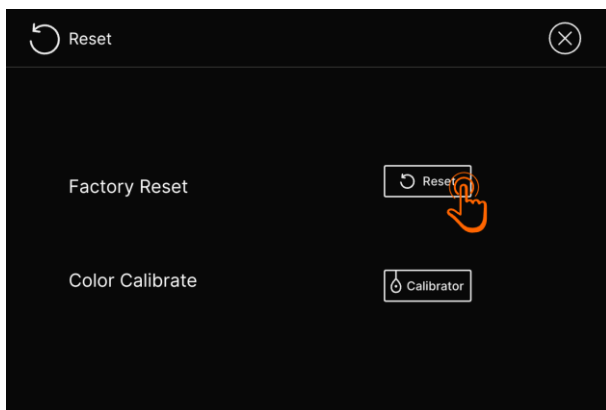


Figure 5.2-31 Factory Reset

Tap **Reset** button, it will pop up a prompt, as shown in Figure 5.2-32, tap **Confirm** button to confirm the reset operation. Please pay some patience during the reset operation, and it lasts about 30s. The device will be in black screen mode for a short time after confirming reset operation, and then it will display the Boot Screen for successful reset operation, as shown in Figure 5.2-33.

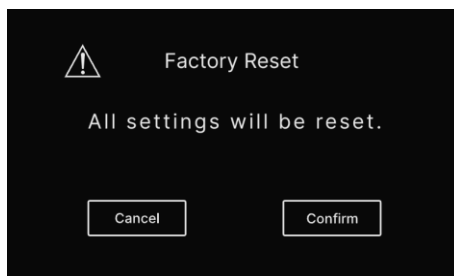


Figure 5.2-32 Prompt for Factory Reset



Figure 5.2-33 Boot Screen

2. Color Calibration

We provide two methods for screen color calibration for your G7 Pro. One is using the built-in manual calibration, the other is using the professional color management software **Osee Calibrator** Produced by **Osee**.

Follow these steps to calibrate your monitor.

Tips

- Before calibration, warm up your monitor and put the probe at a proper location.

☐ About Monitor Warm-up

The monitor should be provided a stable status before starting the calibration. That is, before calibration, make sure your monitor has been powered up for a certain time (we recommend at least 20 minutes), thus, this will warm up the monitor and make it in an excellent status, and please make sure there is no intense light bursting on the monitor.

☐ About the Detector Position

Take an X-Rite probe for example, put the detector of your probe at the center of the monitor. as shown in Figure 5.2-34.

- You should make sure there is no other light source in your color calibration system, recommended a totally black environment.
- The detector of your color probe should be placed as close as possible to the center of the monitor screen when calibrating.



Figure 5.2-34 Calibration Probe on Screen

■ Method 1: Manual calibration

☐ Calibration Preparation:

Connect the calibration probe to the **USB-C** connector of your monitor using the calibration cable, the connector on your G7 Pro is as shown in Figure 5.2-35.

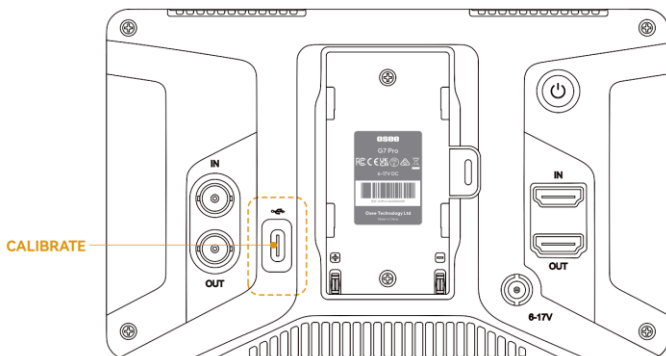


Figure 5.2-35 Calibrate Connector on G7 Pro

□ Calibration Steps

First, ensure that the manual calibration method is activated. That is, set **Control**→**Control Mode** item to **Calibration** in the monitor settings. Now, you can start the device's manual calibration process.

Second, select **Reset**→**Color Calibrate** in the monitor settings. A prompt box will appear, as shown in Figure 5.2-36. Select "OK" to start manual calibration.



Figure 5.2-36 Manual calibration Prompt

Once the calibration starts, select **"Yes"** to generate a report, as shown in Figure 5.2-37, and press **"Start"** to proceed with the calibration, as shown in Figure 5.2-38. Then, a prompt indicating the probe placement will appear, press **"Confirm"** to continue.

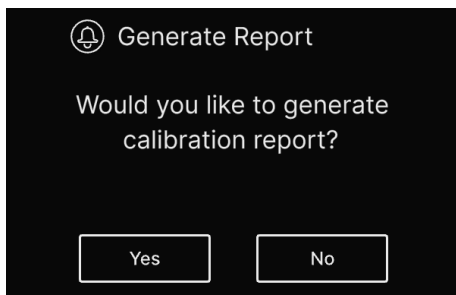


Figure 5.2-37 *Generate Report Prompt*

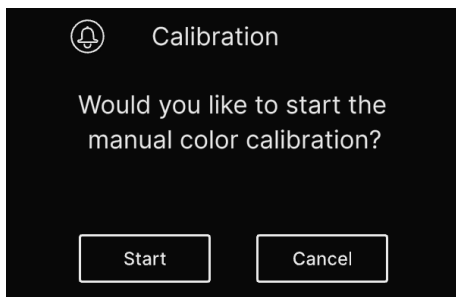


Figure 5.2-38 *Start Calibration Prompt*

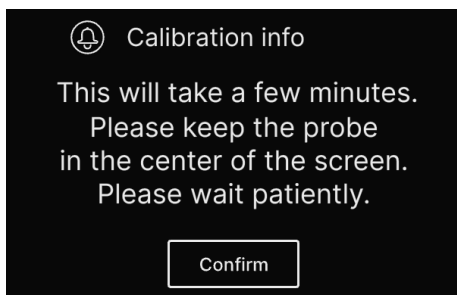


Figure 5.2-39 Probe Placement Prompt

Tips

- When the probe placement prompt appears as shown in Figure 5.2-38, a center marker will automatically load in the center of the screen to facilitate probe placement.

The prompt "Calibration in progress" will appear, your monitor is in calibrating, as shown in Figure 5.2-40. It will take a few minutes, please be patient.

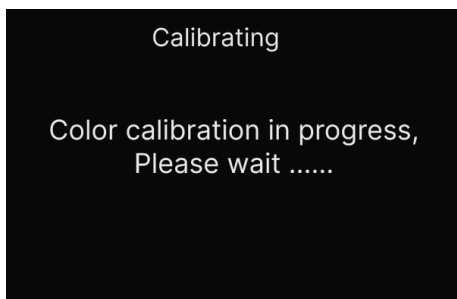


Figure 5.2-40 Calibration in Progress

Once calibration is completed, it will pop up a calibration preview&apply prompt, as shown in Figure 5.2-41. Press "**Preview New**" to view the calibration result, or select "**Apply**" to apply the new calibration data. Otherwise, choose the "**Revoke**" option to cancel the calibration.

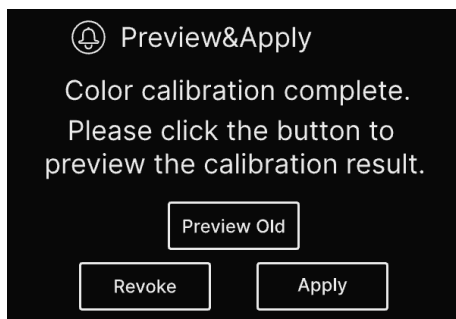


Figure 5.2-41 Calibration Preview and Apply Prompt

■ **Method 2: Software Calibration Using Osee Calibrator**

□ **Calibration Preparation:**

Connect the USB interfaces of the control computer to both the target monitor and the calibration probe through the calibration cable.

Connect a USB interface of the control computer to the **USB-C** interface of the OSEE monitor, and connect the other USB interface to the calibration probe(the probe usually comes with a dedicated calibration cable), as shown in Figure 5.2.28, and power on the devices.

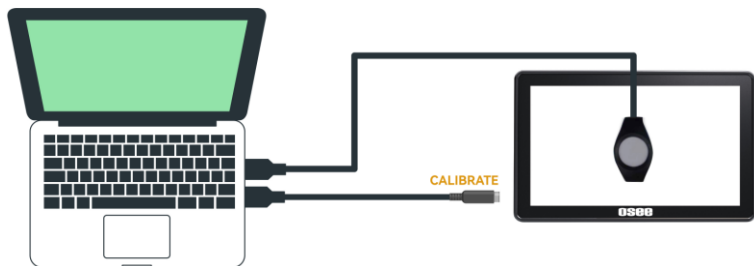


Figure 5.2-42 Device Connection-Osee Calibrator Calibration

Tips

- When using **Osee Calibrator** to calibrate the monitor, you can add a center marker tool by selecting **Center** in the **ADD TOOL** menu, and activate it, then you can take this marker as a reference to align the center of the monitor and the detector center. Make sure the probe has connected with computer and put upon the monitor screen.

Calibration Steps

First, disable the manual calibration method. Ensure that the manual calibration method is deactivated. Select **Control→Control Mode** item in the monitor settings, and set it to **Off**. Now, you can proceed with the professional color management software **Osee Calibrator**.

Next, launch the **Osee Calibrator** software on your control computer and start the software to calibrate.

For instructions on using the Osee Calibrator software, please refer to the software's user guide.

Tips

- For information on downloading and using the Osee Calibrator calibration software, you can scan the QR code on the About page of this manual to access technical support from Osee.
-

2. Firmware UPDATE

Insert the SD card with your upgrade file whose format should be with “.bin” suffix, power on the device and it will upgrade automatically, please don't disconnect power or input when upgrading, then after successfully upgraded, it will prompt as shown in Figure 5.2-43:



Figure 5.2-43 Update

At last, please restart the device by manual.



- It lasts about 30s for restarting operation, please don't do any operations during restarting the device.
-

Chapter 6 MySets and Tools

6.1 Tools Settings

You can create customized scenes pages with different features and settings in G7 Pro, each scene page in the monitor is a MySet. On each MySet, you can add up to 8 video assisting tools. You can switch between MySets to check different things with a simple scroll.

Tap on the screen, the tool bar is displayed at the bottom center of the screen, labeled in the highlight rectangle as shown in Figure 6.1-1.

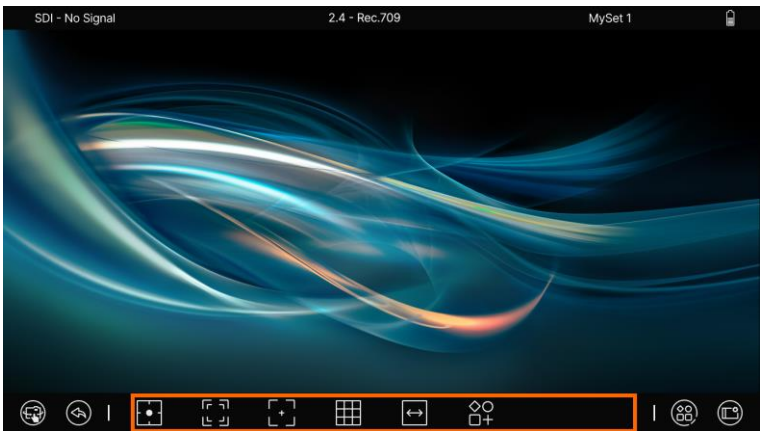


Figure 6.1-1 Tool Bar for MySet

The tool bar provides access to tools aiding in composition, focus and exposure for a MySet, you can add your tools on a MySet, and then they will be listed in the tool bar, and swipe up from the tool bar, you can display the tool settings bar above it.

Tap the Add tool icon , the available tools in a MySet are listed in Add Tool menu, as shown in Figure 6.1-2 and Table 6.1-1:

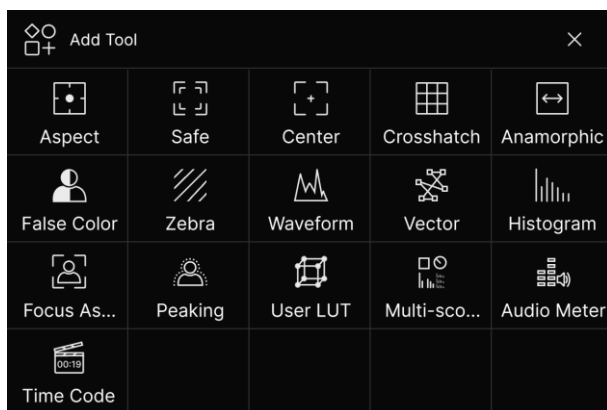


Figure 6.1-2 Add Tool Menu

Table 6.1-1 Tool Icons

Tool	Icon	Tool	Icon
Aspect Marker		Vector	
Safe Marker		Histogram	
Center Marker		Focus Assist	
Crosshatch		Peaking	
Anamorphic		User LUT	
False Color		Multi-scopes	
Zebra		Audio Meter	

Tool	Icon	Tool	Icon
Waveform		Time Code	

After adding tool to the tool bar for a MySet, you can edit the tool's attributes by its tool settings menu. Swipe up from the tool bar, the tool settings bar will be displayed above the bottom bar, as shown in Figure 6.1-3:



Figure 6.1-3 Tool Settings Menu

It will introduce the tools and their attributes in the following section, and refer to “6.2 MySet and Tools Operations” for the details about tools operation.

6.1.1 Frame Tools

Frame tools assist to set viewing frame, including aspect area, safe area, center, crosshatch and anamorphic. Show or hide these markers by tapping their icons in the tool bar, and their display style and transparency are adjustable.



Figure 6.1-4 Frame Tools

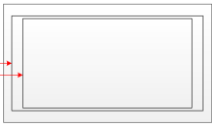
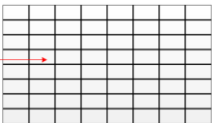
Table 6.1-2 Description of Frame Tools

Tool	Items	Default	Domain Range	Description
Aspect	Ratio	16:9 (HD TV)	9:16 (Phone)/ 4:5/1:1/ 4:3 (SD TV)/ 1.375:1(Cinema)/ 16:9 (HD TV)/ 1.85:1(Cinema)/ 2.37:1(Cinema)/ 2:3/5:4/3:2/ 1.91:1/2:1/ 2.35:1/2.41:1/ CUSTOM	Select the display ratio of the marker
	Custom Ratio	1:1	0.50 ~2.50	Set the width of the matte area in CUSTOM mode, the step is 0.02
	Opacity	100%	25% 50% 75% 100%	Set the transparency of the matte darken area
Safe	Action	Off	Off/On	The safe marker is displayed as an outside frame, proportional to 92% of the Aspect Ratio
	Title	Off	Off/On	The safe marker is displayed as an inside frame, proportional to

Tool	Items	Default	Domain Range	Description
				80% of the Aspect Ratio in horizontal direction, and 90% of the Aspect Ratio in vertical direction.
Center	Style	Cross	Cross/Hollow	Set center marker style
Crosshatch	Lines	2X2	2X2/3X3/4X4/ 5X5/6X6/7X7/ 8X8/9X9	Set the cross line number
Anamorphic	Magnify	Off	Off/On	Enable/Disable magnify the image, that is to draw the image full screen after de-squeezing the image with the selected anamorphic ratio, cut the part which extend outside the screen
	Ratio	1.33X	1.25X/1.33X/ 1.4X/1.5X/1.6X 1.65X/1.79X/ 1.8X/1.9X/2X/	Set the anamorphic ratio

1. Marker

Marker	Illustration	Description
Aspect (Area Marker)		This marker identifies an area with a specified aspect ratio and a covered matte, and the area's transparency could be adjusted.

Marker	Illustration	Description
Safety Marker		This marker displays a rectangle to identify the safety area with a specified percentage in Area Marker.
Center Marker		This marker enables easier checking the center portion's focus.
Cross hatch		This marker displays multiple vertical and horizontal lines to help when users check the composition of an image.

2. Area Marker

Set the area marker **Aspect** → **Ratio** item as **CUSTOM**, the ratio of the marker are adjustable as your requirement.

And the outside area of the area maker is filled with matte with two white lines labeled the area marker, you can set the transparency for this matte area.

For example, tap **Aspect** → **Opacity** item as **50%**, the outside area of marker is 50% transparency of the background with two white lines, as shown in Figure 6.1-5:



Figure 6.1-5 Area Marker

3. Set Anamorphic Ratio

This feature enables you to de-squeeze signals coming from camera utilizing anamorphic lenses that may not have a built-in de-squeeze feature of their own. This is quite useful in applications, such as outdoor post production, onset monitoring, real-time de-squeezing, etc.

The valid area which will fill the screen is controlled by the ratio selection, tap **Anamorphic** → **Ratio** item to cycle through these anamorphic ratios: 1.25X, 1.33X, 1.4X, 1.5X, 1.6X, 1.65X, 1.79X, 1.8X, 1.9X, 2X. There will be black blank area at the surrounding of the image.

For example, the resolution of the input and output are as shown in Table 6.1-3:

Table 6.1-3 Resolution Relationship Between Input and Output

ANAMORPHIC	INPUT SIGNAL	INPUT	OUTPUT
1.25X	1080P/1080I	1920x1080	1920x864
	720P	1280x720	1920x864
1.33X	1080P/1080I	1920x1080	1920x812
	720P	1280x720	1920x812
1.4X	1080P/1080I	1920x1080	1920x771
	720P	1280x720	1920x771
1.5X	1080P/1080I	1920x1080	1920x720
	720P	1280x720	1920x720
1.6X	1080P/1080I	1920x1080	1920x650
	720P	1280x720	1920x650
1.65X	1080P/1080I	1920x1080	1920x654

ANAMORPHIC	INPUT SIGNAL	INPUT	OUTPUT
1.79X	720P	1280x720	1920x654
	1080P/1080I	1920x1080	1920x603
1.8X	720P	1280x720	1920x603
	1080P/1080I	1920x1080	1920x600
1.9X	720P	1280x720	1920x600
	1080P/1080I	1920x1080	1920x568
2X	720P	1280x720	1920x568
	1080P/1080I	1920x1080	1920x540
	720P	1280x720	1920x540

■ Magnify

This item will magnify the image of anamorphic ratio to full-fill the screen. Set **Anamorphic**→ **Magnify** item as **On**, it will enlarge and display the image at full screen, removing those useless blank bars, as shown in Figure 6.1-6:

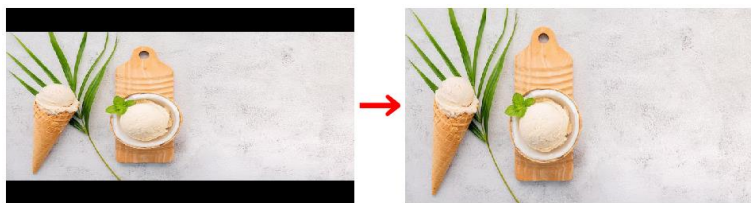


Figure 6.1-6 Magnify

6.1.2 Expose Tools

Expose tools provide false color, zebra, waveform, vector and histogram, as shown in Figure 6.1-7:



Figure 6.1-7 Expose Tools

Table 6.1-4 Description of Expose Tools

Tool	Items	Default	Domain Range	Description
False Color	Style	Spectrum	Follow Camera/ Spectrum/ Custom	Set the type of the false color display
	Black Clip Max	3%CV	1-99%CV	Set black clip, the step is 1%
	Near Black Max	4%CV	2-100%CV	Set near black, the step is 1%
	Tone1 Min	46%CV	0-99%CV	Set minimum of tone1, the step is 1%
	Tone1 Max	55%CV	1-100%CV	Set maximum of tone1, the step is 1%
	Tone2 Min	77%CV	0-99%CV	Set minimum of tone2, the step is 1%
	Tone2 Max	90%CV	1-100%CV	Set maximum of tone2, the step is 1%
	Near White Min	96%CV	0-98%CV	Set near white, the step is 1%
	White Clip Min	98%CV	1-99%CV	Set white clip, the step is 1%
Zebra	Tone1 Min	0%CV	0-99%CV	Set the Tone1 minimum color value of detecting luminance.

Tool	Items	Default	Domain Range	Description
	Tone1 Max	4%CV	1-100%CV	Set the Tone1 maximum color value of detecting luminance.
	Tone2 Min	97%CV	0-99%CV	Set the Tone2 minimum color value of detecting luminance.
	Tone2 Max	100%CV	1-100%CV	Set the Tone2 maximum color value of detecting luminance.
Wave form	Style	LUMA	LUMA/RGB/Parade	Set the type of the waveform
	Size	Small	Small/Large/Bottom	Set the size of the waveform
	Position	Top Right	Top Right/ Bot Right/ Top Left/ Bot Left	Set the position of the waveform, only available for small size waveform
	Density	50%	25%/50% 75%/100%	Set the density of the waveform, the step is 1%
	Opacity	100%	25%/50% 75%/100%	Set the transparency of the waveform
Vector	Position	Bot Right	Top Right/ Bot Right/ Top Left/ Bot Left	Set the position of the vector
	Gain	X1	X1/X2	Set the gain of vector
	Density	50%	25%/50% 75%/100%	Set the density of vector
	Opacity	100%	25%/50% 75%/100%	Set the transparency of vector

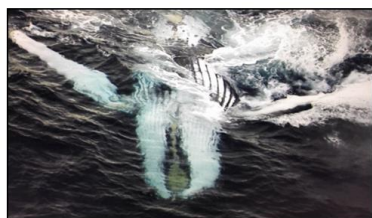
Tool	Items	Default	Domain Range	Description
Histogram	Style	LUMA	LUMA: luminance histogram RGB: RGB histogram	Set the type of histogram
	Position	Bot Left	Top Right/ Bot Right/ Top Left/ Bot Left	Set the position of histogram
	Opacity	100%	25%/50% 75%/100%	Set the transparency of histogram

1. False Color

False Color is also known as Exposure Assist, this function generates an artificial luminance map of the input signal that can be useful to identify over exposed areas (exposure). This is a quick way to gauge the exposure levels of an image in a clear way.

Choose **False Color** tool to the current MySet, and tap it to activate the **False Color** tool. You can customize some parameters such as **Black Clip**, **Near Black** in **Custom** style.

For example: Add and Enable a **False Color** tool, set **Style** item as **Spectrum**, as shown in Figure 6.1-8:



FALSE COLOR=OFF



FALSE COLOR=ON

Figure 6.1-8 Comparison Mode- Original Image and Normal Mode Image

Tips

- The Zebra tool is incompatible with the False Color tool. That is, enable the Zebra tool, the False Color tool will be disabled automatically, and enable the False Color tool, the Zebra tool will be disabled automatically.

2. Zebra

The **Zebra** function is used to display images on the screen with a zebra pattern to adjust the camera exposure parameter. It will compare the signal luminance with the zebra parameters. You can set two limitations as **Tone1** and **Tone2**. **Tone1** is limited between **Tone1 Min** and **Tone1 Max**, **Tone2** is limited between **Tone2 Min** and **Tone2 Max**. The relevant image area will be filled with a white and black stripe zebra pattern if the luminance is in the range of **Tone1**. Besides, it will be filled with a white and blue stripe zebra pattern if the luminance is in the range of **Tone2**.

For example, set **Tone1 Min** as 0% and **Tone1 Max** as 4%, **Tone2 Min** as 97% and **Tone2 Max** as 100%, the compared results are as shown in Figure 6.1-9, the special Area is filled with a zebra pattern.



ORIGINAL IMAGE



ZEBRA CHECK

Figure 6.1-9 Illustration for ZEBRA Function

3. Waveform

Waveform displays the luminance level of the input signal on a graph, matching with the image from left to right.

■ Waveform Size

Set **Waveform→Size** item to adjust the size of the waveform, there are three kinds of sizes for waveform:

- ☐ Small size waveform: set **Size** item as **Small**, and this kind of waveform could be located in any one of the 4 positions listed in **Position** item;
- ☐ 75% waveform: set **Size** item as **Large**, and this kind of waveform is located in the center of the screen, and it can't be moved;
- ☐ Full size waveform: set **Size** item as **Bottom**, and this kind of waveform is located in the bottom of the screen from left to right, and it can't be moved.

■ Waveform Type

Set **Waveform→Style** item to display the following three kinds of waveform as LUMA, RGB, Parade, as shown in Figure 6.1-10:

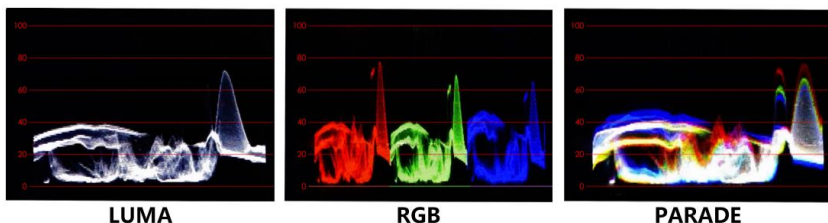


Figure 6.1-10 LUMA and RGB and PARADE Waveform

4. Vector

Tap **Vector** item to add a vector.

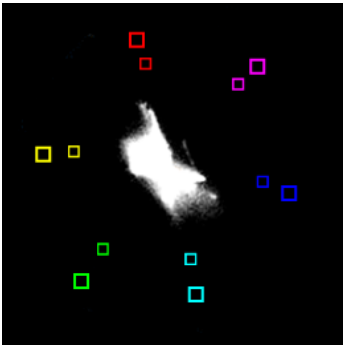


Figure 6.1-11 Vector

5. Histogram

Histogram assists in judging the distribution of luminance in the image.

■ **Histogram Type**

Set **Histogram→Style** item as LUMA or RGB, these two histogram types are as shown in Figure 6.1-12:

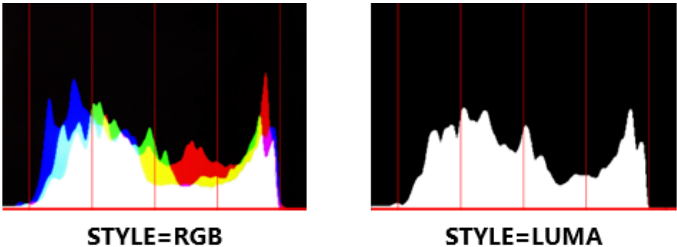


Figure 6.1-12 RGB and LUMA Histogram

6. Position

There are 4 positions for display the histogram, waveform and vectorscope on the screen, as shown in Table 6.1-5 and Figure 6.1-13. Move them through the **Position** item.

Table 6.1-5 Position Settings

Locations	
Top Right	Top Left
Bottom Right	Bottom Left



Figure 6.1-13 Position of the Assistant Elements

7. Opacity

There are 4 degrees of opacity for display the histogram, waveform and vectorscope on the screen. Set the transparency through the **Opacity** item.

- ☐ 100%: when opacity set to 100%, the assistant element (histogram, waveform or vector) is opaque, not transparent.
- ☐ 75%: when opacity set to 75%, the assistant element (histogram, waveform or vector) is proportional to 75% opacity.

- ❑ 50%: when opacity set to 50%, the assistant element (histogram, waveform or vector) is proportional to 50% opacity.
- ❑ 25%: when opacity set to 25%, the assistant element (histogram, waveform or vector) is proportional to 25% opacity.

For example: set **Histogram**→ **Opacity** as 100%, 75%, 50%, 25% separately, the comparisons are as below:

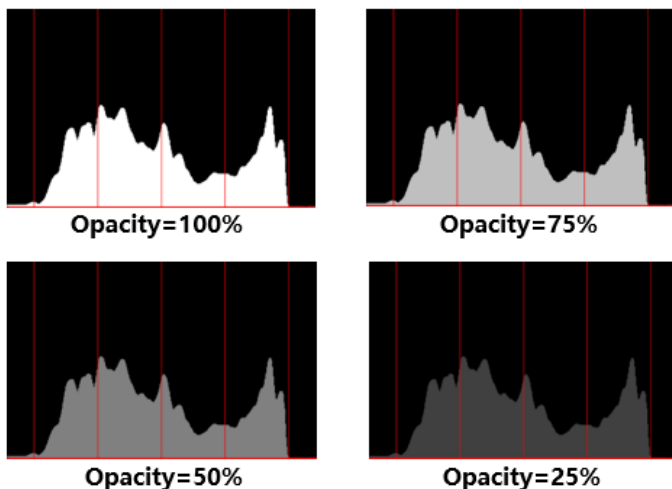


Figure 6.1-14 Different Opacity for Histogram

6.1.3 Focus Tools

Focus tools provide the focus assist function and the peaking function. Set display color, sensitivity and display type for focus assist, and set intensity for peaking detecting.

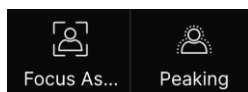


Figure 6.1-15 Focus Tools
Table 6.1-6 Description of Focus Tools

Tool	Items	Default	Domain Range	Description
Focus Assist	Color	Red	White /Red /Green /Blue	Select the color of the focus assist edge. The intensified edges highlight in selected color.
	Sensitivity	5	1~10	Set the edge difference value between the edges in an image, and take this value as the reference value. Larger value means more detail detection.
	Background	Color	Color: Color Mode B&W: Black &White Mode	Set the Focus Assist display mode: color mode or black&white mode.
Peaking	Intensity	5	1~10	Set the sharpness level of the image. The higher the value, the sharper the image.

1. Focus Assist

The Focus Assist function is used to display images on the screen with intensified edge to help camera focus operation. The intensified edges are those areas whose difference value exceeds the reference focus level (**Sensitivity**), and the intensified edge are displayed in the designated color set by **Color**.

■ Focus Assist Mode

- ☐ **Color Mode:** Set **Focus Assist** → **Background** item as **Color**, the image is in color mode, then set **Focus Assist** → **Color** to color the intensified edge.

- **B&W Mode:** Set **Focus Assist** → **Background** item as **B&W**, the image is in black and white mode, that is removing all colors and only leaving the luminance data of the signal.



**BACKGROUND=COLOR
COLOR=RED**



**BACKGROUND=COLOR
COLOR=GREEN**

Figure 6.1-16 Illustration for FOCUS ASSIST Function



BACKGROUND= B&W

Figure 6.1-17 Illustration for FOCUS ASSIST Function

Tips

- The Peaking tool is incompatible with the False Color or Zebra tool. That is, enable the False Color or Zebra tool, the Peaking tool will be disabled automatically.

6.1.4 User LUT Tool

User LUT tool provides loading 3D USER LUT and DE-LOG mode to current MySet, as shown in Figure 6.1-18

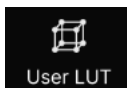


Figure 6.1-18 User LUT Tool

Table 6.1-7 Description of User LUT Tool

Items	Default	Domain Range	Description
User LUT ID	LUT1	LUT1~LUT10	Select a user LUT ID
User LUT Name	--	--	Display the user LUT name selected in ID
User Intensity 100%	100%	1~100%	Set the intensity of the LUT effected to current display

1. User LUT File

If you want to apply a USER LUT tool to current signal displayed on screen, you should load the USER LUT in monitor settings at first.

Step 1 Write the Designated LUT File to the Monitor

Select **USER LUT** → **LUT*** item in monitor settings, thus you can choose a LUT file from SD card, and you can see LUT ID in the list, as shown in Figure 6.1-19.

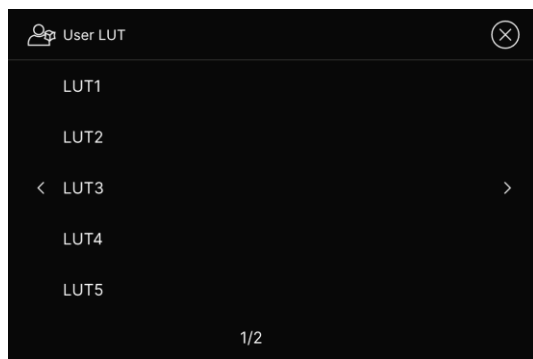


Figure 6.1-19 User LUT Menu

Choose one LUT ID, then it will pop up a prompt for reminding you overwriting operation for LUT file, as shown in Figure 6.1-20, press **Confirm** and select the target LUT from SD card, the file should be a LUT file with “.cube” suffix, and specify its storage directory, please don’t cut off the power during loading.



Figure 6.1-20 Prompt for Overwriting LUT

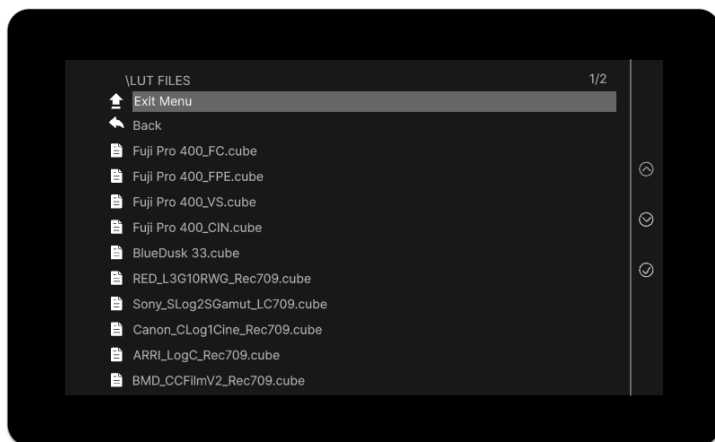


Figure 6.1-21 Calibration USER LUT Directory

It will prompt file write complete after file loading. Then, you can see the profile name is on the left side of the current LUT ID in the list. You can load up to 10 USER LUTs into the device, for example as shown in Figure 6.1-22.

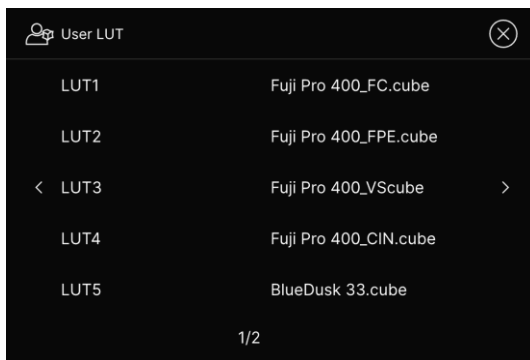


Figure 6.1-22 User LUT List

Step 2 Apply USER LUT in the Tool Bar

Select the User LUT tool in a MySet, and tap the LUT tool button to turn it on in tool bar.

Step 3 Set USER LUT Parameters

Swipe up from the **User LUT** tool icon to load the tool settings bar above the bottom row bar. Select **User LUT ID** item to your designated, the LUT name will be displayed in **User LUT Name** in gray, as shown in Figure 6.1-23:

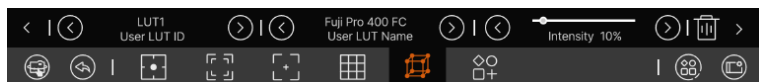


Figure 6.1-23 User LUT Tool

Then, you can adjust intensity of this LUT effectiveness on screen through the **Intensity** item.

Tips

- G7 Pro supports color management software **Osee Calibrator**.
- The customized 3D LUT profiles (*.cube) could be loaded to SD card by a control computer.

6.1.5 Analysis Tool

Analysis tool is used to swiftly display or hide all common used analysis charts on screen, including audio meter, waveform, histogram and vector, as shown in Figure 6.1-24 and Figure 6.1-25:

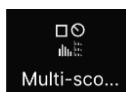


Figure 6.1-24 Analysis Tool

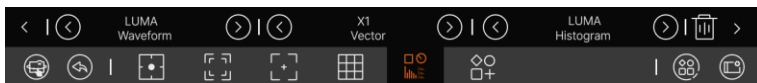


Figure 6.1-25 Multi-Scopes Settings

Table 6.1-8 Description of Multi-Scopes Tool

Tool	Items	Default	Domain Range	Description
Multi-Scopes	Waveform	LUMA	LUMA/RGB/Parade	Set the type of the waveform
	Vector	X1	X1/X2	Set the gain of vector
	Histogram	LUMA	LUMA/RGB	Set the type of the histogram
	Density	50%	25%/50% 75%/100%	Set the density of audio meter, waveform, histogram and vector displayed on screen

This tool puts multiple analysis charts and the image together.

■ Activate Analysis Tools

Tap **Multi-scopes** tool and enable it, it will zoom out to display the signal on the top left area, and show all common used analysis tools including vector, histogram, waveform and audio meter which are all activated. The layout of these tools on screen are as shown in Figure 6.1-26:



Figure 6.1-26 Analysis Tools

■ Type & Density

You can choose different types for these charts through their corresponding items in this tool, but their positions can't be modified. Adjust density of these tools all together through the **Density** item.

6.1.6 Meter Tools

Meter tool provides adding audio meter or time code to current MySet, as shown in Figure 6.1-27:

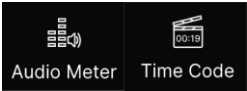


Figure 6.1-27 Meter Tools

Table 6.1-9 Description of Meter Tools

Tool	Items	Default	Domain Range	Description
Audio Meter	Position	Bot Right	Top Right/ Bot Right/	Set the position of the audio meter

Tool	Items	Default	Domain Range	Description
			Top Left/ Bot Left	
	Opacity	100%	25%/50% 75%/100%	Set the transparency of the audio meter
Time Code	Opacity	Half-Trans	Half-Trans/ Non-Trans	Set the transparency of the time code

■ Audio Meter

Select **Audio Meter** tool and enable the display of Audio Meter on screen. The audio meter could be displayed at the left bottom or right bottom of the screen, and the transparency could be set from 25% to 100%. Refer to “6.1.2 Expose Tools - Opacity” for the details about Transparency.

The volume in normal range appears in green, above -20dB but below -10dB appears in yellow, and below -10dB appears in red, as shown in Figure 6.1-28:



Figure 6.1-28 Audio Meter

■ Time Code

Select **Time Code** tool to adjust the transparency of embedded timecode on screen.

Timecode is displayed as the format of “HH:MM:SS:FF” at the bottom center of the screen, and if there is no available timecode, it will not appear.



Figure 6.1-29 Timecode

6.2 MySet and Tools Operations

It will introduce how to edit MySet and configure tools in this section.

6.2.1 MySet Edit

We support up to 8 MySets in G7 Pro, you can customize each MySet with various tools as your requirement, and switch among these MySets by swiping left or right in low center of the screen.

When operating a slide caliper in tool settings bar, swipe left to decrease the item value, and swipe right to increase its value.

■ Enter into MySet Edit Menu

Tap MySet Edit  button at the right side in the Bottom Row bar at the bottom of the screen, or tap the MySet name in the status bar, as shown in Figure 6.2-1:

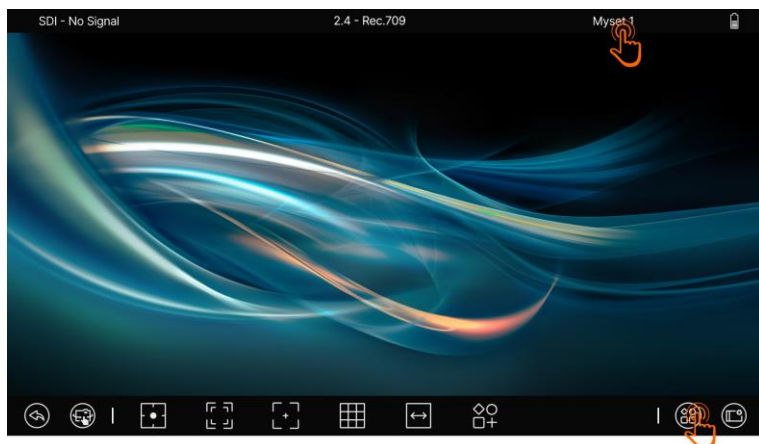


Figure 6.2-1 MySet Edit Button

It will display 8 MySet cells with the existed tool's thumbnails at the center of the screen. The MySets are numbered in sequence, as shown in Figure 6.2-2.

The existed MySet has a delete button  at the bottom of its cell, and the MySet you can add has a Add button  in the center of the MySet cell.

■ Switch MySets

Tap on the thumbnail to switch among these MySets, and the name of current MySet will be displayed in the top right-center of the status bar.

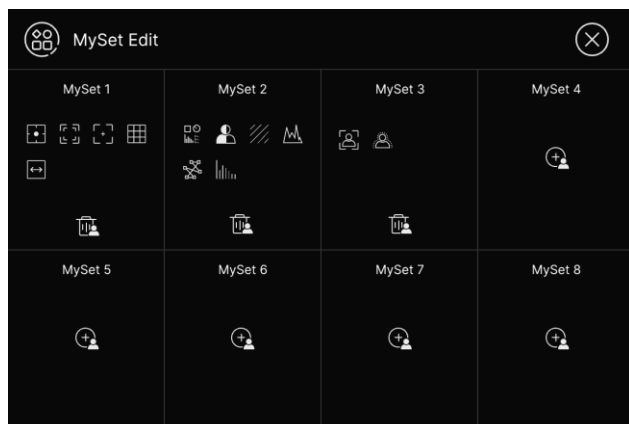


Figure 6.2-2 MySet Edit Menu

Method 1: Tap the MySet thumbnail to switch to the corresponding MySet, and it will exit MySet Edit menu after you have chosen one.

Method 2: Swipe left or right to switch among MySets when the screen is clean with no bars.

■ Exit MySet Edit

If you don't want to switch to a new MySet or return to the normal image screen, tap the close button at the top right of the MySet Edit menu.

Tips

- G7 Pro supports up to 8 customized MySets.
- Factory has 3 MySets (frame, exposure, focus) preset, you can edit them to your preferences.

6.2.2 Add/Delete a MySet

■ Add a MySet

Tap MySet Edit  button to display the MySet Edit menu, now you can add a MySet by tapping the add MySet  button at the center of each MySet cell, as shown in Figure 6.2-3.

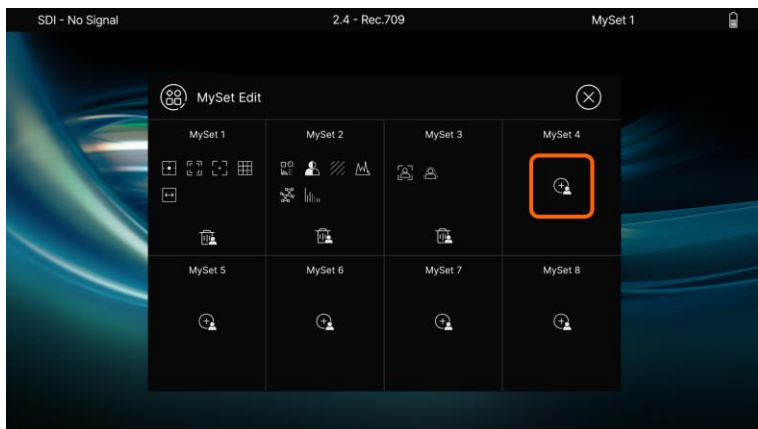


Figure 6.2-3 Add a New MySet

It will add this MySet, and switch it as the current MySet immediately, and as the same time, the MySet Edit menu is closed.

■ Delete a MySet

Tap MySet Edit  button to display the MySet Edit menu, now you can delete a MySet by tapping the delete MySet  button at the bottom of each MySet Cell.

Tap delete  button to display the prompt, as shown in Figure 6.2-4. Tap on **Confirm** button to confirm the deletion, then the selected MySet will be deleted, and the tools in this MySet are also deleted.



Figure 6.2-4 Delete a MySet Prompt

6.2.3 Clear a MySet

Tap the trash  button to clear all tools in a selected MySet.

Tap the trash button at the bottom of the corresponding MySet cell, as shown in Figure 6.2-5:

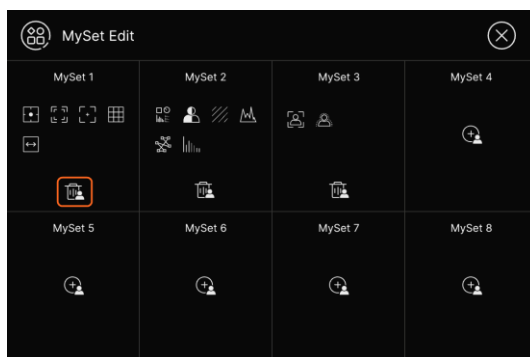


Figure 6.2-5 Clear the Tools in a MySet

Tap one MySet thumbnail to delete it, and there will be a prompt for deletion, as shown in Figure 6.2-6. Tap **Confirm** button to delete. Wait until the prompt disappeared, then the tools in this MySet will be cleared completely.

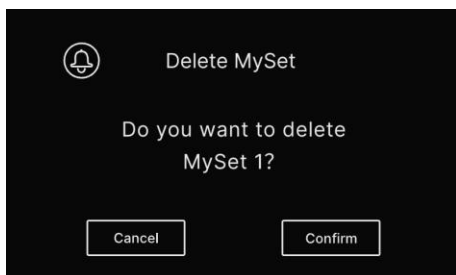


Figure 6.2-6 *Prompt for Delete a MySet*

6.2.4 Add a Tool

In a MySet, add some tools to assist in composition, for example, add a marker, waveform, histogram or audio meter, etc.

Tips

- Each MySet supports up to 8 assisting tools.
- You can add more than one of the same tool in a MySet.

In active MySet, tap the screen, it will display the Bottom Row bar at the bottom of the screen. The current available tools are displayed in the center area of the bar, now you can call it tool bar, click the add button at the right of this bar to add tools, as shown in Figure 6.2-7.



Figure 6.2-7 Add a New Tool

There are 16 tools offered in this device, as shown in Figure 6.2-8, including Aspect marker, Safe marker, Center marker, Crosshatch, Anamorphic, False Color, Zebra, Waveform, Vector, Histogram, Focus Assist, Peaking, User LUT, Multi-scopes, Audio meter and Time Code.

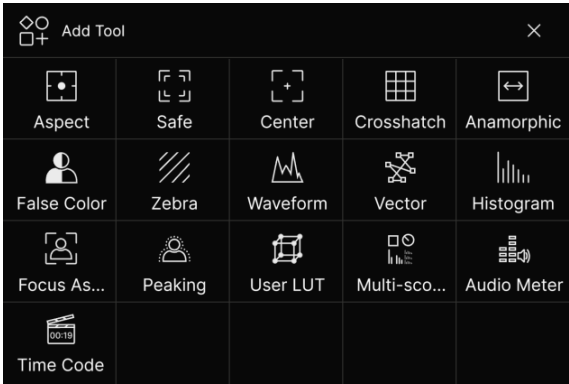


Figure 6.2-8 Tools Menu for Scene

Tap add  button to display the Add Tool menu in the center of the screen, as shown in Figure 6.2-9. Tap your desired MySet tool, and the selected tool will be added to the **Tool Bar** of the current MySet.

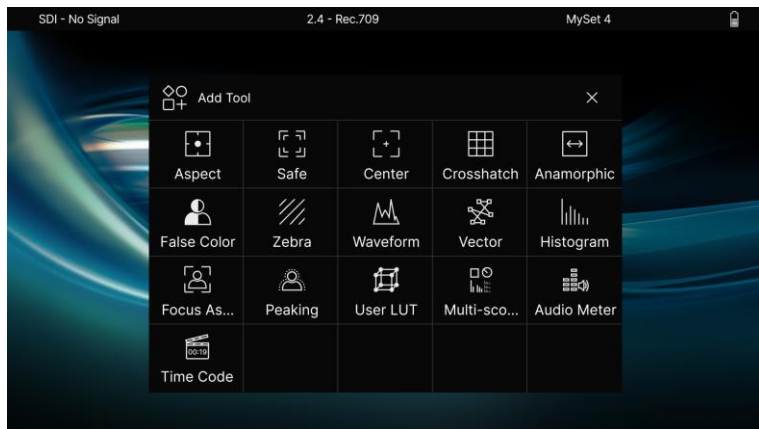


Figure 6.2-9 Add Tool Menu

For example: Add histogram to Tool Bar

Step 1 Load Tool Menu

Tap add  button to display the add tool menu, as shown in Figure 6.2-10:

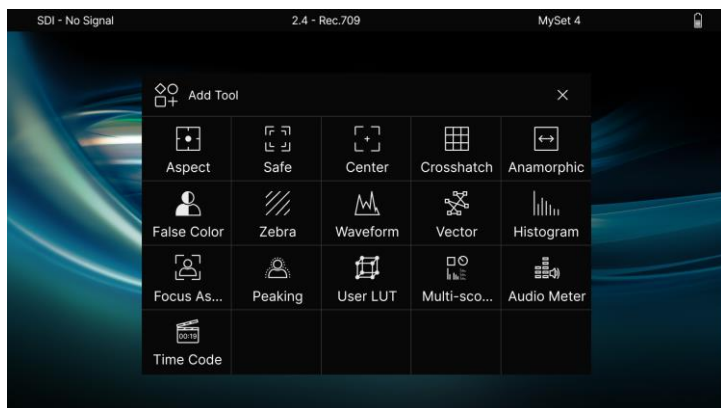


Figure 6.2-10 Add Tool Menu

Step 2 Add HISTORGRAM Tool

Tap **Histogram** item shows up, as shown in Figure 6.2-11. The **Histogram** tool icon will be added into the tool bar, as shown in Figure 6.2-12:

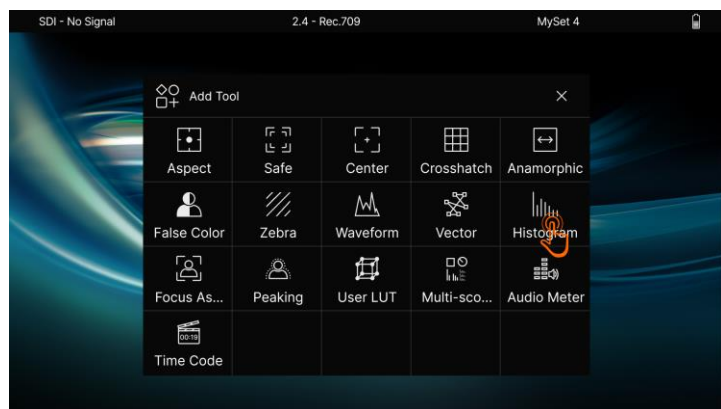


Figure 6.2-11 Choose Histogram Tool



Figure 6.2-12 Histogram in the Tool Bar

Continue to add other tools for the MySet, and you can add up to 8 tools in a MySet.

6.2.5 Load/Close Tool Bar

In a MySet, tap the screen to load or close the tool bar. The instructions are as below:

■ Load Tool Bar

Tap the center of the screen to load tool bar for current MySet, the tool bar will be displayed at the bottom center of the screen, as shown in Figure 6.2-13. The bar labeled in the orange rectangle is the tool bar for current MySet.

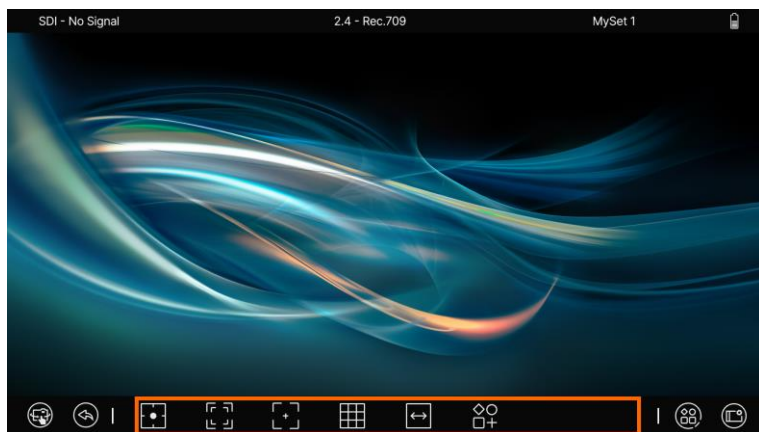


Figure 6.2-13 Tool Bar for A MySet

■ Close Tool Bar

After loading a tool bar, tap the center of the screen again to close the tool bar.

6.2.6 Turn on/off a Tool

In tool bar, follow the instructions below to turn on or off a tool swiftly:

■ Turn on a Tool

After adding a tool, tap the tool button to turn it on in tool bar, the icon will turn from white to highlight orange.



Figure 6.2-14 *Turn on a Tool*

■ **Turn off a Tool**

After turning on a tool, tap it again to turn the tool off in tool bar, the icon will turn from highlight orange to white.



Figure 6.2-15 *Turn off a Tool*

Tips

- The tool could only be turned on or off in the tool bar.

6.2.7 Tool Settings

Add tools for a MySet through the Add Tool menu, then, set a tool's attributes by the tool settings bar.

Swipe up from the tool bar to display the tool settings bar above the bottom bar, as shown in Figure 6.2-16. Tap each tool icon in the tool bar to display each tool settings menu, and set tool's attributes.

Refer to “6.1 Tools Settings” for the details of each tool.

■ Load tool settings bar

Swipe up from the tool bar to load the tool settings bar above the tool bar, as shown in Figure 6.2-16:



Figure 6.2-16 Tool Settings Bar

Tap the tool you want to configure to switch to its attributes. Take a histogram for example.

For example: Edit Histogram in a MySet.

Step 1 Activate Histogram Tool

After adding a **Histogram** tool to your MySet, tap on **Histogram** tool in the tool bar to activate it, and the icon of histogram turns highlight orange, as shown in Figure 6.2-17:



Figure 6.2-17 Activate Histogram

Step 2 Load the Tool Settings Bar

In MySet, swipe up from the **Histogram** tool to display the tool settings bar above the bottom row bar, as shown in Figure 6.2-18:



Figure 6.2-18 Tool Settings Bar

Step 3 Switch Tool Settings for the Target Tool

If you have many tools, the default attributes displayed in the tool settings bar may be for the other tool, you should change it to show your desired tool's attributes.

Tap **Histogram** tool in the tool bar, and the tool settings will switch to the contents for histogram, as shown in Figure 6.2-19.

It lists the characteristics of histogram in this menu, such as **Style**, **Position**, and **Opacity**. Tap on these items to complete the parameter settings.



Figure 6.2-19 Tool Settings Bar-HISTOGRAM

■ Close Tool Settings

Tap the return icon  at the left side of the bottom row bar or swipe down from the the tool settings bar to close the tool settings bar.

Tips

- The parameters of the tool could not be modified until selecting the tool's settings in the tool settings bar.

6.2.8 Delete a Tool

In a MySet, delete tool by the following two methods:

Method 1: Delete a tool from the tool settings bar

Swipe up from the tool bar to load the tool settings bar, and tap the tool that you want to delete. It will show the delete icon at the rightmost of the tool settings bar, as shown in Figure 6.2-20:



Figure 6.2-20 Delete a Tool

Tap the delete icon , and it will pop up a prompt to confirm the deletion, as shown in Figure 6.2-21, tap on **Confirm** button to delete, then the tool will be deleted from its tool bar.



Figure 6.2-21 Prompt for Deleting a Tool

Method 2: Delete tool from the tool bar

Long press the tool icon which you want to delete for at least 2s in the tool bar. It will pop up a prompt to confirm the deletion, as shown in Figure

6.2-22, tap on **Confirm** button to delete, then the tool will be deleted from its tool bar.

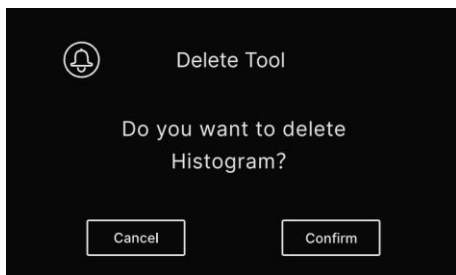


Figure 6.2-22 Prompt for Deleting a Tool

You can also delete all the tools in the MySet Edit menu to clear your desired MySet, refer to “6.2.1 MySet Edit” for the details.

Tips

- The effect or window displayed on the current MySet will be closed after the relevant tool is deleted.

Chapter 7 Camera Control

7.1 Camera Control

The Camera Control button will be greyed out/unavailable when your G7 Pro isn't set up for Camera Control, as shown in Figure 7.1-1.

Once your G7 Pro is connected to a compatible camera and configured to control it, the icon will be presented in its active state. When pressed, it will hide the bottom row menu and display a left vertical bar which will show you all the available camera control options.



Figure 7.1-1 Camera Control Button Unavailable

As shown in Figure 7.1-2, G7 Pro offers one-click switching, allowing for quick switch between monitor mode and camera mode.



Figure 7.1-2 Camera Mode & Monitor Mode

7.1.1 Camera Control Setup

Please follow the setup instructions down below:

Step 1 Device Connection

First, connect the control cable to the G7 Pro's USB-C interface according to the type of control interface of your camera, and connect the camera to the monitor via an HDMI cable, then power on your G7 Pro and camera, and switch your camera into Movie mode after powered it on.

Tips

- Upon connecting a supported camera through the USB-C interface, control over the following features is available (depending on camera capabilities): aperture, shutter speed, white balance, and ISO, etc.

Step 2 Activate Camera Control in Monitor Settings

Second, ensure that the camera control is activated on your monitor. That is, tap on the monitor settings icon  to display the monitor settings menu on screen, set **Control**→ **Control Mode** item to **Camera** in the monitor settings, as shown in Figure 7.1-3. You can change the trigger mode by setting **Control**→ **Trigger Mode** to **Video** or **Photo** in this menu, too. Now, you have enabled your monitor's camera control.

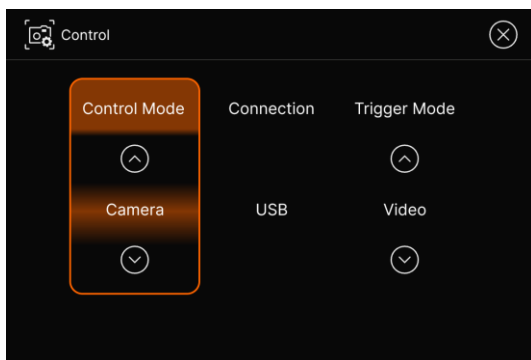


Figure 7.1-3 Camera Control Menu

When your camera is detected by the monitor, it will display the Manufacturer and Camera Model automatically in the Control menu, as shown in Figure 7.1-4.

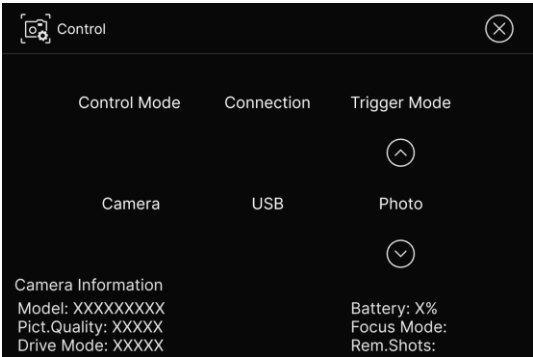


Figure 7.1-4 Camera Information

Furthermore, in order to get the camera status in the status bar of the monitor, you should make sure the status bar is set to **On**.

Tap on the monitor settings icon  to display the monitor settings menu on screen, set **Status Bar**→ **Options** item to **On** in the monitor settings, as shown in Figure 7.1-5, thus, you will get the status of the camera in the top bar.

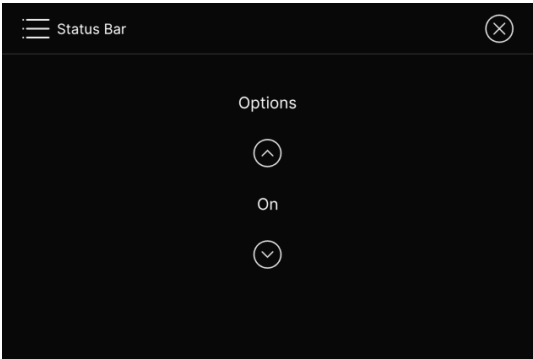


Figure 7.1-5 Camera Status Bar

Step 3 Switch to Camera Control

Then, the Camera Control icon in the bottom row menu is turned from grey to white that you can switch to camera control now, as shown in Figure 7.1-6.



Figure 7.1-6 Camera Control Button Available

Tapping on the camera control/monitor icon  at the leftmost of the bottom row bar, it will display the camera control menu on the left side of your screen, including Aperture, Shutter Speed, White Balance, and ISO controls, etc. Tap the center of your screen to hide or display this bar, as shown in Figure 7.1-7.

Tapping on the camera control/monitor icon  at end of the camera control bar, it will switch back to monitor control.



Figure 7.1-7 Camera Control Bar

For maximum control, we recommend setting the camera to manual exposure and white balance mode.

Step 4 Monitor the Camera's Status on G7 Pro

As shown in Figure 7.1-8, you can also monitor the camera's status on G7 Pro. In the status bar, it will display the informations of the current camera: Camera Model, Record Format/Picture Quility, Record Codec/Picture Drive Mode, Foucs Mode, Record Remine Time/Capture Remine Shots, Camera Battery from left to right.

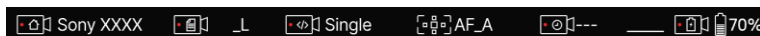


Figure 7.1-8 Camera Status Bar

Step 5 Switch Camera Mode

You can directly trigger the camera's photo or video function through the G7 Pro's touchscreen, and easily switch between picture mode and video mode in the monitor settings menu.

When controlling the camera, we provide a convenient way to switch the camera directly without switching to the monitor mode. Tap the status bar, the Control menu will appear in the center of the screen, as shown in Figure 7.1-9, thus you can change the **Trigger Mode** item to **Video** or **Photo** quickly to the corresponding mode.

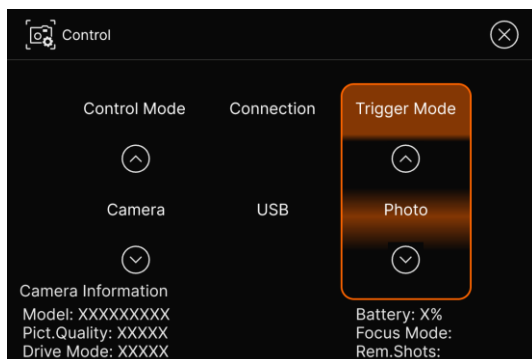


Figure 7.1-9 Switch Trigger Mode for Camera

When the **Trigger Mode** item is set to **Photo**, tap the Photo Capture icon  at the center of the camera control bar at the left side of the screen, as shown in Figure 7.1-10, you can control the camera capture function on G7 Pro.

When the **Trigger Mode** item is set to **Video**, tap the Video icon  at the center of the camera control bar at the left side of the screen, you can control the camera video function on G7 Pro.



Figure 7.1-10 Take Photo Tool in Camera Control Bar

Step 6 Control the Camera

You can control the camera settings including Aperture, Shutter Speed, White Balance, and ISO controls, etc. For example, tap the Aperture icon, it will display the parameter menu at the right side of the camera control bar, as shown in Figure 7.1-11:



Figure 7.1-11 Camera Control Bar

Tips

- When your G7 Pro is connected to your camera via USB-C, it may supply the camera with USB PD power connected to the monitor if the camera supports that.

7.1.2 Camera Control Tools

The default and range of the parameters displayed in the camera control tools are getting from the camera your connected with currently.

Please configure the settings based on the actual parameters and usage of the camera, they will not be listed one by one here.

Table 7.1-1 Description of Camera Control Tools

Items	Default	Domain Range	Description
Shutter Speed	--	--	Set the shutter speed
Aperture	--	--	Set the aperture (electronically controlled lenses only)
Camera Recording/Photo	Off	On/Off	Start or stop the camera recording/taking photo
ISO	--	--	Set the ISO
White Balance	--	--	Set the white balance

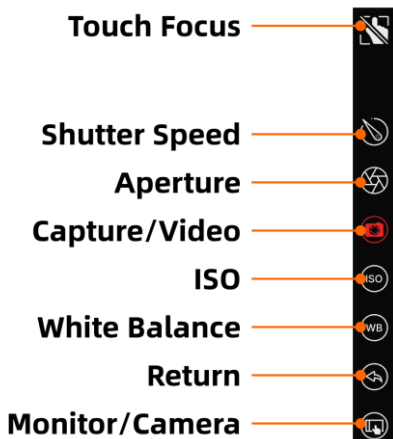


Figure 7.1-12 Camera Control Tools

Chapter 8 Specifications

8.1 Product detailed information

Specification	Values
Model	G7 Pro
Display	
Dimension	6.97"
Aspect Ratio	16:9
Viewing Angle (HxV)	170° (H)*170° (V)
Resolution	1920×1080
Contrast	1000:1
Brightness	3000nits
Input Signal Formats	
	4Kp30/29.97/25/24/23.98
	2160p30/29.97/25/24/23.98
HDMI	1080p(60/59.94/50/30/29.97/25/24/23.98)
	1080i(60/59.94/50)
	720p(60/59.94/50)
	1080p(60/59.94/50/30/29.97/25/24/23.98)
SDI	1080i(60/59.94/50)
	720p(60/59.94/50)

Specification	Values
Connector Type	
HDMI	HDMI IN/OUT
SDI	SDI IN/OUT
Audio	3.5mm Mini Jack
Control	USB-C(Color Calibration/Camera Control/Power)
SD Slot	SD card(FAT32), load LUT/update firmware
Power	
Input Voltage	DC IN 6~17V
Battery Types	NP-F Series
PD Input	USB-C, PD 9V(12V)
PD Output	USB-C, PD(9V), (powered by battery)
Consumption	16W
Environmental	
Operating Temperature	0° C~40° C
Dimensions(Bare Monitor)	179.0(mm) ×111.6(mm) ×28.9(mm)
Weight (without Battery)	410g
Features	
Image Scale	Yes
Anamorphic De-squeeze	Yes
Image Rotate	Yes

Specification	Values
Cross Hatch	Yes
Center Marker	Yes
Safe Marker	Yes
Area Marker	Yes
Focus Assist	Yes
Peaking	Yes
Pixel Zoom(1~4X)	Yes
False Color	Yes
Zebra	Yes
Waveform	Yes
Vectorscope	Yes
RGB Parade	Yes
Histogram	Yes
Audio Meters	Yes
Color Profiles for Cameras	Yes
LUT Loaded via SD Card	Yes
Firmware Upgrading	Yes
Language	Yes

*The unit about the appearance attributes in above table is mm.

8.2 Dimensions

The description of the G7 Pro dimensions are as shown in the following figures(Unit: mm):

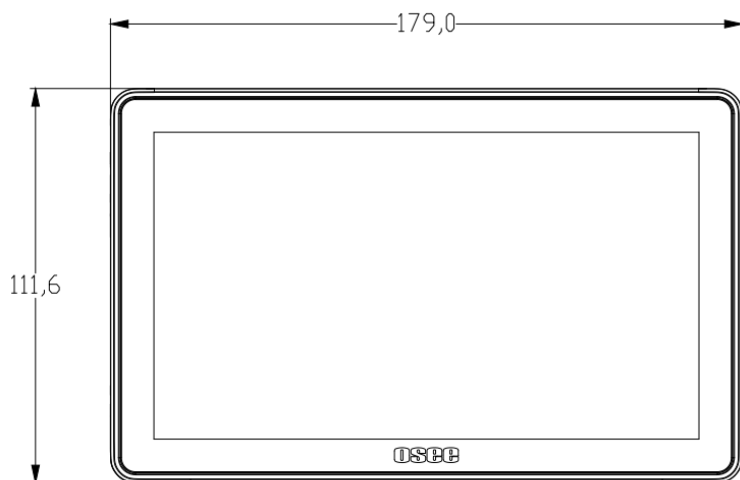


Figure 8.2-1 Front View(Unit: mm)

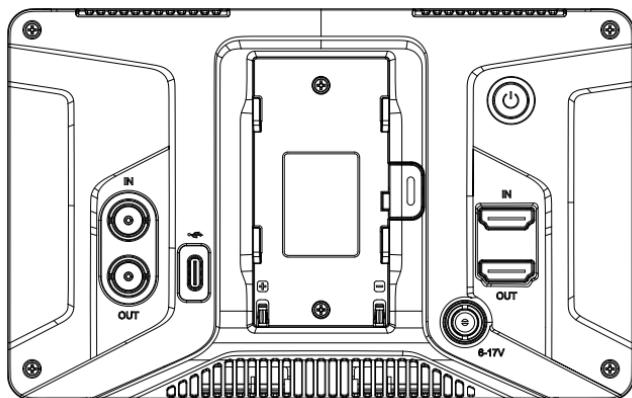


Figure 8.2-2 Back View(Unit: mm)

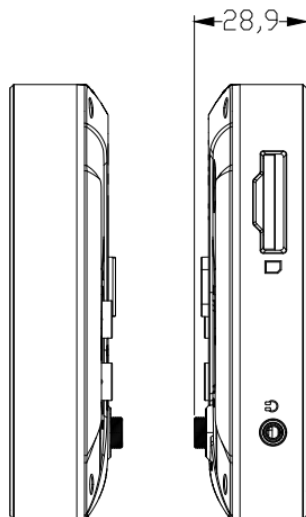


Figure 8.2-3 Side View(Unit: mm)

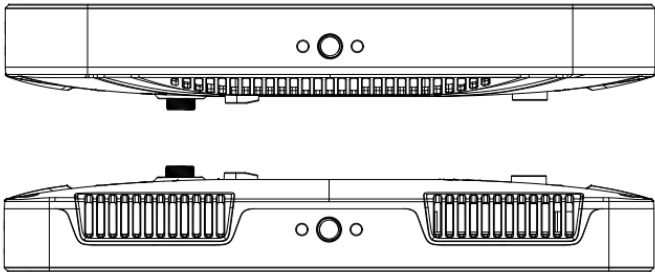


Figure 8.2-4 Top View (Unit: mm)

i Tips

- Specifications are subject to change without notice.

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