

T5 4K ULTRAHD

ON CAMERA Monitor User Manual

ISPPOSEE TECHNOLOGY LTD.

Product Information

Model:T5 4K ULTRAHD ON CAMERA MonitorVersion:V010001Release Date:August 4th, 2021

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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:

T5 4K ULTRAHD

The images and descriptions of T5 4K ULTRAHD are adopted as examples in the following document.

Before reading the manual, please confirm the device type.



Contents

Contents	I
Chapter 1 Overview	1
Chapter 2 Safety	3
Chapter 3 Unpack and Installation	7
Chapter 4 Features	13
4.1 Parts and Functions	13
4.2 Buttons and Functions	14
4.3 Operations	14
4.4 Power On	17
4.5 ZOOM	18
4.6 Supported Signal Format	21
Chapter 5 Monitor Settings	23
5.1 Menu Operations	24
5.2 Monitor Menu	
5.2.1 INPUT 5.2.2 Controls	
5.2.3 User	
5.2.4 System	31
Chapter 6 Scenes and Tools	41
6.1 Scenes Tools Settings	41

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6.1.1 Frame Tools	43
6.1.2 Expose Tools	47
6.1.3 Focus Tools	55
6.1.4 Look Tools	
6.1.5 Scale Tools	
6.2 Tools Operations	64
6.2.1 Add a Scene	
6.2.2 Delete a Scene	65
6.2.3 Add a Tool	66
6.2.4 Load/Close Tool Bar	69
6.2.5 Open/Close a Tool	70
6.2.6 Tool Settings	
6.2.7 Delete a Tool	73
Chapter 7 Specifications	77
7.1 Product detailed information	77
7.2 Dimensions	79



Chapter 1 Overview

T5 4K ULTRAHD is a high-performance UHD HDMI On Camera Monitor to monitor professional 4K HDMI for outdoor photography.

The unit is designed in a high impact plastic frame, and the professional screen glass at full resolution of 1920x1080 with 450nit brightness makes T5 4K ULTRAHD capable of reproducing a natural color. In addition, the monitor has excellent assistants functionalities, versatile build-in 3D-LUTs and easy to use.



Figure 1-1 A Diagram of T5 4K ULTRAHD

Features

- Support 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: level, zebra, focus assist, exposure assist, peaking adjust

- Provide a five directions joystick as a navigation tool to scroll between scenes pages and set features
- Support SONY NP-F and Canon LP-E6 series batteries
- Provide optional dummy battery adaptors to output battery DC power to cameras

Functionality

- Provide versatile build-in 3D-LUT tables, supporting the general LUT files for ARRI, RED, SONY, Panasonic, Canon, BlackMagic and Panavision, etc. And you can upload custom 3D LUTs through SD card and apply to the On Camera monitor
- Support Anamorphic Desqueeze functionality in multiple modes: 1X, 1.33X, 1.5X, 1.66X, 2X, 2XMAG
- Support Image ZOOM functionality to double(2X) or quadruple(4X) the image, 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

Safety



warnings.

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 T5 4K ULTRAHD 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 3-1Packing List

No.	Item	Quantity
1	T5 4K ULTRAHD	1
2	Sunhood	1
3	L Type Hanger	1
4	HDMI TypeA to HDMI Micro 30cm Cable	1
5	HDMI TypeA to HDMI TypeA 30cm Cable	1
6	HDMI TypeA to HDMI Mini 30cm Cable	1
7	Warranty Card	1
8	Certificate card	1

Optional Accessories: (sold separately)

When powered by battery, the BATT OUT interface can output battery DC power to external cameras by using the dummy battery adaptors. We provide the following four optional dummy battery adaptors:

Туре	Description
T5-Kit1	Optional, including SONY NP-FW50 dummy battery and HDMI Micro cable

Туре	Description	
T5-Kit2	Optional, including SONY NP-FZ100 dummy battery and HDMI Micro cable	
T5-Kit3	Kit3 Optional, including Panasonic DMW-BLF19 dummy battery and HDMI Micro cable	
T5-Kit4	Optional, including CANON LP-E6 dummy battery and HDMI Mini cable	

nsee



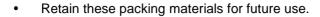
Figure 3-1 Connect BATT OUT to Dummy Battery

Installation:

1. Prepare for installation

Please follow the procedures below before installing T5 4K ULTRAHD:

- 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.



- 2. Connect required cables for signal input and output.
- 3. Connect the 5~17VDC power source through DC IN micro USB interface or powered by battery.
- 4. As a final step, turn on the device by toggling the power switch located on the rear of the unit.

Install Battery:

nsee

Only support SONY NP-F series and Canon LP-E6 battery currently. The battery slot is bidirectional, and please take note of the battery installation direction according to the "NP-F" or "LP-E" icon near the slot when mounting the battery. The icons are as shown in the following illustration, slide the battery down into the slot until heard a click.

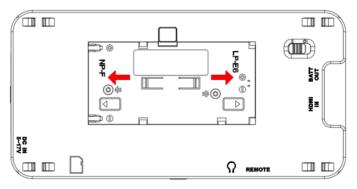


Figure 3-2 Battery Installation

Install Sunhood:

In case of diffusion light and direct illumination, we can use sunhood for the monitor when supervising images.

First, spread the sunhood along the fold lines, then pull the rubber belts into the depressed slots at both sides of the rear panel of the monitor, adapting to the monitor tightly as below:

osee

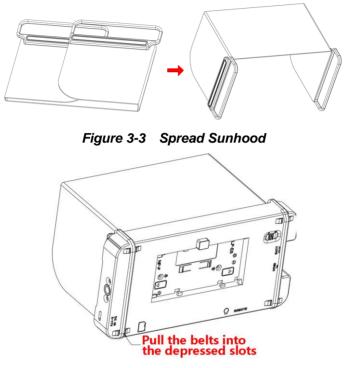


Figure 3-4 Fasten the Belts

Hanger Installation:

There are two 1/4 inch screw holes on the monitor for installing various types of hangers, as shown in the illustration below. Screw the hanger into the screw hole, and fasten it tightly.





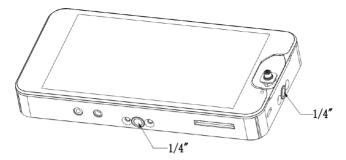


Figure 3-5 Positions for Hanger Installation



Connect a standard signal line to the relevant input port.





Chapter 4 Features

4.1 Parts and Functions

The parts of T5 4K ULTRAHD is shown as below, there are various input and output interfaces for T5 4K ULTRAHD monitor, as shown in Figure 4.1-1.

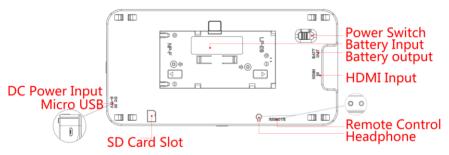


Figure 4.1-1 Parts in Rear Panel

No.	Connector	Description
1	Power Switch	Switch to " " position to power on; and switch to "O" position to power off
2	DC IN	DC power input, 5 ~ 17VDC, Micro USB
3	Battery Input	External battery NP-F/LP-E6, 6V ~ 8.4V
4	BATT OUT	Battery output
5	HDMI IN	HDMI input interface, supports HDCP, compatible DVI1.0. HDMI Tvpe-A
6	Remote	Remote control, headphone output, 2.5mm Jack



No.	Connector	Description	
7	Ω	Headphone output jack, 3.5mm stereo Jack	
8		SD card slot, the SD card is used to load the customized LUT tables, and update the device.	

* Support SONY NP-F and Canon LP-E6 battery currently.

4.2 Buttons and Functions

The monitor provides a Joystick at the front panel, as shown in Figure 4.2-1. It is used for monitor settings, adding tools for scenes, tools settings, zoom image and so on.

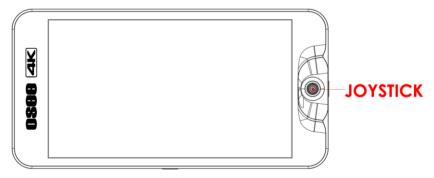


Figure 4.2-1 Buttons in Front Panel

4.3 Operations

Joystick

Use the joystick as a navigation tool to scroll between scenes pages and set features. The joystick provides multiple functions with five operation

directions, **Up**, **Down**, **Left**, **Right** and **Straight Down**, as shown in Figure 4.3-1.

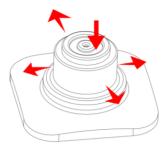


Figure 4.3-1 Five Operation Directions for Joystick

c scroll it leftmost and hold on for 3 seconds to access the monitor settings menu

Im: scroll it right and hold on for 3 seconds to create a new scene

: scroll it up to access ZOOM mode

: cancel the settings, return to the previous menu or quit menu settings.

: scroll it down to display the scene TOOL menu

Direction	Operation
UP	Without any menu, scroll up to access ZOOM mode. Keep scrolling up, and switching among these three modes FULL \rightarrow 2X \rightarrow 4X; In ZOOM 2X or ZOOM 4X editing mode, scroll up the joystick to move the starting position of the enlarged image; In monitor settings, scroll down to select the previous item or increase the item value; In scene tool menu, scroll down to select the previous item or

Features



Direction	Operation		
	increase the item value.		
DOWN	In ZOOM mode, scroll down to exit ZOOM mode. In ZOOM 2X or ZOOM 4X editing mode, scroll up the joystick to move the starting position of the enlarged image; In monitor settings mode, scroll down to select the next item or decrease the item value; In scene tool menu, scroll down to select the next item or decrease the item value;; In scene page, scroll down to select the delete scene command.		
LEFT	Without any menu, scroll leftmost and hold on for 3 seconds to access the monitor settings menu; In ZOOM 2X or ZOOM 4X editing mode, scroll left the joystick to move left the starting position of the enlarged image; In monitor settings mode, scroll left to return to the previous level menu, or decrease the item value; In a tool bar of a scene, scroll left to return to the previous level menu, or the downward adjustment the item value.		
RIGHT	Without any menu, scroll right to access a scene, or scroll right and hold on for 3 seconds to create a new scene; In ZOOM 2X or ZOOM 4X editing mode, scroll right the joystick to move right the starting position of the enlarged image; In monitor settings menu, scroll the joystick right to access the next level menu, or increase the item value; In a tool bar of a scene, scroll right to access the next level menu, or the upward adjustment the item value.		
STRATIGHT DOWN	In ZOOM 2X or ZOOM 4X mode, press straight down the joystick to access editing the starting position of the enlarged image mode; In ZOOM 2X or ZOOM 4X editing mode, press straight down the joystick to confirm and finish the adjusting of the starting position of the enlarged image; In a scene, press straight down to display the Tool menu; In a tool bar of a scene, press straight down the joystick to enable or disable the selected tool; In monitor settings mode, press straight down the joystick to		



Direction	Operation	
	access the next level menu, or confirm the selection of the last level menu item and return to the previous level menu.	

4.4 Power On

The power switch is on the right corner of the rear panel of T5 4K ULTRAHD. Use it to power the T5 4K ULTRAHD on or off.

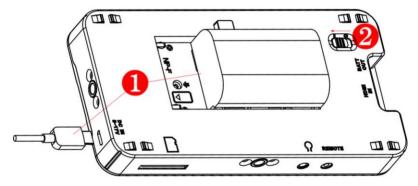


Figure 4.4-1 Power Switch

Power Method

There are two methods for powered T5 4K ULTRAHD as below:

Method 1: Powered by battery. There is a built-in bidirectional battery slot at the rear panel of the monitor. It supports both SONY NP-F series and Canon LP-E6 batteries. ($6V \sim 8.4V$)

Method 2: Powered by DC power input. Use smart phone charger or power bank to connect external power through the Micro USB DC IN interface. (5 \sim 17VDC)

Power On Operation

First, install the battery or connect the power cord.

Second, switch the power switch to "|" position, the device is powered on, and the control buttons on the front panel are lit up in highlight white.

🚹 Tips

- It will display the boot screen after power on for 3~4 seconds.
- The BATT OUT interface could offer a power output when amounting battery in the device.
- Only use the adapter and the power cord specified by the manufacture for your safety!

4.5 **ZOOM**

You can get closer view to your image in ZOOM mode. It provides 2X ZOOM mode and 4X ZOOM mode, that is you can double(2X) or quadruple(4X) the image, and move the starting position of the enlarged image.

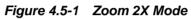
1. ZOOM 2X

Enter Zoom 2X Mode

Scroll right the joystick to access a scene, and then scroll up the joystick to access **Zoom 2X** mode, the image is twice as large as the original one. There will be a Zoom 2X icon at the bottom right of the screen, as shown in Figure 4.5-1







Zoom 2X Editing Mode

After accessing the Zoom 2X Mode, press straight down the joystick to move the starting position of the enlarged image.

There will be a Zoom 2X Editing icon at the bottom right of the screen, as shown in Figure 4.5-2. The small rectangle with four direction arrows in this icon represents the current full screen image in the monitor, you can judge where this area is in the original image.

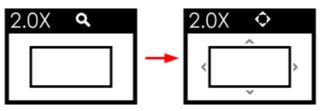


Figure 4.5-2 Zoom 2X Editing Mode

Moving the zoomed image

Meanwhile, scroll up, down, left or right the joystick to move the displayed area to the relevant direction, then, press straight down the joystick to confirm and finish the movement and exit the Zoom 2X Editing mode.

2. ZOOM 4X

Enter Zoom 4X Mode



Scroll up the joystick to show the **Zoom 2X** mode, and then keep scrolling the up the joystick to show the **Zoom 4X** mode, the image is four times as large as the original one. There will be a Zoom 4X icon at the bottom right of the screen, as shown in Figure 4.5-3:



Figure 4.5-3 Zoom 4X Mode

Zoom 4X Editing Mode

After accessing the Zoom 4X Mode, press straight down the joystick to move the starting position of the enlarged image.

There will be a Zoom 4X Editing icon at the bottom right of the screen, as shown in Figure 4.5-4. The small rectangle with four direction arrows in this icon represents the current full screen image in the monitor, you can judge where this area is in the original image



Figure 4.5-4 Zoom 4X Editing Mode

Moving the zoomed image

As the same as Zoom 2X editing mode, scroll up, down, left or right the joystick to move the displayed area to the relevant direction, then,



press straight down the joystick to confirm and finish the movement and exit the Zoom 4X Editing mode.

3. Original Image Mode

Original Image Mode

In Zoom 2X mode or Zoom 4X mode, press straight down the joystick, it will recover and display the original image.

🚹 Tips

• The scene tools are not editable in ZOOM 2X or ZOOM 4X mode.

4.6 Supported Signal Format

The supported signal format for this device is as shown in Table 4.6-1: *Table 4.6-1 Supported Signal Format*

Signal Format		HDMI
	4KP30/29.97	\checkmark
4KP	4KP25	\checkmark
	4KP24/23.98	\checkmark
	2160P30/29.97	\checkmark
2160P	2160P25	\checkmark
	2160P24/23.98	\checkmark
1080P	1080P60/59.94	\checkmark

Features



Signal Format		HDMI
	1080P50	\checkmark
	1080P30/29.97	\checkmark
	1080P25	\checkmark
	1080P24/23.98	\checkmark
1080	1080160/59.94	\checkmark
10801	1080 50	\checkmark
720P	720P60/59.94	\checkmark
720P	720P50	\checkmark
576P50	576P50	\checkmark
480P60	480P60	\checkmark



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 settings contains the settings on input, volume, backlight, display rotate, anamorphic, DSLR scale, status display menu, LUTs, language, firmware and so on, as shown in Figure5-1.

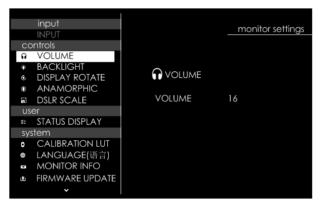


Figure 5-1 Monitor Settings Menu

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



Figure 5-2 Tools for T5 4K ULTRAHD 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 the Monitor Settings Menu

Scroll leftmost the **Joystick** to display the monitor settings Menu at the left side of the screen, as shown in Figure 5.1-1:



Figure 5.1-1 the Structure of the Monitoring Settings Menu

The menu interface is divided into two parts: **Level one menu** and **Level two menu**. Follow the instructions below:

Menu List for Monitor Settings

The level one menu is the main menu list for monitor settings, including **input output**, **controls**, **user**, and **system**.

Scroll up and down the **Joystick** to navigate to the level one menu of the monitor settings and select a menu item. The selected menu item will be highlighted in a control icon.

Submenu for Monitor Settings

The details of the selected menu item is located at the center right of the screen. You can check the content of the current menu item.

Scroll straight down the joystick, it will access the level two menu page, and the control icon followed. Then, scroll up or down to select the





submenu item, after that, scroll left or right to switch or adjust the value of the selected submenu item, at last, Scroll straight down to return to the previous level menu and confirm the setting.



• The control icon is displayed as a highlight white rectangle at the background of the current active item.

5.2 Monitor Menu

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

5.2.1 INPUT

The **INPUT** menu provides HDMI input, as shown in Table 5.2-1:

 Table 5.2-1
 Description of INPUT Menu

	Menu	Items	Description		
	INPUT	HDMI	Select the input signal source		
Tips					

• The **INPUT** menu can't be modified.

5.2.2 Controls

The **CONTROLS** menu items are used to adjust volume, backlight, rotating image, and set anamorphic ratio and image size from DSLR device. The menu items are as shown in Figure 5.2-1:



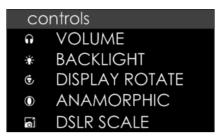


Figure 5.2-1 Controls Menu

Table 5.2-2 Description of Controls Menu Items

Menu	Items	Default	Domain Range	Description
VOLUME	VOLUME	16	0~31	Adjust the volume
BACKLIGHT	BACKLIG HT	8	0~10	Adjust the backlight
DISPLAY	SCREEN ROTATE	AUTO	AUTO/0/ 180	Rotate the image and menus
ROTATE	IMAGE ROTATE	180	0/180	Rotate the image
ANAMORPHIC	OPTIONS	1X	1X/1.33X/ 1.5X/1.66 X/2X/ 2XMAG	Set the anamorphic ratio
DSLR SCALE	OPTIONS	NONE	NONE/ CANON 5D MARK II/CANON 7D	Enable the input signal from a variety of DSLR cameras to fill the screen of T5 4K ULTRAHD. This item is particularly to CANON/NIKON DSLR.

1. Adjust Volume

Select **control** \rightarrow **VOLUME** item, scroll straight down to confirm the selection and display the VOULME menu, as shown in Figure 5.2-2. Scroll left to decrease the volume, or scroll right to increase the volume. Scroll it down to return to the previous level menu.



Figure 5.2-2 Volume Menu

2. Adjust Backlight

Select **control** \rightarrow **BACKLIGHT** item, scroll straight down to confirm the selection and display the BACKLIGHT menu, as shown in Figure 5.2-3. Scroll left to decrease, or scroll right to increase the backlight.



Figure 5.2-3 Backlight Menu

3. Display Rotate

Screen Rotate

Set control→Display Rotate→ Screen Rotate item to be 180, 0 or AUTO, the input image will reverse vertically with the menus, as shown in Figure 5.2-4:





Original Image

Reverse Image

Figure 5.2-4 Vertical Rotate

Image Rotate

Set control→Display Rotate→ Image Rotate item to be 180 or 0, the input image will reverse vertically.

4. 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.

Select **control** \rightarrow **ANAMORPHIC** item, scroll straight down to confirm the selection and display the **ANAMORPHIC**, as shown in Figure 5.2-5, scroll left or right to cycle through these anamorphic ratios: 1X, 1.33X, 1.5X, 1.66X, 2X, 2XMAG.



Figure 5.2-5 ANAMORPHIC Menu

The resolution of the input and output are as shown in Table 5.2-3:

 Table 5.2-3
 Resolution Relationship Between Input and Output

ANAMORPHIC	INPUT SIGNAL	INPUT	OUTPUT
1X	1080P/1080I	1920x1080	1920x1080
	720P	1280x720	1920x1080
1.33X	1080P/1080I	1920x1080	1920x812
	720P	1280x720	1920x812
1.5X	1080P/1080I	1920x1080	1920x720
	720P	1280x720	1920x720
1.66X	1080P/1080I	1920x1080	1920x650
	720P	1280x720	1920x650
2X	1080P/1080I	1920x1080	1920x540
	720P	1280x720	1920x540
2XMAG	1080P/1080I	1290x720	1920x803
	720P	860x720	1920x803

5. DSLR SCALE

This function is designed for some DSLR cameras (CANON 5D MARK II, CANON 7D). The valid area which will fill the screen is controlled by **control** \rightarrow **DSLR SCALE** item selection.

When the input source is coming from CANON 5D MARK II or CANON 7D DSLR device, but the **control→DSLR SCALE** item is set as **NONE**, the **DSLR SCALE** function is disable, there will be blank area at the surrounding of the image. Otherwise, set as the relevant DSLR model, it will enlarge and display the image at full screen, removing those useless blank bars, as shown in Figure 5.2-6:





DSLR SCALE=NONE



DSLR SCALE=CANNON 5D MARK II/ CANNON 7D

Figure 5.2-6 DSLR SCALE

For different **DSLR SCALE** item value, the resolution comparison of the input and output is as shown in the table below:

DSLR SCALE Item	INPUT RESOLUTION	OUTPUT RESOLUTION
NONE	1920X1080	1920x1080
CANNON 5D MARK II	(1920X1080)x0.85	1920x1080
CANNON 7D	(1920X1080) x0.85	1920x1080

5.2.3 User

The **User** menu items are used to set the status display bar, Fast mode, multiple images display mode and settings, backlight, auto standby mode, aperture, language mode, horizontal flip, and uniformity, the menu items are as shown in Figure 5.2-7:



Figure 5.2-7 User Settings Menu Table 5.2-4 Description of User Menu Items



Menu	Items	Default	Domain Range	Description
STATUS DISPLAY	OPTIONS	OFF		Enable/disable the status bar at the top of the screen

1. STATUS BAR

Set **user**->**STATUS DISPLAY** item to be **ON**, it will display the Status bar at the top of the screen, including these information from left to right: Input source format and the battery voltage indication.

T T
ttery Voltage Indication

Figure 5.2-8 Status Bar

INPUT FORMAT

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

- **UNKNOWN**: appears if an unsupported signal is input.
- **NO SIGNAL**: appears if no signal is detected.
- □ **Normal**: the signal format is displayed as HDMI 1080i59.94, etc. when the input is supported by the monitor.

5.2.4 System

The **system** menu provides calibration, language selection, firmware update, LUT file loading and factory reset operations, as shown in Figure 5.2-9:



system

- CALIBRATION LUT
- LANGUAGE(语言)
- MONITOR INFO
- FIRMWARE UPDATE
- ₽ LOAD LUT FILE
- FACTORY RESET

Figure 5.2-9 System Menu

Table 5.2-5 Description of System Menu Items

Menu	Items	Default	Domain Range	Description
	COLOR TEMP	NATIVE	NATIVE/ D56/D65 /D93/ USER	Select a calibration standard for the panel
	GAMMA	2.2	2.2/2.4	Set Gamma
	CALIBRATION LUT	ON	ON/OFF	Enable/disable calibration LUT
CALIBRATI	BRIGHTNESS	50	0~100	Adjust the brightness
ON LUT	SATURATION	50	0~100	Adjust the saturation
	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
	RGB GAIN RESET			Reset R,G,B GAIN
	COLOR FROM	D65	D56/D65	Copy this parameter value to



Menu	Items	Default	Domain Range	Description
			/D93	USER
	INPUT LEVELS	VIDEO	VIDEO: 64~940 FULL: 0~1023	Set color range
LANGUAGE	OPTIONS	中文	ENGLIS H/ 中 文 / Franais/ Espaol	Select a language mode
	VERSION			Show the firmware versions
MONITOR INFO	SERIAL NUMBER			Show serial number
	MODEL			Show device model
FIRMWAR E UPDATE	EXECUTE FIRMWARE UPDATE			Execute firmware update
LOAD LUT FILE	EXECUTE LOAD LUT FILE			Load a color look profile from SD card
FACTORY RESET	EXECUTE FACTORY RESET			Revert the factory settings
NEGEI	LOGO DISPLAY	ON	OFF/ON	Enable/disable LOGO display

1. Enable/Disable Calibration

Set **system**→ **CALIBRATION LUT** item to display the CALIBRATION menu, as shown in Figure 5.2-10:



• CALIBRATION LUT	
COLOR TEMP	D65
GAMMA	2.2
CALIBRATION LUT	ON
BRIGHTNESS	50
SATURATION	50
R-GAIN	512
G-GAIN	512
B-GAIN	512
rgb gain reset	
COPY FROM	D65
INPUT LEVELS	VIDEO
ENTER CALIBRATION CHANNI	EL

Figure 5.2-10 Calibration LUT Menu

Set system \rightarrow CALIBRATION LUT \rightarrow CALIBRATION LUT item as ON, it will be able to load LUT file.

Set system \rightarrow CALIBRATION LUT \rightarrow CALIBRATION LUT item as OFF, it will be disable to load LUT file.

2. Load LUT File

First, write the designated LUT file to the monitor.

Operation: Select system \rightarrow LOAD LUT FILE \rightarrow EXECUTE LOAD LUT FILE item to choose a LUT file from SD card.

Scroll the joystick right to display the LUT file list menu, as shown in Figure 5.2-11, scroll up or down to select a LUT type as **USER LUT**, **CAMERA LUT** or **CALIBRATION LUT**, and press the joystick straight down to confirm the selection. Then, it will pop up a series of directories for navigating to the designated LUT file, scroll up or down to select the LUT file with .cube suffix, and specify its storage directory, as shown in Figure 5.2-12, please don't cut off the power during loading.



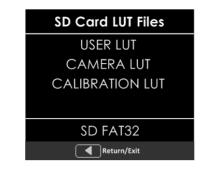


Figure 5.2-11 Calibration LUT Directory

		USER MODE	1/2
3	Return		
0	User1	LUT file	e name
ප	User2		
ත	User3		
8	User4		
8	User5		
ල ල	User6		
00	User7		
8	User8		
ප	User9		
ප	User10		
ප	User11		

Figure 5.2-12 LUT Storage Directory

For example: Load a LUT file to **USER LUT**, it will prompt a directory for LUT file selection, then select a LUT and choose a target USER LUT to be stored, as shown in Figure 5.2-12. For example, select

Monitor Settings



USER1, press the joystick straight down to confirm the selection, it will write the specified LUT file into the monitor from the SD card.

Second, use **LOOK** tool to activate a LUT to current scene.

Operation: scroll the joystick right to access a scene, and add a **LOOK** tool for the scene, for example, set the **ENABLE** item as **ON**, **SETTING** item as **USER**, and **USER LUT** as **USER1**, thus, it will apply **USER1** to current scene display. After activating a LUT file, it will be loaded to the image display immediately, as shown in Figure 5.2-13:



Figure 5.2-13 Output Image Applied with a LUT File

🚹 Tips

- Make sure to restart the device to effect the selected user LUT file after loading it to a designated LUT directory through the SD card.
- There will a "File format not support!" prompt for unavailable LUT file when executing file writing operation.
- The items about RED/GREEN/BLUE GAIN are available only in USER mode. If the COLOR TEMP sets as **USER** with customized settings, you can select the menu item **RGB GAIN RESET** command to restore product originals for Gains.
- Refer to "6.1.4 Look Tools" for the details about loading the 3D LUT file.
- Make sure your SD card is FAT32 format, otherwise, it will not be supported in this monitor.



If detecting no SD card during the operation, it will prompt "**SD Card does not exist!**"; if any other wrong happened, it will pop up the relevant prompt, please check it according to this prompt.

3. BRIGHTNESS

Set **system** \rightarrow **CALIBRATION** \rightarrow **BRIGHTNESS** item to adjust the brightness. Scroll left to decrease the brightness, or scroll right to increase the brightness.

4. R/G/B GAIN

Set system \rightarrow CALIBRATION \rightarrow R-GAIN/G-GAIN/B-GAIN item to adjust the gain values. Scroll left to decrease the gain, or scroll right to increase the gain.

5. FIRMWARE UPDATE

Select **system**→ **FIRMWARE UPDATE**→**EXECUTE FIRMWARE UPDATE** item to upgrade the firmware, it will prompt as shown in Figure 5.2-14:



Figure 5.2-14 FIRMWARE UPDATE

Scroll right to select **OK** command, and press the joystick straight down to confirm the selection. It will update the firmware from the SD card.

6. FACTORY RESET

Select system → FACTORY RESET → EXECUTE FACTORY RESET



item to initialize the settings to default values, it will pop up a prompt, as shown in Figure 5.2-15, scroll right to select **RESET** command, and press the joystick straight down to confirm the selection.

Please pay some patience during the reset operation, and it lasts about one minute. 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 5.2-16. At last, please restart the device by manual.



Figure 5.2-15 Prompt for Factory Reset



Figure 5.2-16 Boot Screen



🚹 Tips

 It lasts about one minute for restarting operation, please don't do any operations during restarting the device.





Chapter 6 Scenes and Tools

6.1 Scenes Tools Settings

You can create customized scenes pages with different features and settings in T5 4K ULTRAHD. In a scene, press the joystick straight down, and select **ADD NEW TOOL** command, and press the joystick straight down again, it will display the Tools Menu, as shown in Figure 6.1-1.

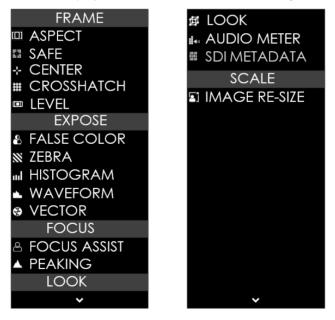
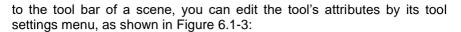


Figure 6.1-1 Tools Menu for Scene

The tools menu provides access to tools aiding in composition, focus and exposure for a scene, you can add several tools on a scene, and then they will be listed in a tool bar, as shown in Figure 6.1-2. After adding tools



nsee



Figure 6.1-3 Tool Settings Menu

It will introduce the tools and their attributes in the following section, and refer to "6.2 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 and crosshatch. Show or hide these markers by their switches easily, and their display style and transparency are adjustable.

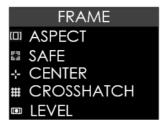


Figure 6.1-4 Frame Tools Table 6.1-1 Description of Frame Tools

ΤοοΙ	Items	Default	Domain Range	Description
	ENABLE	OFF	OFF/ON	Enable/Disable area marker display
	RATIO	4:3	4:3/1.85:1/ 2.39:1 /16:9/ CUSTOM	Select the marker type
ASPECT	WIDTH	75	25~100	Set the width of the mat area in CUSTOM mode
	HEIGHT	75	25~100	Set the height of the mat area in CUSTOM mode
	SETTING	MATTE	MATTE/ LINE	Set the mat area type is 50% darken area or line
SAFE	ENABLE	OFF	OFF/ON	Enable/Disable safe marker

ΤοοΙ	Items	Default	Domain Range	Description
				display
	FORMAT	16:9	16:9/14:9/ 4:3	Set the safe marker position
	ACTION	OFF	OFF/ON	The safe marker is displayed as an outside frame, proportional to 92% of the FORMAT
	TITLE	OFF	OFF/ON	The safe marker is displayed as an inside frame, proportional to 80% of the FORMAT in horizontal direction, and 90% of the FORMAT in vertical direction.
CENTER	ENABLE	OFF	OFF/ON	Enable/Disable crosshair display
CROSSH ATCH	ENABLE	OFF	OFF/ON	Enable/Disable crosshatch display
AICH	REGIONS	2	2~9	Set the cross line number
	ENABLE	OFF	OFF/ON	Enable/Disable the level
	CALIBRAT ION			Set the level reference for level calibration
LEVEL	SENSITIVI TY	1	1~4	Set the sensitivity for horizontal detecting. Smaller value represents more sensitive detection.

osee

1. Marker

Marker Illustration	Description
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Marker	Illustration	Description
ASPECT (AREA MARKER)	ASPECT	This marker identifies an area with a specified aspect ratio.
SAFETY MARKER	SAFE MARKER	This marker displays a rectangle to identify the safety area with a specified percentage in Area Marker.
CENTER MARKER	CROSSHAIR→+	This marker enables easier checking the center portion's focus.
CROSS HATCH	CROSS HATCH	This marker displays multiple vertical and horizontal lines to help when users check the composition of a picture.

2. Area Marker

Set the area marker **FRAME** \rightarrow **ASPECT SAFE** \rightarrow **RATIO** item as **CUSTOM**, the **WIDTH** and the **HEIGHT** of the marker are adjustable as your requirement.

And the outside area of the area maker could be filled with **FRAME** \rightarrow **ASPECT SAFE** \rightarrow **SETTING** selection, you can choose it as **MATTE** or **LINE**.

- LINE: there are two white lines labeled the area marker;
- □ **MATTE:** the outside area of marker is 50% blackness of the background, and without lines, as shown in Figure 6.1-5:





STYLE=LINE



STYLE=MATTE

Figure 6.1-5 Marker Mat Style

3. Level Calibration

Set **LEVEL** \rightarrow **ENABLE** item as **ON**, and **LEVEL** \rightarrow **SENSITIVITY** item to a proper numeric, the lower the level sensitivity is, the more sensitive the detection is.

There will be a level indicator displayed at the bottom of the screen, as shown in Figure 6.1-6 or Figure 6.1-7. The bubble in the level will be in green when the level indicates the horizontal center, and it will be in yellow when indicates a left or right offset, and it will be in red when the bubble is very closed to the leftmost or rightmost that indicates too much askew, as shown in Figure 6.1-7.

Then, set **LEVEL** \rightarrow **CALIBRATION** item, it will pop up a prompt for starting level calibrating, as shown in Figure 6.1-8:

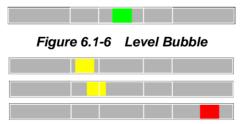


Figure 6.1-7 Level Bubbles





Figure 6.1-8 Level Calibration Prompt

Click **Yes** to execute level calibration which will set the current horizontal of the OSEE monitor to be the level reference, otherwise, click **No** to quit the calibration.

The horizontal will be recorded, and you can see the level indicator changes in green to indicate it as the level reference, then use this OSEE monitor as a level to calibrate your cameras or other recorders in order to identify them all in the same relative horizontal.

6.1.2 Expose Tools

Expose tools provide false color, zebra, histogram, waveform and vectorscope, as shown in Figure 6.1-9:



Figure 6.1-9 Expose Tools Table 6.1-2 Description of Expose Tools

Scenes and Tools



ΤοοΙ	Items	Default	Domain Range	Description
FALSE	ENABLE	OFF	OFF/ON	Enable/Disable false color function
COLOR	SETTING	Spectrum	Ref Table 6.1-3	Set the type of the false color display
ZEBRA	ENABLE	OFF	OFF/ON	Enable/Disable the zebra function that will compare the signal luminance with the ZEBRA LEVEL, and fill the relevant image area whose luminance is higher than the ZEBRA LEVEL with a zebra pattern.
	LEVEL	50	0~100	Set the reference level of detecting luminance.
	ENABLE	OFF	OFF/ON	Enable/Disable histogram display
HISTOG	SETTING	LUMA	LUMA: luminance histogram RGB: RGB histogram	Set the type of the histogram
RAM	LOCATION	top Right	Ref Table 6.1-4	Set the position of the histogram
	OPACITY	0	0: 100% 1: 75% 2: 50% 3: 25%	Set the transparency of the histogram
WAVE	ENABLE	OFF	OFF/ON	Enable/Disable waveform display
FURM	SETTING	LUMA	LUMA/RGB/	Set the type of the waveform



ΤοοΙ	Items	Default	Domain Range	Description
			PARADE	
	SIZE	SMALL	SMALL/ MIDDLE/ LARGE	Set the size of the waveform
	LOCATION	TOP RIGHT	Ref Table 6.1-4	Set the position of the waveform
	OPACITY	0	0~3	Set the transparency of the waveform
VECTOR	ENABLE	OFF	OFF/ON	Enable/Disable vectorscope display
	LOCATION	top Right	Ref Table 6.1-4	Set the position of the vectorscope
	OPACITY	0	0~3	Set the transparency of the vectorscope

1. FALSE COLOR

EXPOSURE ASSIST is also known as FALSE COLOR, 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 the **FLASE COLOR** tool to the current scene, and activate the FALSE COLOR tool. It provides various types of FALSE COLOR as below:

FALSE COLOR TYPES			
Spectrum BMD			
SONY SLOG3	BMD 4K		



FALSE COLOR TYPES				
SONY SLOG2	ARRI REC709			
ARRI LOGC	SONY LC709A			
CANON CLOG2	SONY LC709			
CANON CLOG3	PANASONIC V709			
PANASONIC VLOG	RED RG3			
RED LOG FILM	RED RG4			
RED RL3G10				

For example: Set FALSE COLOR \rightarrow ENABLE item as ON, set FALSE COLOR \rightarrow SETTING item as ARRI LogC, as shown in Figure 6.1-10:



FALSE COLOR=OFF

FALSE COLOR=ON

Figure 6.1-10 Comparison Mode- Original Image and Normal Mode Image

🚹 Tips

• The LOOK tool is incompatible with the False Color tool. That is, enable the LOOK tool, the False Color tool will be disabled automatically, and enable the False Color tool, the LOOK 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 LEVEL**, and fill the relevant image area whose luminance is higher than the **ZEBRA LEVEL** with a zebra pattern

For example, set the **ZEBRA LEVEL** as 80, the compared results are as shown in Figure 6.1-11, the special area is filled with a zebra pattern.



ORIGINAL IMAGE



ZEBRA CHCEK

Figure 6.1-11 Illustration for ZEBRA Function

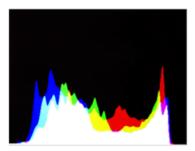
3. HISTOGRAM

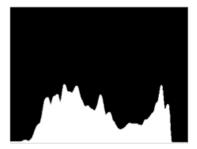
Histogram assists in judging the distribution of luminance in the image.

Histogram Type

Set **EXPOSE** \rightarrow **HISTOGRAM** \rightarrow **SETTING** item as LUMA or RGB, these two histogram types are as shown in Figure 6.1-12:







STYLE=RGB

STYLE=LUMA

Figure 6.1-12 RGB Histogram and LUMA Histogram

4. WAVEFORM

WAVEFORM SIZE

Set **EXPOSE 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 8 positions listed in LOCATION item;
- □ 75% waveform: set **SIZE** item as **MIDDLE**, and this kind of waveform is located in the center bottom of the screen, and it can't be moved;
- □ Full size waveform: set **SIZE** item as **LARGE**, and this kind of waveform is located in the bottom of the screen, and it can't be moved.
- WAVEFORM TYPE

Set **EXPOSE**→**WAVEFORM**→**STYLE** item to display the following three kinds of waveform as LUMA, RGB, PARADE, as shown in Figure 6.1-13:



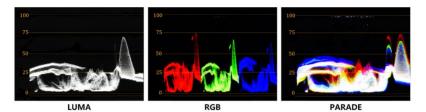


Figure 6.1-13 LUMA Waveform and RGB Waveform and PARADE Waveform

5. VECTORSCOPE

Set **EXPOSE** \rightarrow **VECTOR** \rightarrow **ENABLE** item to display or hide the vectorscope.

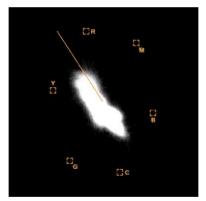


Figure 6.1-14 VECTORSCOPE

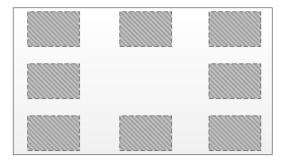
6. LOCATION

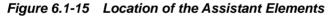
There are 8 positions for display the histogram, waveform and vectorscope on the screen, as shown in Table 6.1-4 and Figure 6.1-15. Move them through the **LOCATION** item.

Table 6.1-4 LOCATION SETTINGS



Locations				
TOP RIGHT	BOTTOM LEFT			
MIDDLE RIGHT	MIDDLE LEFT			
BOTTOM RIGHT	TOP LEFT			
MIDDLE BOTTOM	TOP MIDDLE			





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.

- □ 0: 100%, when opacity set to 0, the assistant element (histogram, waveform or vectorscope) is opaque, not transparent.
- □ 1: 75%, when opacity set to 1, the assistant element (histogram, waveform or vectorscope) is proportional to 75% opacity.
- □ 2: 50%, when opacity set to 2, the assistant element (histogram, waveform or vectorscope) is proportional to 50% opacity.



□ 3: 25%, when opacity set to 3, the assistant element (histogram, waveform or vectorscope) is proportional to 25% opacity.

For example: set EXPOSE \rightarrow HISTOGRAM \rightarrow OPACITY as 0, 1, 2, 3 separately, the comparison are as below:

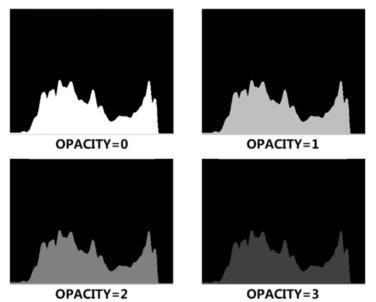


Figure 6.1-16 Different Opacity for Histogram

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 6.1-17 Focus Tools Table 6.1-5 Description of Focus Tools

ΤοοΙ	Items	Default	Domain Range	Description
FOCUS ASSIST SENS B&W	ENABLE	OFF	OFF/ON	Enable/Disable focus assist function
	COLOR	RED	STANDARD /RED /GREEN /BLUE	Select the color of the focus assist edge. For standard color, the intensified edges highlight in white.
	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.
	BACKGRO	OFF	OFF: COLOR MODE ON: BLACK &WHITE MODE	Set the Focus Assist display mode: color mode or black&white mode.
PEAKING	ENABLE	OFF	OFF/ON	Enable/Disable peaking function Over sharpen the image.
	INTENSITY	5	1~10	Set the sharpness level of the image. The higher the value, the sharpener 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 →FOCUS ASSIST →B&W BACKGROUND item as OFF, the image is in color mode, then set FOCUS →FOCUS ASSIST →COLOR to color the intensified edge.
- □ B\$W MODE: Set FOCUS →FOCUS ASSIST →B&W BACKGROUND item as ON, the image is in black and white mode, that is removing all colors and only leaving the luminance data of the signal.



B&W BACKGROUND=OFF COLOR=RED

B&W BACKGROUND=OFF COLOR=GREEN

Figure 6.1-18 Illustration for FOCUS ASSIST Function





B&W BACKGROUND=ON

Figure 6.1-19 Illustration for FOCUS ASSIST Function

6.1.4 Look Tools

Look tools provides loading 3D LUT profile and adding audio meter to current scene, as shown in Figure 6.1-20 $\,$



Figure 6.1-20 Look Tools

Table 6.1-6Description of Look Tools

ΤοοΙ	Items	Default	Domain Range	Description
LOOK	ENABLE	OFF	OFF/ON	Enable/Disable LUT profile function
LOOK SE	SETTING	CAMERA	CAMERA/ USER	Select the LUT type



Tool	Items	Default	Domain Range	Description
	CAMERA LUT	ARRI_LogC _Rec709	Ref Table 6.1-7	Select a camera LUT
	USER LUT User1 User1 \sim User16		Select a user LUT	
	USER LUT NAME			Display the user LUT name
AUDIO METER	ENABLE	OFF	OFF/ON	Enable/Disable audio meter display
	LOCATION	BOT LEFT	BOT LEFT/ BOT RIGHT	Set the position of the audio meter
	OPACITY	0	0~3	Set the transparency of the audio meter

1. LOOK PROFILE (3D LUT)

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

CAMERA LUT: preset camera logs, as shown in Table 6.1-7;

USER LUT: custom 3D LUTs from SD card.

Select **LOOK** \rightarrow **LOOK** \rightarrow **CAMERA LUT** item to choose a 3D LUT file from SD card or internal files.

Preset LUT File(CAMERA LUT)

There are versatile preset 3D-LUT tables, supporting the LUT files for ARRI, RED, SONY, Panasonic, Canon, BlackMagic and Panavision, etc.

Table 6.1-7 CAMERA LUT Files

Scenes and Tools



Preset LUT File	Company		
ARRI_LogC_Rec709	ARRI		
BMD_4.6KFilm_Rec709	BlackMagic		
BMD_4.6KFilmV3_Rec709			
BMD_4KFilm_Rec709			
BMD_4KFilmV2_Rec709			
BMD_4KFilmV3_Rec709			
BMD_CCFilm_Rec709			
BMD_CCFilmV2_Rec709			
Canon_CLog1Cine_Rec709_FF_V1.1			
Canon_CLog2Cine_Rec709_FF_V1.1	Canon		
Canon_CLog3Cine_Rec709_FF_V1.1			
DJI_Phantom3DLog_Rec709_Improv	DJI		
DJI_Phantom4DLog_Rec709			
DJI_Phantom4Dlog_Rec709_Improv	DJI		
DJI_X5DLog_Rec709_Improv			
FUJI_FLogFGamut_FLogRec709_V1			
FUJI_FLogFGamut_WDRRec709_V1	FUJIFILM		
GoPro_Protune_Rec709	GoPro		
JVC_JLog1_Rec709_Daylight			
JVC_JLog1_Rec709_Tungsten	JVC		
Panasonic_VLog_V709_V1	Panasonic		
RED_L3G10RWG_Rec709_R1_V1.13	RED		
RED_L3G10RWG_Rec709_R2_V1.13			



Preset LUT File	Company
RED_L3G10RWG_Rec709_R3_V1.13	
RED_L3G10RWG_Rec709_R4_V1.13	
RED_RedLogFilm_RG3	
Sony_SLog2SGamut_LC709	Sony
Sony_SLog2SGamut_LC709A	
Sony_SLog3SG3Cine_LC709	
Sony_SLog3SG3Cine_LC709A	

🚹 Tips

- The preset LUT files are constantly under development.
- T5 4K ULTRAHD supports color management software CalMAN currently, the customized 3D LUT profiles(*.cube) produced by these software could be loaded to SD card by a control computer.
- The LOOK tool is incompatible with the False Color(EXPOSURE

ASSIST) tool. That is, enable the LOOK tool, the False Color tool will be disabled automatically, and enable the False Color tool, the LOOK tool will be disabled automatically.

2. AUDIO METER

Set **LOOK** \rightarrow **AUDIO METER** \rightarrow **ENABLE** item as ON to 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 opacity could be set from 0 to 3. Refer to "6.1.2 Expose Tools--7 OPACITY" for the details about OPACITY.

The volume in normal range appears in green, above -20dB but

below -10dB appears in yellow, and above -10dB appears in red, as shown in Figure 6.1-21:

nsee



Figure 6.1-21 Audio Meter

6.1.5 Scale Tools

Scale tool is used to adjust the horizontal and vertical size of the screen, as shown in Figure 6.1-22



Figure 6.1-22 Scale Tools

Table 6.1-8 Description of Scale Tools

ΤοοΙ	Items	Default	Domain Range	Description
	ENABLE	OFF	OFF/ON	Enable/Disable image scale function
IMAGE RE-SIZE	LOACTION	TOP LIGHT	TOP RIGHT MID RIGHT BOT RIGHT MID BOT BOT LEFT MID LEFT TOP LEFT TOP MID CENTER	Set image position on screen

- 1. IMAGE SCALE
- Activate Image Scale Function



Set SCALE \rightarrow SCALE \rightarrow ENABLE item as ON, the image scale is activated. The image size changes to 75% of the original one, and after scaling down, the blank area will be filled with black, as shown in Figure 6.1-23:



Size=100



Size=75

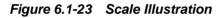


Image Position

There are 9 positions for display the small image on screen, they are TOP RIGHT, MIDDLE RIGHT, BOTTOM RIGHT, MIDDLE BOTTOM, BOTTOM LEFT, MIDDLE LEFT, TOP LEFT, TOP MIDDLE and CENTER, as shown in Figure 6.1-24. Move it through the **LOCATION** item.

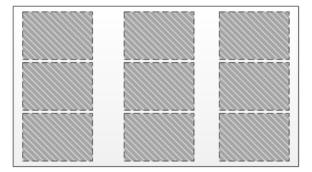


Figure 6.1-24 Image Position



6.2 Tools Operations

It will introduce how to edit scene and its tools in this section.

6.2.1 Add a Scene

You can customize up to 8 scenes in T5 4K ULTRAHD for various requirement, and switch swiftly among these scenes by joystick operations.

Scroll the joystick right and hold for 3 seconds to add a new scene, it will

prompt "Add New MySet command in the bottom center of the screen, as shown in Figure 6.2-1, press the joystick straight down to confirm the operation.

The scene will be numbered in sequence, and the name (a scene icon followed by a number) will be displayed at the bottom center of the screen, as shown in Figure 6.2-2:

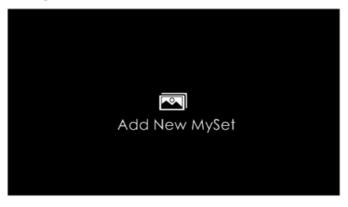


Figure 6.2-1 Add New MySet







🚹 Tips

- T5 4K ULTRAHD supports up to 8 customized scenes.
- No.1 scene exists by default.

Scroll the joystick left or right to switch among scenes.

6.2.2 Delete a Scene

Scroll the joystick down in a scene, it will display the **DELETE** command at the bottom of the screen, as shown in Figure 6.2-3. Press the joystick straight down to confirm deletion, and there will be a waiting prompt during the deletion. Wait until the prompt disappeared, then the scene deletion is completed.



Figure 6.2-3 Prompt for Delete a Scene

🚹 Tips

• No.1 scene can't be deleted.

6.2.3 Add a Tool

After creating a scene, add some tools to assist in composition, for example, add a marker, waveform, histogram or audio meter, etc.

🚹 Tips

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

Scroll the joystick down, it will pop up the "**ADD NEW TOOL**" command, as shown in Figure 6.2-4. Press the joystick straight down to confirm, and it will pop up the **Tools Menu** on screen, as shown in Figure 6.2-5:



Figure 6.2-4 Add a New Tool



Figure 6.2-5 Tools Menu for Scene

Scroll the joystick up or down to select your desired scene tool, and press the joystick straight down to confirm, the selected tool will be added to the **Tool Bar** of the current scene.

For example: Add histogram to Tool Bar

Scroll the joystick up or down to **HISTORGRAM** item, as shown in Figure 6.2-6, press the joystick straight down to confirm the selection, the **HISTORGRAM**, tool will be added in the tool bar, as shown in Figure 6.2-7:



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Figure 6.2-6 Choose Histogram Tool



Figure 6.2-7 Histogram in the Tool Bar

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



6.2.4 Load/Close Tool Bar

In a scene, after added the tools, you can load the tool bar or close the tool bar. The instructions are as below:

Load Tool Bar

First, scroll the joystick right to access a scene;

Second, press the joystick straight down to load the tool bar for the current scene, the tool bar will be displayed the leftmost of the screen, as shown in Figure 6.2-8. The bar labeled in the red rectangle are the tool bar for the current scene.

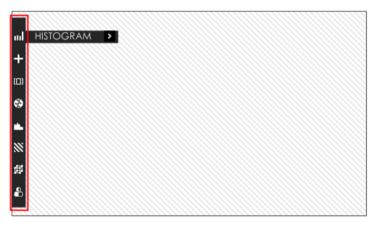


Figure 6.2-8 Tool Bar for A Scene

Close Tool Bar

□ After loading a tool bar, scroll the joystick left to close the tool bar.



When in editing tool setting menu status, scroll the joystick left to return to the previous menu, then scroll the joystick left to close the tool bar.

Open tool setting menu

After loading a tool bar, scroll the joystick right to access tool settings menu, as shown in Figure 6.2-9



Figure 6.2-9 Tool Setting Menu

Scroll the joystick left to return to the tool bar and close the tool setting menu.

6.2.5 Open/Close a Tool

Follow the instructions below to open or close a tool swiftly:

Open a Tool

First, press the joystick straight down to load the tool bar of the current scene;

Second, scroll the joystick up or down to select a tool;



At last, press the joystick straight down to open the tool.

Close a Tool

Press the joystick straight down to close the tool after opened it.

Select a Tool

Scroll the joystick up or down to select a tool after loading the tool bar.

🚹 Tips

• The tool icon in the tool bar will change in highlight green of opened status, and will change in white of closed status.

6.2.6 Tool Settings

Add tools for a scene through the tool settings, then, set a tool's attributes by scrolling the joystick right, it will display the tool settings menu on the screen.

Scroll the joystick left or right to switch among different scenes. The tool bar is hidden when switching to a scene by default. You should press the joystick straight down to display the tool bar for the current scene.

Operate the tool bar to display each tool settings menu, and set the style, location or size of the tool. Refer to "6.1 Scenes Tools Settings" for the details of each tool.

For example: Display histogram on a scene.

In a scene, press the joystick straight down to display the tool bar at the left side of the screen. Scroll the joystick down to move the cursor onto the **HISTOGRAM** tool icon, as shown in Figure 6.2-10:



Figure 6.2-10 Select HISTOGRAM

Press the joystick straight down to load the histogram window on the screen, and the histogram icon is lit in highlight green, as shown in Figure 6.2-11. Or press the joystick straight down again to close the histogram window.



Figure 6.2-11 Display the Histogram

Scroll the joystick right to access the next level menu, it will display the

histogram settings menu, as shown in Figure 6.2-12. It lists the characteristics of histogram in this menu, such as SETTING, LOCATION, OPACITY and ENABLE switch. After finish the parameter settings, scroll the joystick left to return to the tool bar.

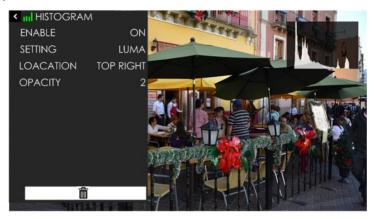


Figure 6.2-12 Settings Menu for Histogram

🚹 Tips

• The parameters of the tool could not be modified until the tool is opened.

6.2.7 Delete a Tool

In a scene, press the joystick straight down to display the tool bar for current scene, and scroll the joystick up or down to select the tool which you want to delete, then scroll right to access the tool setting menu, and select **DELETE** command at the end of the menu list, as shown in Figure 6.2-13.



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Figure 6.2-13 Delete a Tool

Press the joystick straight down to confirm the selection, and it will pop up a prompt to confirm the deletion, as shown in Figure 6.2-14, press straight down to delete, then the tool will be deleted from its tool bar.



Figure 6.2-14 Prompt for Deleting a Tool



🚹 Tips

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





Chapter 7 Specifications

7.1 Product detailed information

Specification	Values
Model	T5 4K ULTRAHD
Display	
Dimension	5.5"
Aspect Ratio	16:9
Viewing Angle (HxV)	170° (H)*170° (V)
Resolution	1920×1080
Contrast	1000:1
Brightness	450nits
Input Signal Formats	
	2160P30/29.97/25/24/23.98
	1080P60/59.94/50/30/29.97/25/24/23.98
HDMI	1080i60/59.94/50
	720p60/59.94/50
	480P60, 576P50
Connector Type	
HDMI	HDMI Type A
Audio	3.5mm Mini Jack
Control	2.5mm Jack

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Specification	Values	
Power		
Input Voltage	DC IN 5 ~ 17V	DC, Micro USB
Battery Types	Canon LP-E6/	Sony L Series
Battery Output	BATT OUT	
Consumption	5.5W	
Environmental		
Operating Temperature	0° C~50° C	
Dimensions(Bare Monitor)	157.5(mm) ×	79.0(mm) ×20(mm)
Weight (without Battery)	160g	
Features		
Image Scale		Yes
Anamorphic De-squee	eze	Yes
Image Rotate		Yes
Cross Hatch		Yes
Center Marker		Yes
Safe Marker		Yes
Area Marker		Yes
Focus Assist		Yes
Peaking		Yes
Pixel Zoom(2X & 4X)		Yes
False Color		Yes



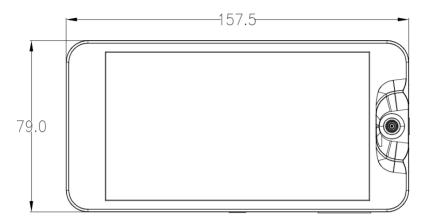
Specification	Values	
Zebra		Yes
Waveform		Yes
Vectorscope		Yes
RGB Parade		Yes
Histogram		Yes
Audio Meters		Yes
Pre-loaded LUTs for C	Cameras	Yes
LUT Loaded via SD C	ard	Yes
Firmware Upgrading		Yes
Language(EN/CH)		Yes

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

7.2 Dimensions

The description of the T5 4K ULTRAHD dimensions are as shown in the following figures(Unit: mm):

Specifications



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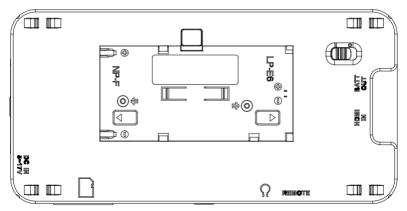
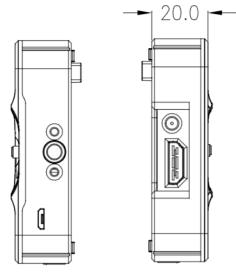


Figure 7.2-2 Back View(Unit: mm)







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Figure 7.2-4 Top View (Unit: mm)

🚹 Tips

• Specifications are subject to change without notice.

-----No Text Below------



FOR MORE INFORMATION PLEASE VISIT: <u>http://www.osee-dig.com/</u> OSEE TECHNOLOGY LTD.

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