Lilmon 5

ON CAMERA Monitor
User Manual

OSEE TECHNOLOGY LTD.

Product Information

Model: Lilmon 5 ON CAMERA Monitor
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Company

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About this manual

Important

The following symbols are used in this manual:

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

- 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:

- **Lilmon 5**

The images and descriptions of Lilmon 5 are adopted as examples in the following document.

Before reading the manual, please confirm the device type.

Contents

Chapter 1 Overview

Designed for photographers, v-loggers, and content creators, Lilmon 5 HDR monitor doubles the brightness of typical entry level monitors to 1000 nits and meets the minimum brightness requirement for outdoor shooting. It can seamlessly fit into a creative's workflow with its Swift OS touch screen, enhancing production efficiency.

Figure 1-1 A Diagram of Lilmon 5

Features

- 1000nits brightness
- Support 4K HDMI input&output
- Provide a sensitive touch screen as a smart and flexible navigation unit to switch among Mysets and configure various settings
- Support high qualified waveform, vector scope, histogram, audio meter etc.

- Provide versatile build-in color profiles, supporting the general profiles for ARRI, BMD, Canon, DCI, EBU, FUJI, NIKON, Panasonic, RED and SONY, etc. And you can upload custom 3D LUTs through SD card
- Support Anamorphic functionality in multiple modes: 1.33X, 1.4X, 1.5X, 1.6X, 1.8X, 1.9X, 2X
- Support Image ZOOM of 1~4X ratios, and to pan the image in every direction
- Provide optional dummy battery adapters to output battery DC power to cameras
- Support on location calibration with x-rite probes and osee calibrator software

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 Lilmon 5 monitor, please verify that none of the components listed in Table 3.1 is damaged or missing. If there are any components missing, please contact your distributor or osee for it.

Table 3-1 Packing List

No.	Item	Quantity
1	Lilmon 5	1
2	Tilt arm	1
3	Replacement o-type ring for tilt arm	3
4	DC port cover	2
5	Clean cloth	1
6	QSG card	1
7	Service card	1

Installation:

1. Prepare for installation

Please follow the procedures below before installing Lilmon 5:

- 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 the electrostatic-resistant screen protector.
- Retain these packing materials for future use.

2. Connect required cables for signal input and output.

3. Connect 6.2～16.8V DC power source through DC IN interface or power the monitor by NP-F battery.

4. As a final step, turn on the device by single click the power button located on the right side of the unit.

Install Battery:

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

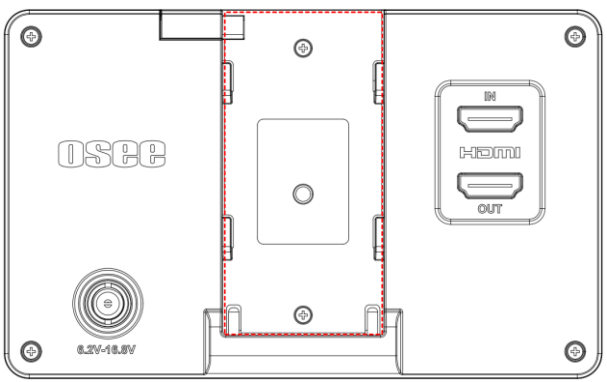


Figure 3-1 Battery Installation

About dummy battery connection:

When powered by battery, the BATT OUT interface can output battery DC power to external cameras by using the dummy battery adapters, the connection is as below:

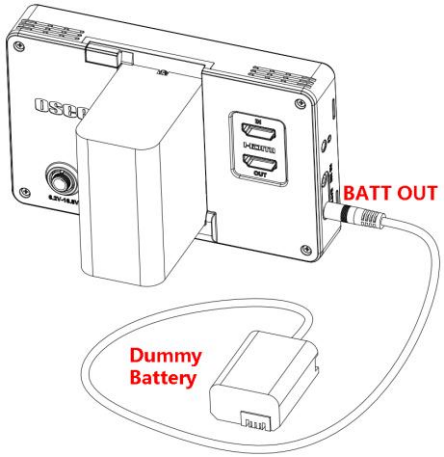


Figure 3-2 Connect BATT OUT to Dummy Battery

Mounting Installation:

There are two 1/4 inch screw holes with anti-rotation pin holes on the monitor for installing various types of mountings, as shown in the illustration below. Screw the mounting into the screw hole, and fasten it tightly.

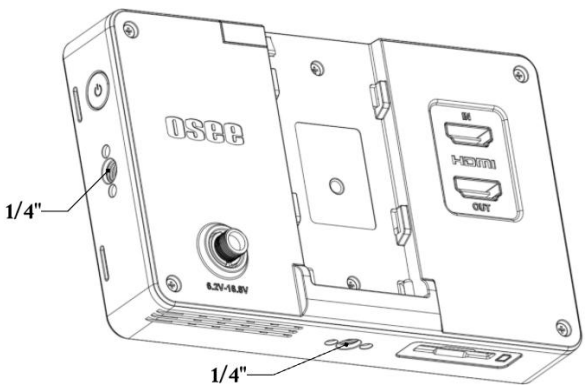
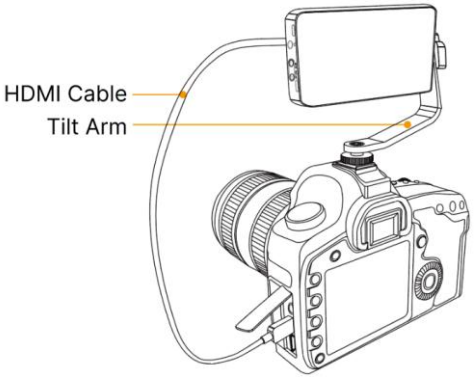


Figure 3-3 Positions for Mounting Installation

Accessory Installation:



Tips

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

Chapter 4 Features

4.1 Parts and Functions

The parts of Lilmon 5 are shown as below, there are various input and output interfaces for Lilmon 5 monitor, as shown in Figure 4.1-1.

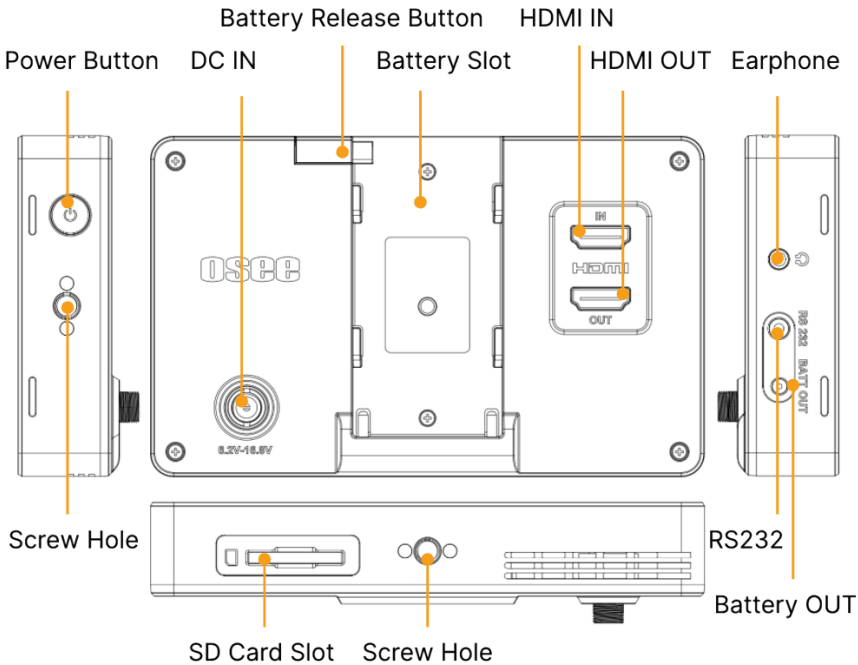


Figure 4.1-1 Parts in Rear Panel

No.	Connector	Description

No.	Connector	Description
1	Power Button	Click the power button to power on; and long press again for 3s to power off
2	SD Card Slot	Insert an SD card to load user LUTs or update firmware
3	HDMI In&Out	HDMI input and output interface, supports HDCP, compatible DVI1.0, HDMI 1.4
4	Battery Slot	Support Sony NP-F Battery, 6.2～16.8V
5	Battery Out	Battery output, 5～8.4V + −
6	DC In	DC power input, 6.2～16.8V + −
7	RS 232	Remote control for color calibration, 2.5mm Jack
8	Earphone	Headphone output jack, 3.5mm stereo Jack

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, swipe and two-fingers zoom in&out.

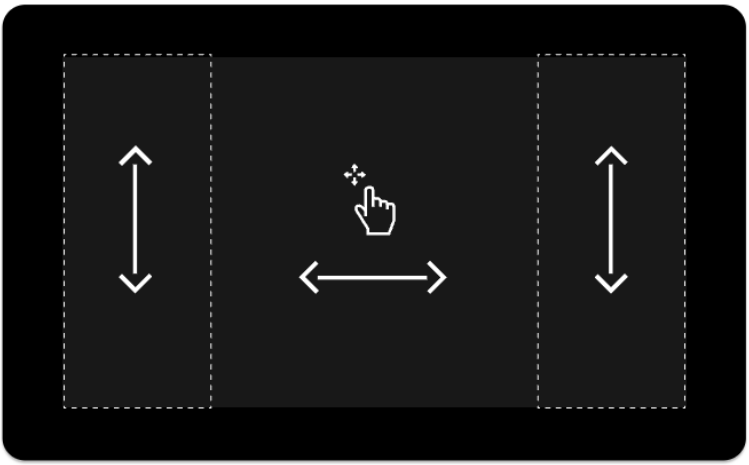


Figure 4.2-1 Buttons in Front Panel

- Tap: To show or hide status bar and tool menu.

- Swipe: Swipe left or right in the middle area to switch between different MySets (workspaces); swipe up and down in the side areas to quickly adjust backlight and volume.

- Two-fingers zoom in&out: use two-fingers swipe to zoom in or out, use one-finger swipe to pan the image when it's zoomed.

4.3 Power On

The power button is on the right side of Lilmon 5.

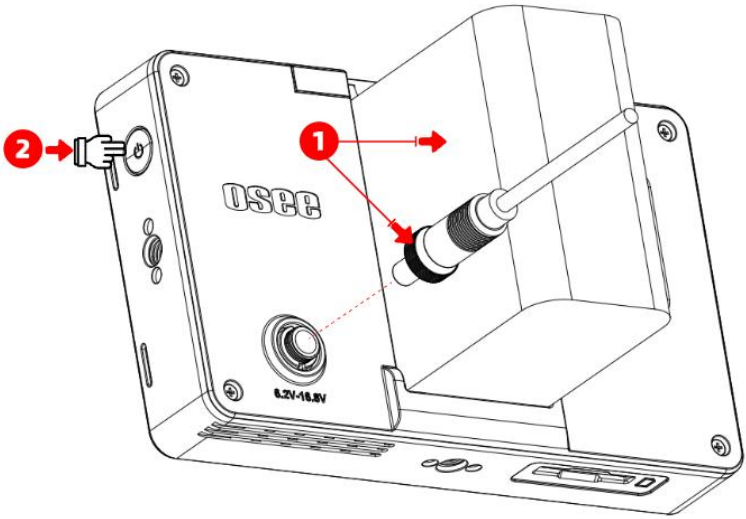


Figure 4.3-1 Power Button

- **Power Method**

There are two methods for powering Lilmon 5 as below:
Method 1: Power by battery
There is a built-in battery slot at the rear panel of the monitor. It supports SONY NP-F series batteries(5V～8.4V).
Method 2: Power by DC power input
Use a DC cable to power the monitor through the DC IN interface (6.2～16.8V DC).

- **Power On & Off Operation**

After the monitor is powered, single click the power button to turn it on. Then long press 3s to turn it off.

- **Screen Lock & Unlock**

Click the power button once after the monitor is turned on, and the

screen is locked. Then click again to unlock the screen.
Once the screen has been locked, it can't allow any operation until being unlocked by clicking the power button again.
Tap the screen, it will display a screen lock prompt on the screen, as shown in Figure 4.3-2.

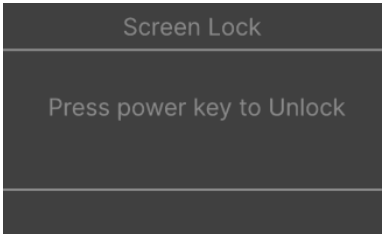


Figure 4.3-2 Screen Lock Prompt

Tips

- The monitor will display a boot screen after being turned on for 3~4 seconds.
- The BATT OUT interface could offer a power output when a battery is powering the device.
- Only use the adapter and power cord specified by the manufacturer for your safety!

4.4 ZOOM&PAN

You can get a closer view to your image in ZOOM mode. Place two fingers on the screen to stretch out or pinch in, thus to zoom the 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 one point of the image or the small rectangle in the zoom frame.

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:

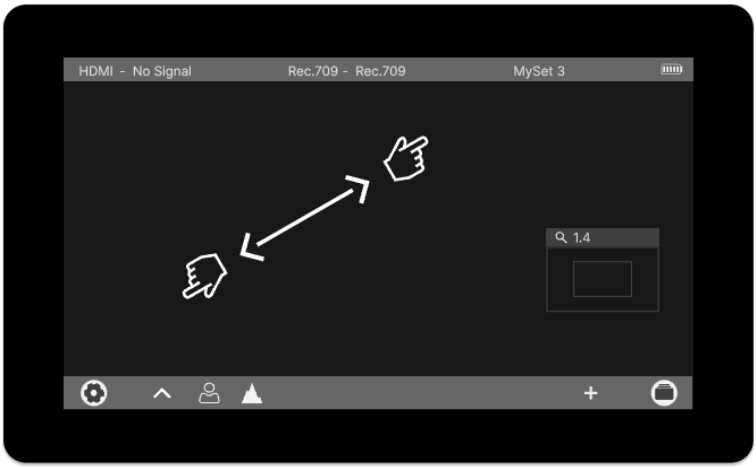


Figure 4.4-1 Zoom Frame

The zoom ratio is displayed 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 on 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.

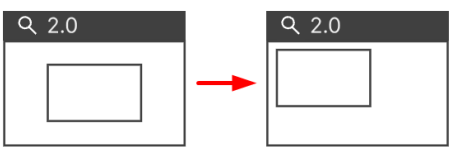


Figure 4.4-3 Zoom 4X Mode

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

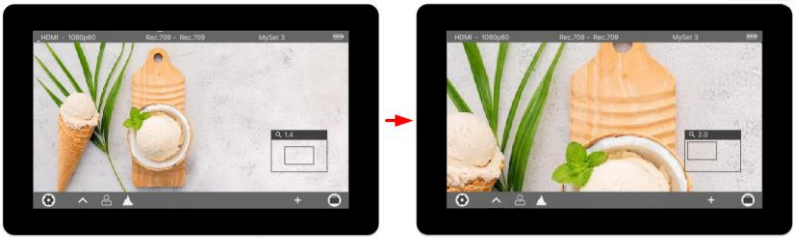


Figure 4.4-4 Zoom 4X Editing Mode

- Move around

Drag the small rectangle in the zoom frame left, right, up or down to pan the starting position of the image.

- 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.

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
4KP	4KP30/29.97	√
	4KP25	√
	4KP24/23.98	√
2160P	2160P30/29.97	√

Signal Format		HDMI
	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	√
576P50	576P50	√
480P60	480P60	√

Chapter 5 Monitor Settings

This chapter describes the structure and functionality of the monitor settings, and introduces how to modify and customize them.
Monitor menu contains the settings on input, backlight, volume, display rotate, status bar, LUTs, anamorphic, language, color management and so on, as shown in Figure 5-1.

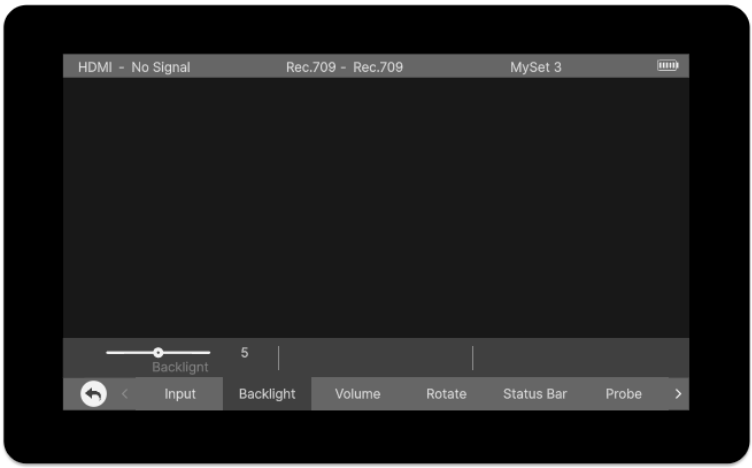


Figure 5-1 Monitor Settings Menu

5.1 Menu Operations

Display Monitor Settings Menu

Tap the screen, it will display the operation bar at the bottom of the screen, and the monitor settings icon is displayed at the leftmost of the operation bar.

Tap on the monitor settings button  to display monitor settings menu on screen, as shown in Figure 5.1-1:

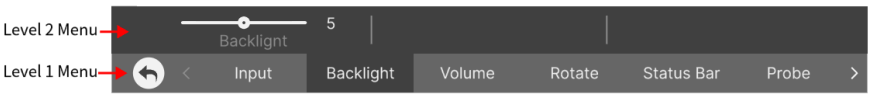


Figure 5.1-1 Structure of Monitor Settings Menu

The menu bar is divided into two parts: **Level 1 Menu** and **Level 2 Menu**. Follow the instructions below:

Level 1 Menu for Monitor Settings

It lists all items for monitor settings on the bottom of the screen, including **Input**, **Backlight**, **Volume**, **Rotate** and so on.

Swipe left and right on this bar to navigate the items of the monitor settings, tap one to select it. The background of the selected item will be darkened.

Level 2 Menu for Monitor Settings

The details of the selected menu item are located just above the Level 1 menu bar. You can check the parameters of the current menu item.

Tap its parameters in Level 2 menu. Tap continuously to switch among its options. When operating a slide caliper in Level 2 menu, swipe left to decrease the item value, and swipe right to increase its value.

Tap on the return  button to exit monitor settings menu.

5.2 Monitor Settings Items

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

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	Item	Description
INPUT	HDMI	Select input signal source

Tips

- The **INPUT** menu of Lilmon 5 can't be modified since it only has one input type.

5.2.2 Backlight

The **Backlight** menu item is used to adjust the backlight of the screen. The menu item is as shown in Figure 5.2-1:

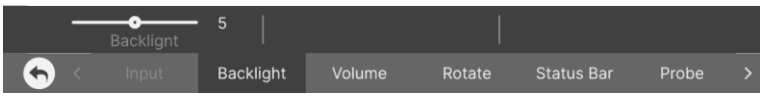


Figure 5.2-1 Backlight Menu

Table 5.2-2 Description of Backlight

Item	Default	Domain Range	Description
BACKLIGHT	8	0～10	Adjust the backlight

■ **Adjust Backlight**

In order to adjust the backlight, you can tap the **Backlight** item in monitor settings bar, besides, you can swipe up or down in the left area of the screen to increase or decrease the backlight.
As shown in Figure 5.2-2, swipe up to increase backlight, and swipe down to decrease it, the range is 0~10.

Figure 5.2-2 Adjusting Backlight

5.2.3 Volume

The **Volume** menu is used to adjust volume, as shown in Figure 5.2-3:

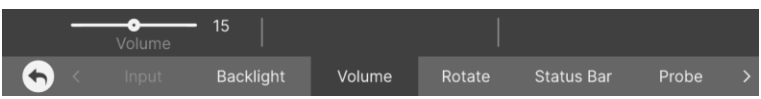


Figure 5.2-3 Volume Menu

Table 5.2-3 Description of Volume

Item	Default	Domain Range	Description
VOLUME	16	0～31	Adjust the volume

- Adjust Volume

In order to adjust the volume, you can tap the **Volume** item in the monitor settings bar, besides, you can swipe up or down in the right

area of the 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.

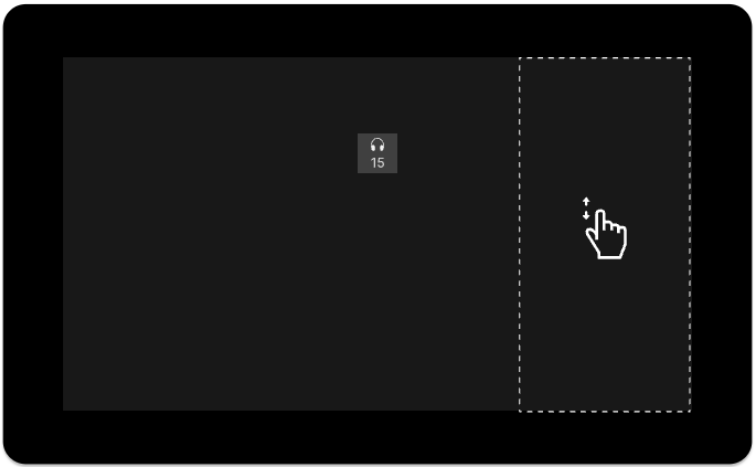


Figure 5.2-4 Volume Menu

5.2.4 Rotate

The **Rotate** menu is used for rotation and mirror, as shown in Figure 5.2-5:

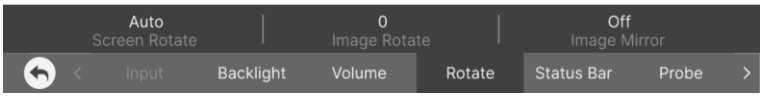


Figure 5.2-5 Rotate Menu

Table 5.2-4 Description of Rotate Menu

Item	Default	Domain Range	Description
Screen Rotate	Auto	Auto/0/180	Rotate the image and menus in vertical direction

Item	Default	Domain Range	Description
Image Rotate	180	0/180	Only rotate the image in vertical direction
Image Mirror	Off	Off/On	Mirror the image in horizontal direction

- **Display Rotate**

Set **Screen Rotate** item to be **180, 0** or **Auto**, the input image will reverse vertically with the menus, as shown in Figure 5.2-6:

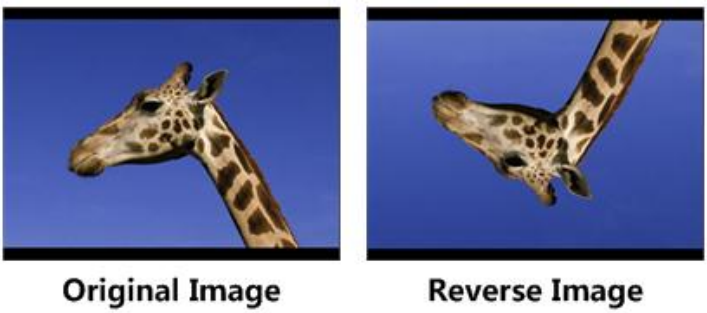


Figure 5.2-6 Vertical Rotate

- **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 5.2-7:

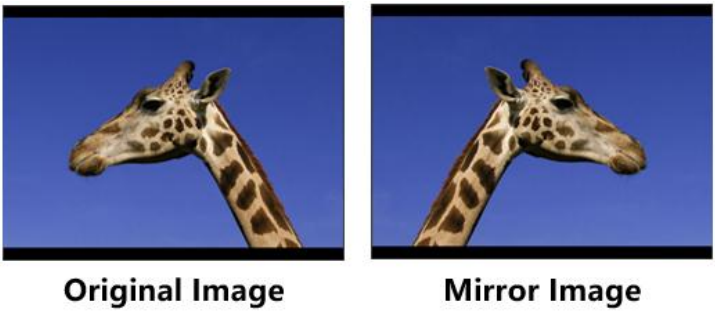


Figure 5.2-7 Horizontal Rotate

5.2.5 Status Bar

The **Status Bar** menu is used to set the display options of status bar, as shown in Figure 5.2-8:

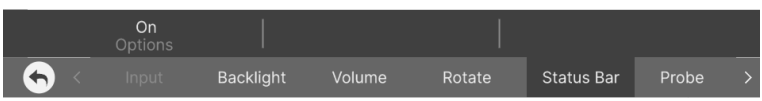


Figure 5.2-8 Status Bar Menu

Table 5.2-5 Description of Status Bar

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

- **Status Bar**

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

Figure 5.2-9 Status Bar

■ **INPUT FORMAT**

The **Signal Format** usually displays 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.

5.2.6 Probe

The **Probe** menu is used to set probe position whether after loading User LUT or before, as shown in Figure 5.2-10:

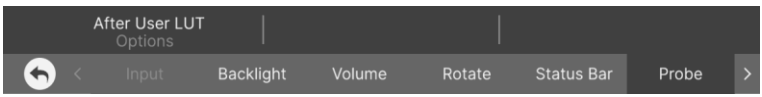


Figure 5.2-10 Probe Menu

Table 5.2-6 Description of Probe Menu

Item	Default	Domain Range	Description
Options	After LUT	After User LUT/ Before User LUT	When this item is set to After User LUT, the exposure tools will analyse the LUT applied signal, otherwise the original signal is analysed.

5.2.7 Range

The **Range** menu item is used to set the Input Range as shown in Figure 5.2-11:

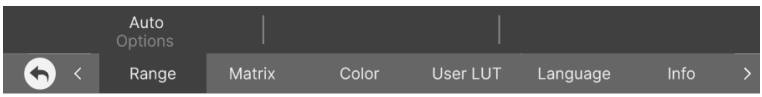


Figure 5.2-11 Range Menu

Table 5.2-7 Description of Range

Item	Default	Domain Range	Description
Options	Auto	Auto/64~940/0~1023	Refers to the range of values your video is encoded within, if you don't know the specific range of your video, just select Auto

5.2.8 Matrix

The **Matrix** menu is used to set color Matrix as shown in Figure 5.2-11:

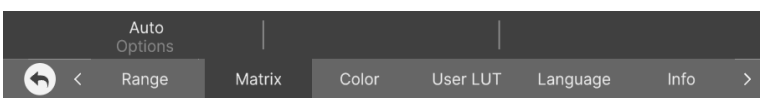


Figure 5.2-12 Matrix Menu

Table 5.2-8 Description of Color Matrix

Item	Default	Domain Range	Description
Options	AUTO	AUTO/ Rec 601(SD)/ Rec 709(HD)/ Rec 2020(UHD)	Define the color matrix standard the incoming signal is using, if unsure, just select Auto

5.2.9 Color

Set the items of Color according to the video format you are shooting with, so the monitor can display, interpret and analyse it correctly, as shown in Figure 5.2-13:

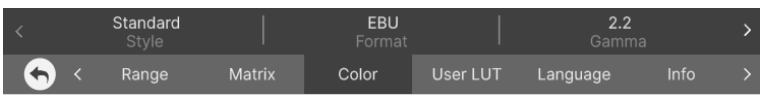


Figure 5.2-13 Color Menu

Table 5.2-9 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 5.2-10 for the relationship among color profile, gamma and gamut
Gamma	--	Refer to Table 5.2-10	Set Gamma

Gamut	--	Refer to Table 5.2-10	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 5.2-10:

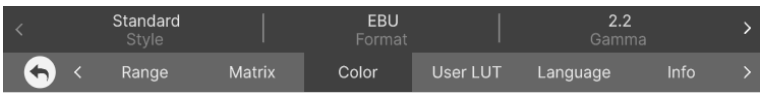


Figure 5.2-14 Color Settings

■ **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 5.2-10 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
	EI200	
	EI250	
	EI320	
	EI400	

PROFILE	GAMMA	GAMUT
	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
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 **LOOK** tool in a MySet to monitor your image.

5.2.10 User LUT

The **User LUT** menu item is used to load User LUT, as shown in Figure 5.2-15:

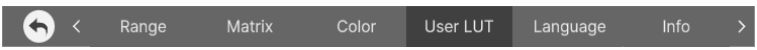


Figure 5.2-15 User LUT Menu

Table 5.2-11 Description of User LUT

Item	Default	Domain Range	Description
Execute Load Lut File	--	LUT1~ LUT10	Load a custom LUT file from SD card

The monitor could be loaded with versatile LUTs for different creative look styles. Add these custom LUT files from SD card through **User LUT** item in monitor settings, then select and apply USER LUT through Look tool in a MySet.

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

Operation: To upload a LUT file from SD card, tap **USER LUT** item in monitor settings bar, it will pop up a User LUT file list, as shown in Figure 5.2-16, you can only see LUT ID without profile name in the list when you have not uploaded any LUT files.

Figure 5.2-16 LUT List

Tap one user LUT ID in the list to choose it as the designated LUT slot.

Then, it will pop up a prompt for reminding you overwriting operation for LUT file, as shown in Figure 5.2-17, tap **Confirm** button and then select the target LUT from SD card in the next popup window, as shown in Figure 5.2-18, the file should be a LUT file with ".cube" suffix, and specify its storage directory, please don't cut off the power during loading.

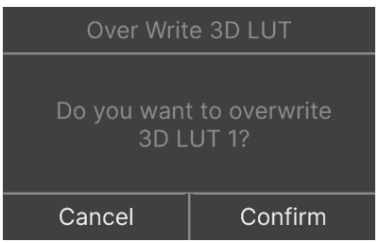


Figure 5.2-17 Prompt for Overwriting LUT

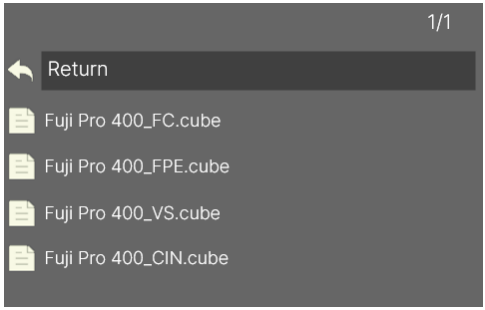


Figure 5.2-18 USER LUT Directory

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 5.2-17, then choose a target USER LUT to be uploaded from SD card, it will prompt the writing status, as shown in Figure 5.2-19, then it will prompt file writing complete after file loading. At last, you can see the profile name is on the right side of LUT1 in User LUT list.

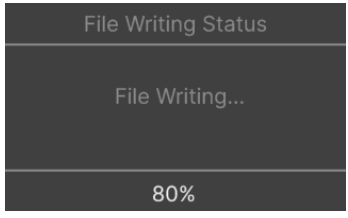


Figure 5.2-19 Prompt for File Writing

- **Second, use Look 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 PLUS icon to add **Look** tool into the tool bar, then tap it to activate this tool, the tool icon will be highlighted in green, as shown in Figure 5.2-20:

Figure 5.2-20 Enable Look Tool

Tap the upward arrow to load the tool settings bar above the tool bar as shown in Figure 5.2-21. Tap the **Options** item to be **USER LUT**.
For example:
Set **Options** item as **USER LUT**, **User LUT ID** item as **LUT1**, and it will apply **LUT1** to current MySet display.

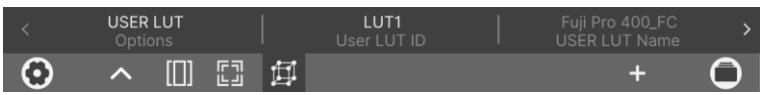


Figure 5.2-21 Tool Settings for Look

After activating a LUT file, it will be loaded to the image display immediately, as shown in Figure 5.2-22:

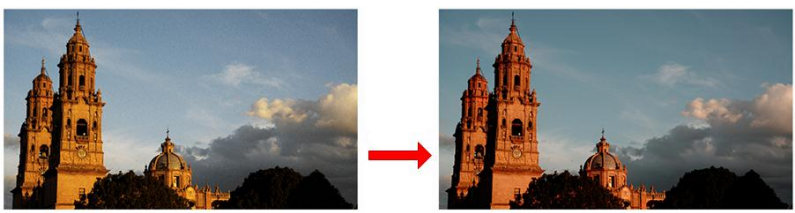


Figure 5.2-22 Output Image Applied with a LUT File

Tips

- There will a “File format not support!” prompt for unavailable LUT file format when executing file writing operation.
- Refer to “6.1.4 Look Tool” for the details about applying the 3D LUT file.
- Make sure your SD card is FAT32 format and under 16G, otherwise, it might not be supported by this monitor.
- Lilmon 5 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.

- 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 Info

The **info** menu provides monitor info, tap **Info** button to check the device version, build info, serial number and model items, as shown in Figure 5.2-23:

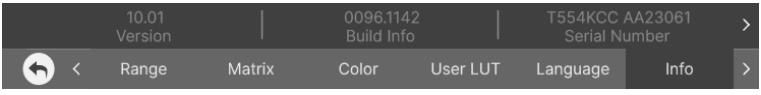


Figure 5.2-23 Info

Table 5.2-12 Description of Info

Item	Description
Version	Show current firmware version
Build Info	Show current build information
Serial number	Show serial number
Model	Show device model

5.2.12 Reset

The **reset** menu provides factory reset operation, as shown in Figure 5.2-24:

Figure 5.2-24 Factory Reset

Table 5.2-13 Description of Factory Reset

Item	Description
Factory Reset	Revert the factory settings

1. FACTORY RESET

Tap **Reset→ Factory Reset** to initialize the settings to default values, as shown in Figure 5.2-25:

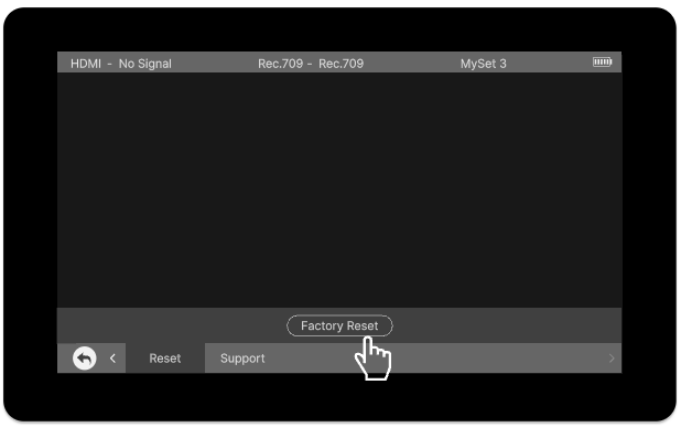


Figure 5.2-25 Factory Reset

It will pop up a prompt, as shown in Figure 5.2-26, tap **Confirm** button to confirm the reset operation. Please pay some patience during the reset operation, 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 5.2-27.

Figure 5.2-26 Prompt for Factory Reset

Figure 5.2-27 Boot Screen

2. FIRMWARE UPDATE

Insert an SD card with latest firmware file(s) in root directory, power on the device and it will upgrade automatically, then after successfully upgraded, it will prompt as shown in Figure 5.2-28:

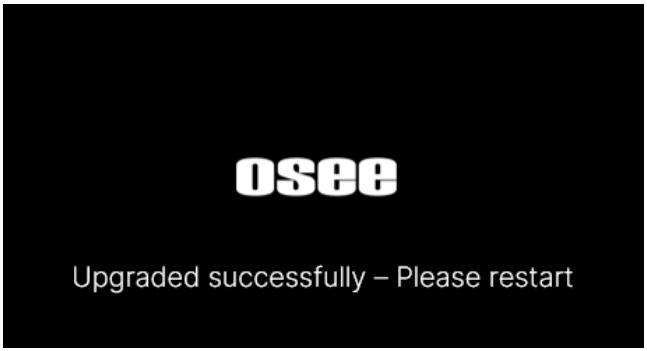


Figure 5.2-28 UPDATE

At last, please restart the device manually.

Tips

- It lasts about 30s for restarting operation, please don't do any operations during restarting the device.
- No power cut off during firmware upgrading and resetting, or the monitor will be dead.

5.2.13 Support

The **Support** menu provides following supports to our customers: osee's website's QR Code, website address and e-mail, as shown in Figure 5.2-29.
For any questions, please contact us by above contact ways.

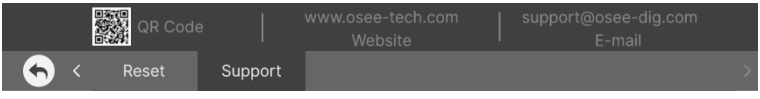


Figure 5.2-29 Support Menu

Chapter 6 MySets and Tools

6.1 Tools Settings

You can create customized MySet pages with different features and tools in Lilmon 5. In a MySet, tap the PLUS icon in tool bar to **Add, Delete a TOOL**.
Tap on the screen, the tool bar is displayed at the bottom of the screen, as shown in Figure 6.1-1.

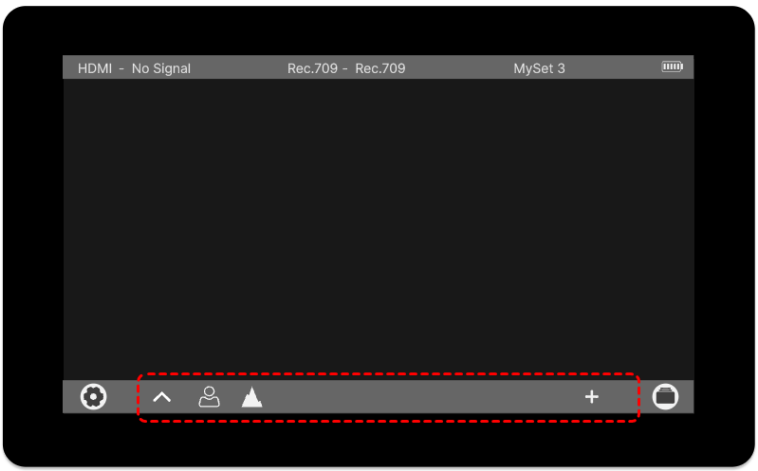


Figure 6.1-1 Tools for MySet

The tool bar provides access to tools aiding in composition, focus, exposure and so on for a MySet, you can add up to 8 tools in a MySet, and then they will be listed in the tool bar.
The available tools in a MySet are listed as in Figure 6.1-2 and Table 6.1-1:

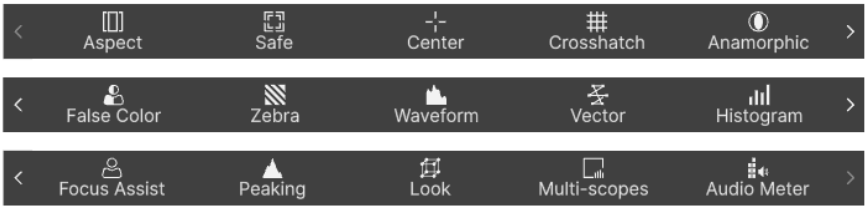


Figure 6.1-2 Tool List for A MySet

Table 6.1-1 Tool Icons

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

After adding a tool to the tool bar of a MySet, you can edit the tool's attributes by clicking the ARROW icon and its tool settings menu will pop up, as shown in Figure 6.1-3:

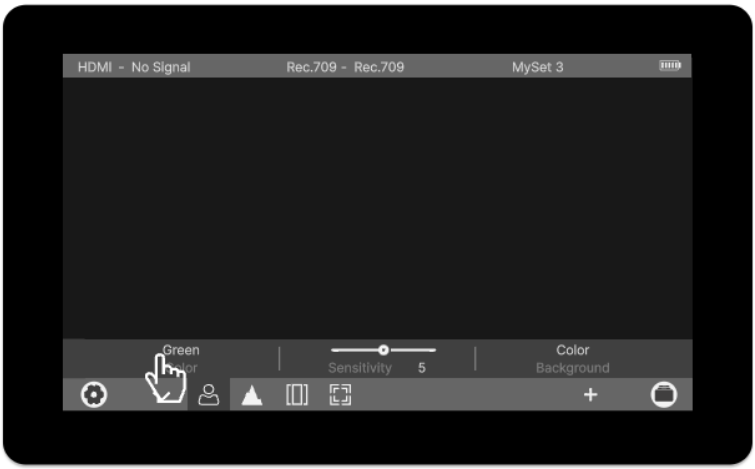


Figure 6.1-3 Tool Settings Menu

It will introduce the tools and their attributes in the following section, please refer to “6.2 MySets 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 and crosshatch. 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

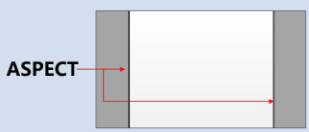
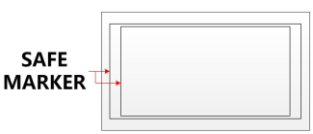
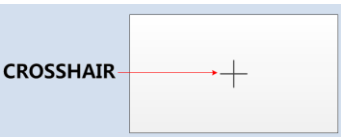
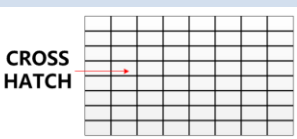
Table 6.1-2 Description of Frame Tools

Tool	Items	Default	Domain Range	Description
Aspect	Ratio	16:9 (HD	9:16 (Phone)/	Select the display ratio of

Tool	Items	Default	Domain Range	Description
		TV)	4:5/1:1/ 4:3 (SD TV)/ 1.375:1(Cinema)/ 16:9 (HD TV)/ 1.85:1(Cinema)/ 2.37:1(Cinema)/ CUSTOM	the marker
	Custom Ratio	1:1	3:1 ~1:3	Set the width of the matte area in CUSTOM mode, the step is 0.02
	Opacity	0	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 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

Tool	Items	Default	Domain Range	Description
Anamorphic	Magnify	OFF	OFF/ON	Enable magnify 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	1.33X/1.4X/ 1.5X/1.6X/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.
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 for center position.
Cross hatch		This marker displays multiple vertical and horizontal lines to help when user check the

Marker	Illustration	Description
		composition of a picture.

2. 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.

The valid area which will fill the screen is controlled by the ratio selection, tap **Anamorphic→ Ratio** item to cycle through these anamorphic ratios: 1.33X, 1.4X, 1.5X, 1.6X, 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
1.33X	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
1.8X	1080P/1080I	1920x1080	1920x600
	720P	1280x720	1920x600
1.9X	1080P/1080I	1920x1080	1920x568

ANAMORPHIC	INPUT SIGNAL	INPUT	OUTPUT
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 6.1-5:

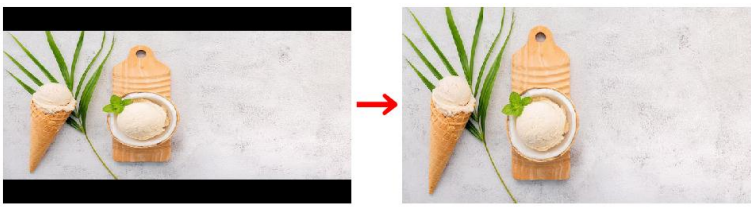


Figure 6.1-5 MAGNIFY

6.1.2 Exposure Tools

Lilmon 5 provides exposure tools including false color, zebra, waveform, vector and histogram, as shown in Figure 6.1-6:

Figure 6.1-6 Expose Tools

Table 6.1-4 Description of Expose Tools

Tool	Items	Default	Domain Range	Description

Tool	Items	Default	Domain Range	Description
False Color	Style	Spectrum	Follow Camera/ Spectrum/ Custom	Set the type of the false color display
	Black Clip	3%CV	1-99%CV	When Style is Custom, set the threshold of black clip, step is 1%
	Near Black	4%CV	2-100%CV	When Style is Custom, set the threshold of near black, step is 1%
	Tone1 MIN	46%CV	0-99%CV	When Style is Custom, set the minimum value of Tone 1, step is 1%
	Tone1 MAX	55%CV	1-100%CV	When Style is Custom, set the maximum value of Tone 1, step is 1%
	Tone2 MIN	77%CV	0-99%CV	When Style is Custom, set the minimum value of Tone 2, step is 1%
	Tone2 MAX	90%CV	1-100%CV	When Style is Custom, set the maximum value of Tone 2, step is 1%
	Near White	96%CV	0-98%CV	When Style is Custom, set the threshold of near white, step is 1%
	White Clip	98%CV	1-99%CV	When Style is Custom, set the threshold of white clip, step is 1%
ZEBRA	Tone1 MIN	0%CV	0-99%CV	Set Tone 1's minimum code value for detecting areas of a certain luminance range

Tool	Items	Default	Domain Range	Description
	Tone1 MAX	4%CV	1-100%CV	Set Tone 1's maximum code value for detecting areas of a certain luminance range
	Tone2 MIN	97%CV	0-99%CV	Set Tone 2's minimum code value for detecting areas of a certain luminance range
	Tone2 MAX	100%CV	1-100%CV	Set Tone 2's maximum code value for detecting areas of a certain luminance range
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/ Bottom Right/ Top Left/ Bottom 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	Top Right	Top Right/ Bottom Right/ Top Left/ Bottom Left	Set the position of the vector
	Gain	X1	X1/X2	Set the gain of vector

Tool	Items	Default	Domain Range	Description
	Density	50%	25%/50% 75%/100%	Set the density of vector
	Opacity	100%	25%/50% 75%/100%	Set the transparency of vector
Histogram	Style	LUMA	LUMA: luminance histogram /RGB: RGB histogram	Set the type of histogram
	Position	Top Right	Top Right/ Bottom Right/ Top Left/ Bottom 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 and under exposed areas. 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. When Style is set to **Spectrum**, the monitor will display a standard spectrum false color; when Style is set to **Follow Camera**, Lilmon 5 will display a calculated false color according to the Color settings in Monitor Settings, the indicator at the middle bottom of the screen will show under/over exposed range as well as middle gray and skin tone for each different camera profile you are using; You can also set Style to **Custom** so you can customize your own luminance range that you want to mark on the image.

For example: Add and Enable a **False Color** tool, set **Style** item as

Spectrum, as shown in Figure 6.1-7:

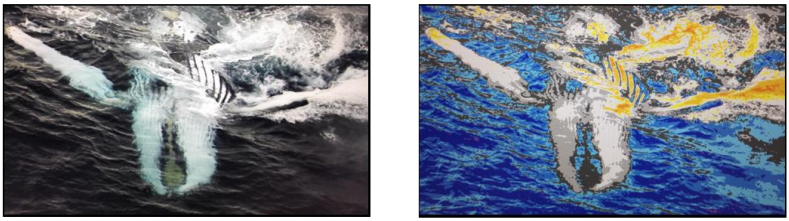


Figure 6.1-7 Comparison Mode-Original Image and Normal Mode Image

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 image 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 **Tone 1** and **Tone 2. Tone 1** is limited between **Tone 1 MIN** and **Tone 1 MAX**, **Tone 2** is limited between **Tone 2 MIN** and **Tone 2 MAX**. The relevant image area will be filled with a white and black stripe zebra pattern if the luminance is in the range of **Tone 1.** 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 **Tone 1 MIN** as 0% and **Tone 1 MAX** as 4%, **Tone 2 MIN** as 97% and **Tone 2 MAX** as 100%, the compared results are as shown in Figure 6.1-8, the specific area is filled with a zebra pattern.

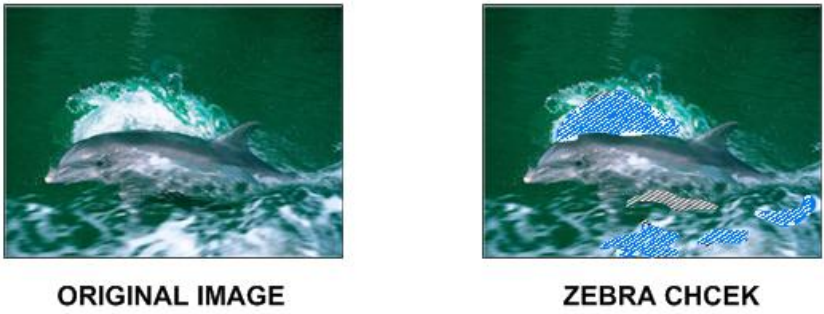


Figure 6.1-8 Illustration for ZEBRA Function

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 6.1-9:

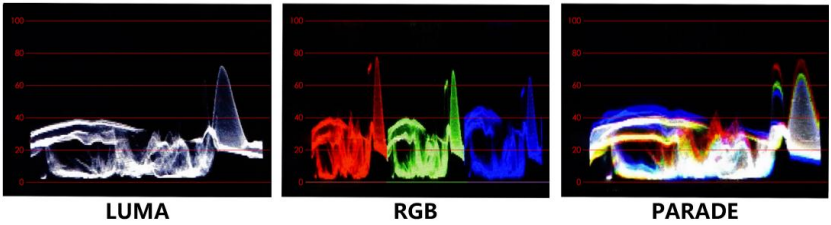


Figure 6.1-9 LUMA and RGB and PARADE Waveform

4. Vector

A vectorscope contains markings that indicate the degree of hue and saturation in an image.

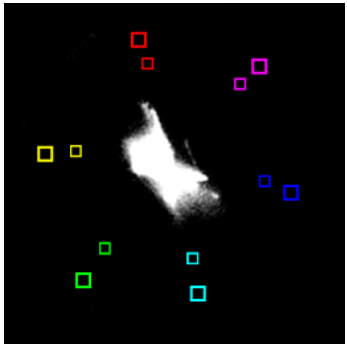


Figure 6.1-10 Vector

5. Histogram

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

- **Histogram Type**

Set **Histogram→Style** item as LUMA or RGB, these two histogram types are as shown in Figure 6.1-11:

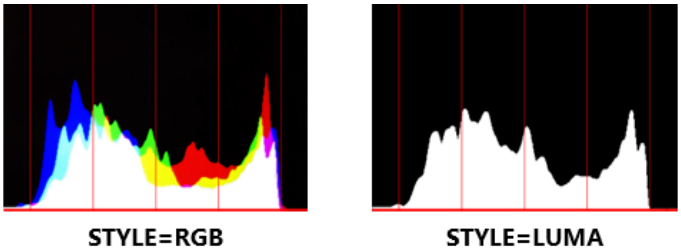


Figure 6.1-11 RGB and LUMA Histogram

6. Position

There are 4 positions for displaying the histogram, waveform and vector scope on the screen, as shown in Table 6.1-5 and Figure 6.1-12. Move them through the **Position** item.

Table 6.1-5 Position Settings

Locations	
Top Right	Top Left
Bottom Right	Bottom Left

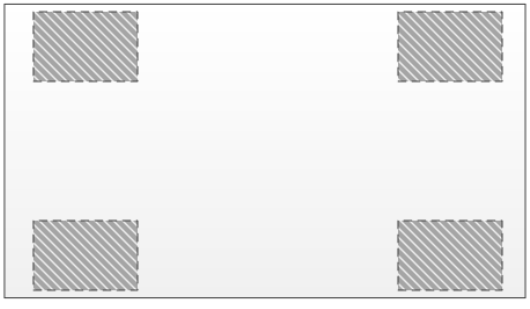


Figure 6.1-12 Position of the Assistant Elements

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 vectorscope) is opaque, not transparent.
- ☐ 75%: when opacity set to 75%, the assistant element (histogram, waveform or vectorscope) is proportional to 75% opacity.
- ☐ 50%: when opacity set to 50%, the assistant element (histogram, waveform or vectorscope) is proportional to 50% opacity.
- ☐ 25%: when opacity set to 25%, the assistant element (histogram, waveform or vectorscope) is proportional to 25% opacity.

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

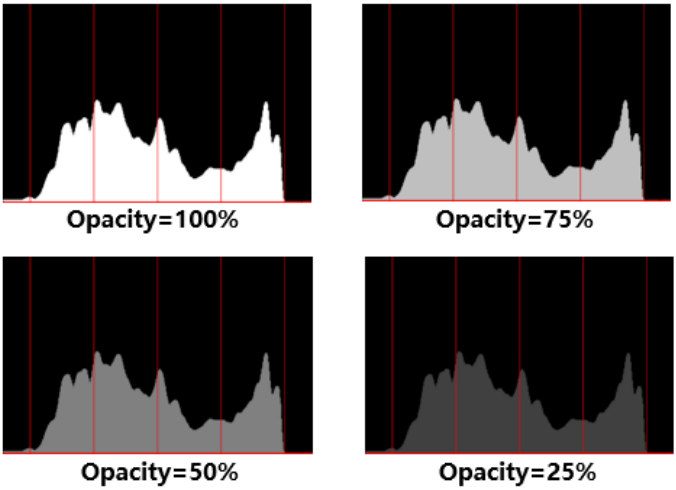


Figure 6.1-13 Different Opacity for Histogram

6.1.3 Focus Tools

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

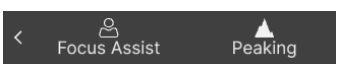


Figure 6.1-14 Focus Tools

Table 6.1-6 Description of Focus Tools

Tool	Items	Default	Domain Range	Description

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 image's color mode.
Peaking	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 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.

Figure 6.1-15 Illustration for FOCUS ASSIST Function

Figure 6.1-16 Illustration for FOCUS ASSIST Function

6.1.4 Look Tool

Look tool provides USER LUT and DE-LOG mode to current MySet, as shown in Figure 6.1-17

Figure 6.1-17 Look Tools

Table 6.1-7 Description of Look Tools

Items	Default	Domain Range	Description
Options	SDR Soft Clip	SDR Soft Clip/ HDR Soft Clip/ USER LUT	Select the de-log type
User LUT ID	LUT 1	LUT 1~LUT 10	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. DE-LOG & COLOR MANAGEMENT

The monitor is equipped with de-log tool(**Look**) to active HDR or SDR preview of current input signal for different dynamic range. Before activating de-log, you should select a camera profile and active the **Color →Style** item as **LOG** on in monitor settings at first:
As the precondition for de-log switch, set **Color** item in monitor settings to select a **camera profile**(**Style, Format, Gamma and Gamut)** item according to your camera connected with Lilmon 5**,** the settings pane is as shown in Figure 6.1-18:

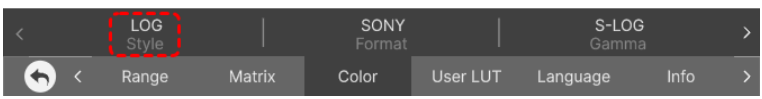


Figure 6.1-18 COLOR MANAGEMENT SETTINGS

After that, add a **Look** tool in MySet, and press the tool again to enable it, then switch **HDR Soft Clip** or **SDR Soft Clip** through **Options** item, as shown in Figure 6.1-19:

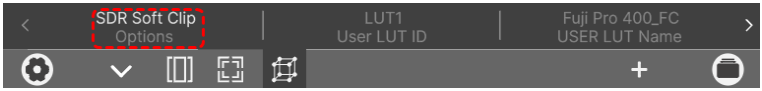


Figure 6.1-19 DE-LOG SETTINGS

Tips

- Refer to “5.2.9 Color” for the details of the COLOR settings and versatile color profiles.

2. 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. First, write the designated LUT file to the monitor.
Operation: 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. 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 **OK** 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.

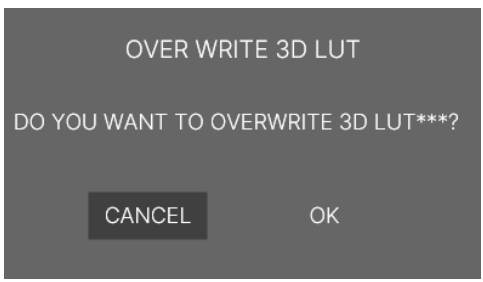


Figure 6.1-20 Prompt for Overwriting LUT

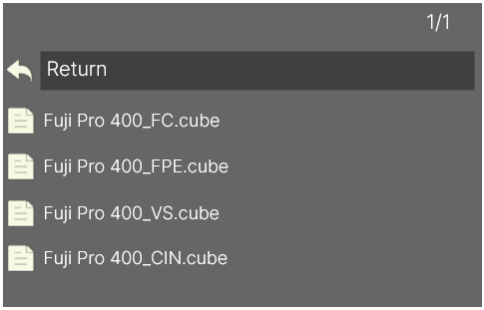


Figure 6.1-21 Calibration USER LUT Directory

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

Second, apply USER LUT in the tool. Select and enable a Look tool in a MySet, and select **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

- Lilmon 5 supports color management software CalMAN, the customized 3D LUT profiles (*.cube) produced by these software 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 Tools

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

Tool	Items	Default	Domain Range	Description
	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:

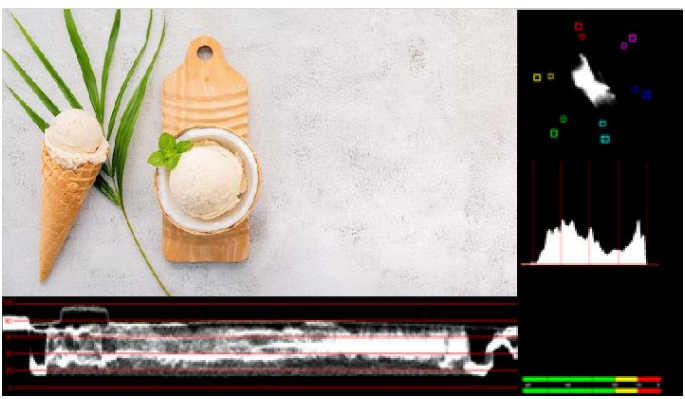


Figure 6.1-26 Analysis Tools

- **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 Tool

Meter tool provides adding audio meter 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 Left	Bot Left/ Bot Right	Set the position of the audio meter
	Opacity	100%	25%/50% 75%/100%	Set the transparency of the audio meter

- **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 Exposure Tools - Opacity” for the details about Transparency.

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 6.1-28:

Figure 6.1-28 Audio Meter

6.2 MySets and Tools Operations

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

6.2.1 MySet Preview

We support 8 MySets in Lilmon 5, you can customize each MySet with various tools as your requirement, and switch among these MySets in MySet preview page.

- **Enter into MySet Preview Page**

Tap MySet preview button at the right most of the operation bar at the bottom of the screen, as shown in Figure 6.2-1:

Figure 6.2-1 MySet Preview Button

It will display **8** MySet thumbnails at the center of the screen, as shown in Figure 6.2-2. The MySet will be numbered in sequence, the

numeric of MySet is displayed at the bottom of each MySet thumbnail, and the tool thumbnails for each MySet are tiled on the MySet thumbnail, as shown in Figure 6.2-2:

- **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.

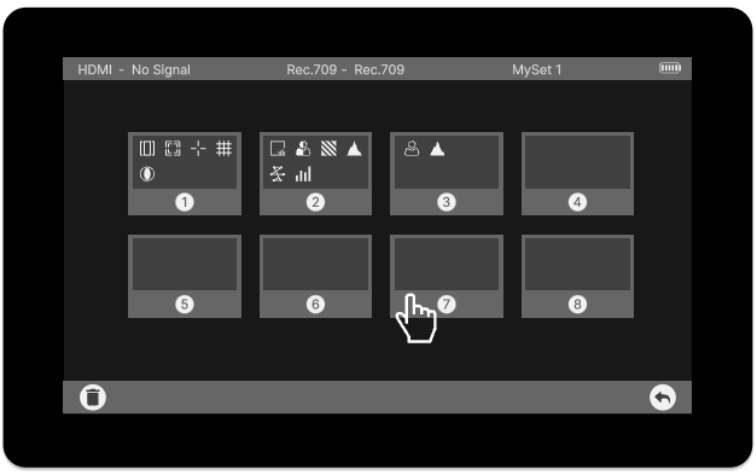


Figure 6.2-2 MySet Preview Page

Method 1: Tap these MySet thumbnails to switch between MySets, and it will exit the MySet preview page 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 Preview Page**

If you don't want to switch to a new MySet and return to the normal image screen, tap the return button at the rightmost of the bottom

operation bar, as shown in Figure 6.2-2.

Tips

- Lilmon 5 supports up to 8 customized MySets.
- The 8 MySets exist by default and undeletable.
- Factory has 3 MySets (frame, exposure, focus) preset, you can edit them to your preferences.

6.2.2 Clear a MySet

Tap the trash button to enter clear mode for MySets.
Tap the trash button at the leftmost of the operation bar in MySet preview page, as shown in Figure 6.2-3:

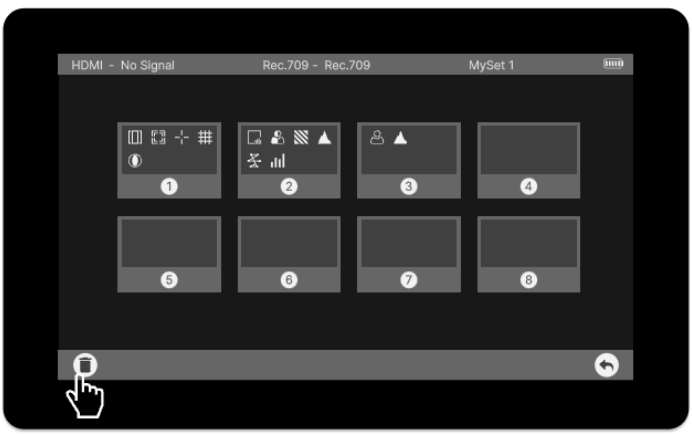


Figure 6.2-3 Delete a MySet

It will display the delete page, as shown in Figure 6.2-4. There will be DELETE button at the bottom of each MySet thumbnail.

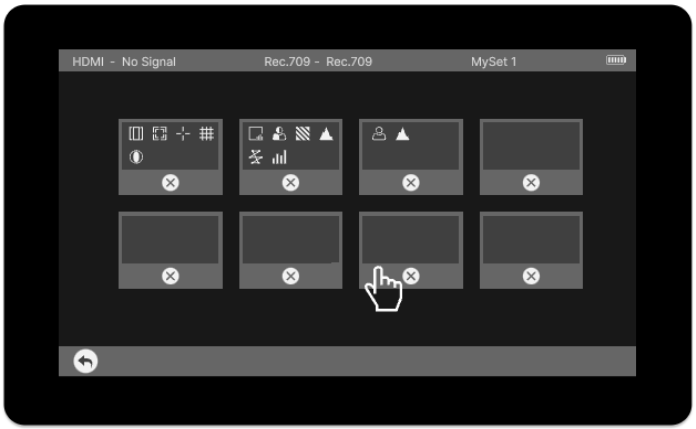


Figure 6.2-4 Delete a MySet

Tap one MySet thumbnail to delete it, and there will be a prompt for deletion, as shown in Figure 6.2-5. Tap **OK** button to confirm. Wait until the prompt disappear, then the tools in this MySet will be cleared completely.

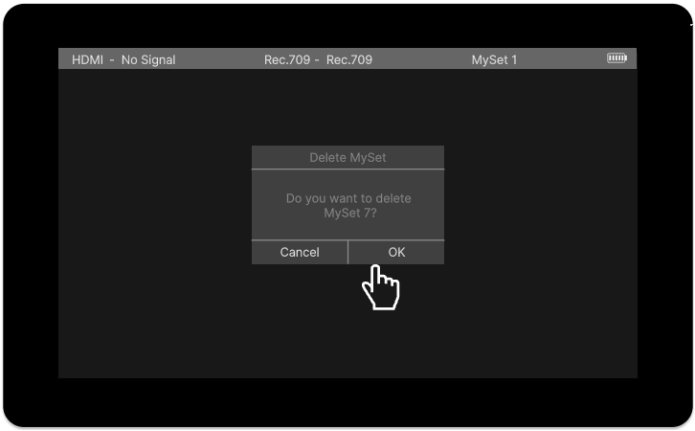


Figure 6.2-5 Prompt for Delete a MySet

6.2.3 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 MySet tools.
- You can add more than one of the same tool in a MySet.

In active MySet, tap the screen, it will display the operation bar at the bottom of the screen. The current available tools are displayed in this 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 6.2-6.

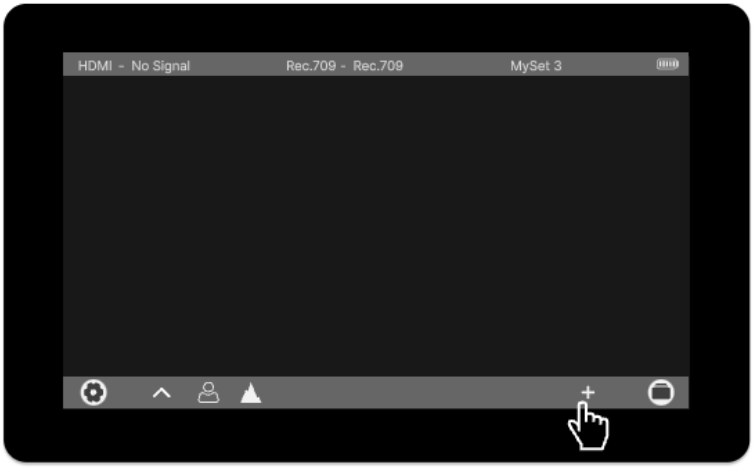


Figure 6.2-6 Add a New Tool

There are 15 tools offered in this device, as shown in Figure 6.2-7, including Aspect marker, Safe marker, Center marker, Crosshatch, Anamorphic, False Color, Zebra, Waveform, Vector, Histogram, Focus Assist, Peaking, Look, Multi-scopes and Audio meter.

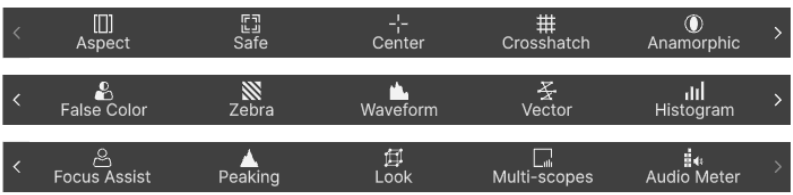


Figure 6.2-7 Tools Menu for MySet

Tap add button to display the tool list above the operation bar, as shown in Figure 6.2-8. Tap your desired MySet tool, and the selected tool will be added to the **Tool Bar** of the current MySet.

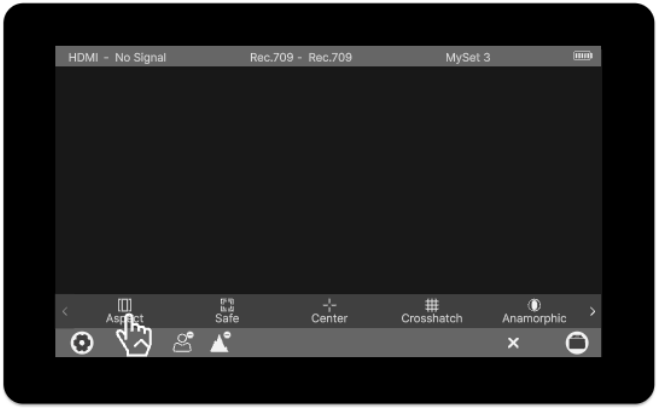


Figure 6.2-8 Tool List

For example: Add histogram to Tool Bar

Step 1 Load Tool List

Tap add button to display the tool list above the operation bar, as shown in Figure 6.2-9:

Figure 6.2-9 Add a Tool

Step 2 Add HISTORGRAM Tool

Swipe left until **Historgram** item shows up, as shown in Figure 6.2-10. Tap on **Historgram** to confirm the selection, the **Historgram** tool icon will be added into the tool bar, as shown in Figure 6.2-11:

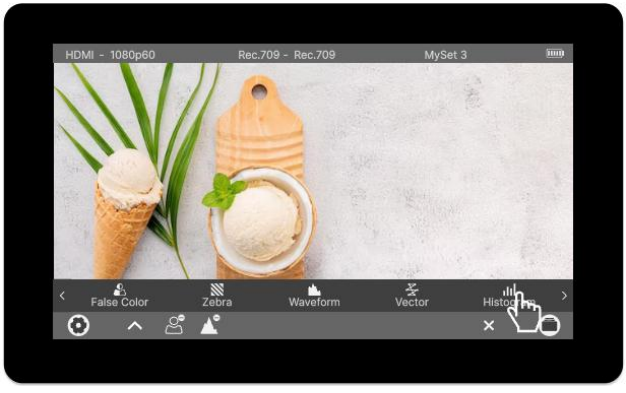


Figure 6.2-10 Choose Histogram Tool

Figure 6.2-11 Histogram in the Tool Bar

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

Tap close button to close the tool list.

6.2.4 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 screen to load tool bar for current MySet, the tool bar will be displayed at the bottom of the screen, as shown in Figure 6.2-12. The bar labeled in the red rectangle is the tool bar for current MySet.

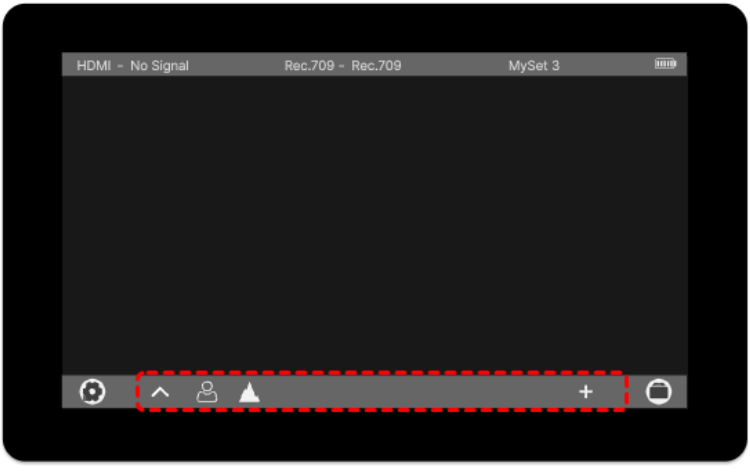


Figure 6.2-12 Tool Bar for A MySet

- **Close Tool Bar**

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

6.2.5 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 gray to highlight green.

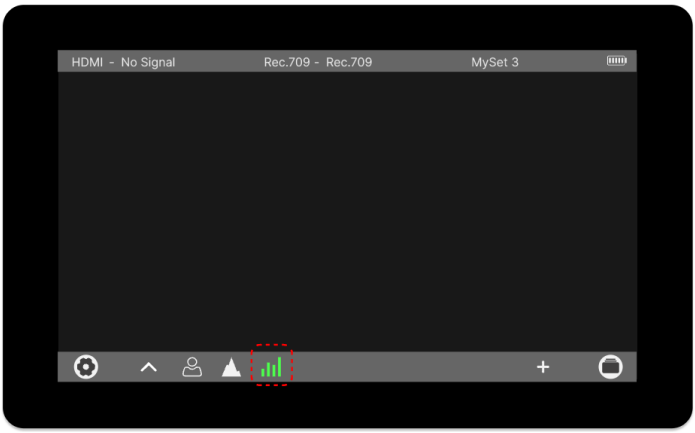


Figure 6.2-13 Turn on a Tool

- **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 to gray.

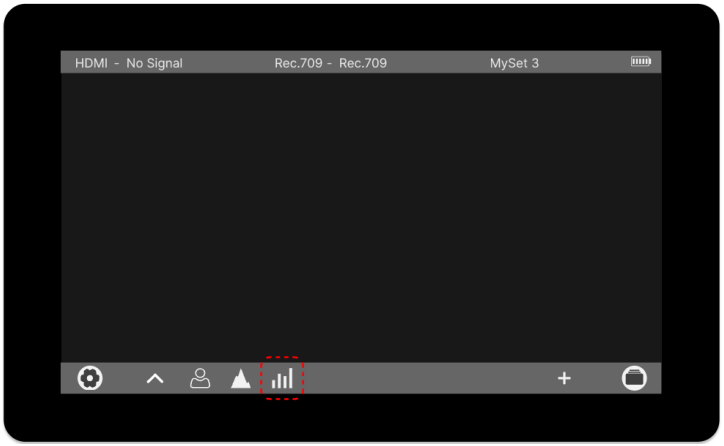


Figure 6.2-14 Turn off a Tool

Tips

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

6.2.6 Tool Settings

Add tools for a MySet through tool list, then, set a tool's attributes by the tool settings bar.
Tap the upward arrow in tool bar to display the tool settings bar above the tool bar, as shown in Figure 6.2-15. 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**

  Tap the upward arrow in tool bar, it will load the tool settings bar above the tool bar, as shown in Figure 6.2-15:

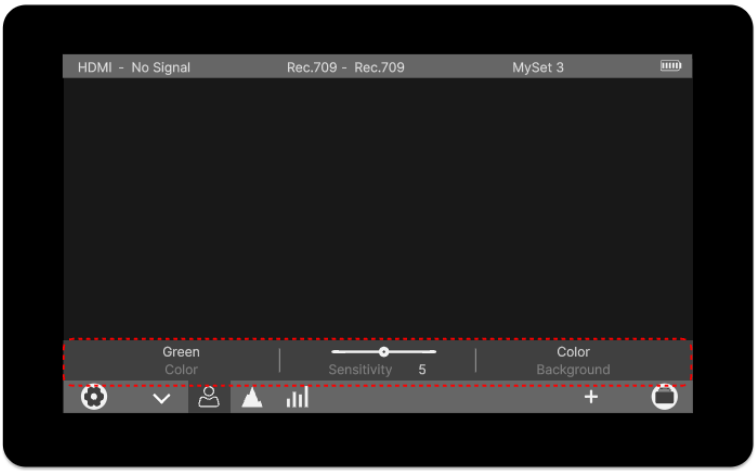


Figure 6.2-15 Tool Settings Bar

The default settings displayed in the tool settings bar are the attributes of the first tool in current tool bar. Tap the tool you want to configure to switch to its attributes.Take the histogram for example.
For example: Edit histogram in a MySet.

Step 1 Activate HISTOGRAM Tool

Tap on **HISTOGRAM** tool in the tool bar to activate it, and the icon of histogram turns into highlight, as shown in Figure 6.2-16

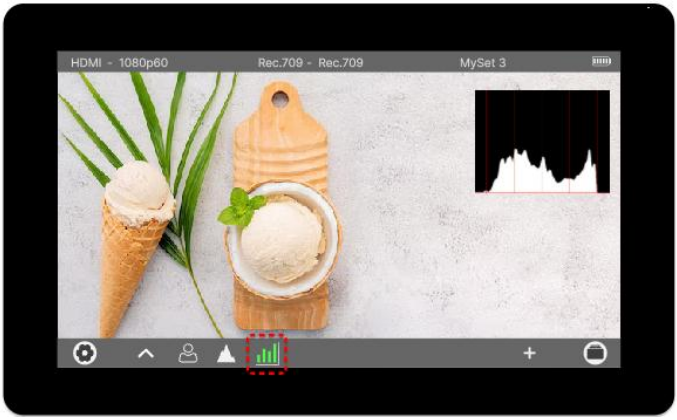


Figure 6.2-16 Activate Histogram

Step 2 Load the Tool Settings Bar

In a MySet, tap the upward arrow in tool bar after adding the histogram tool, as shown in Figure 6.2-17:

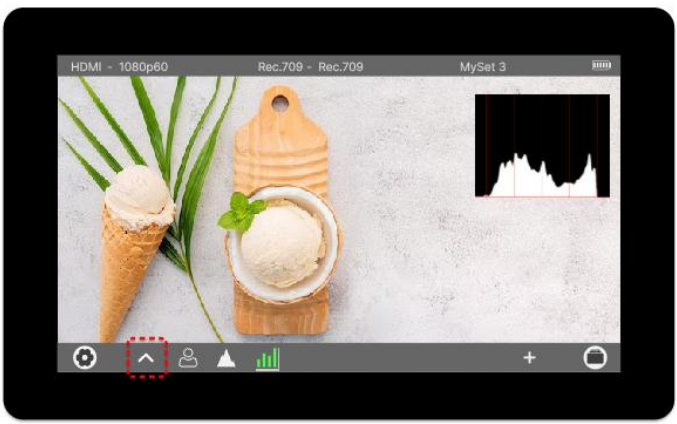


Figure 6.2-17 Expand Arrow

Then load the tool settings bar above the tool bar, the default attributes are for the first tool in the tool bar, here is Focus Assist, as shown in Figure 6.2-18:

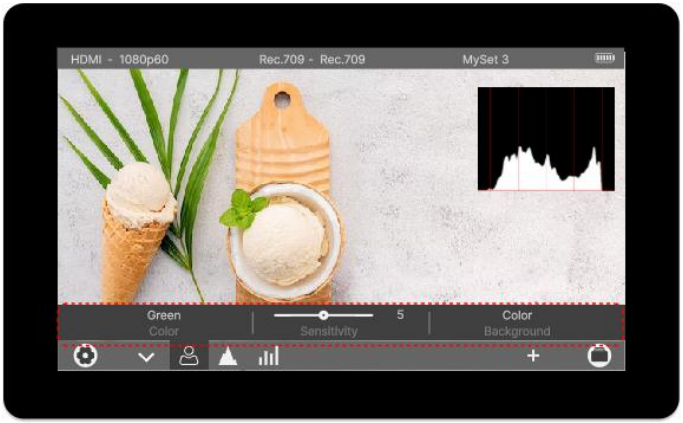


Figure 6.2-18 Tool Settings Bar

Step 3 Switch Tool Settings for the Target Tool

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 downward arrow to close the tool settings bar.

Tips

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

6.2.7 Delete a Tool

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

Method 1: Delete a tool in the tool list

Tap add button to display the tool list above the operation bar, it will show the tool icon with a delete corner mark in the tool bar, as shown in Figure 6.2-20:

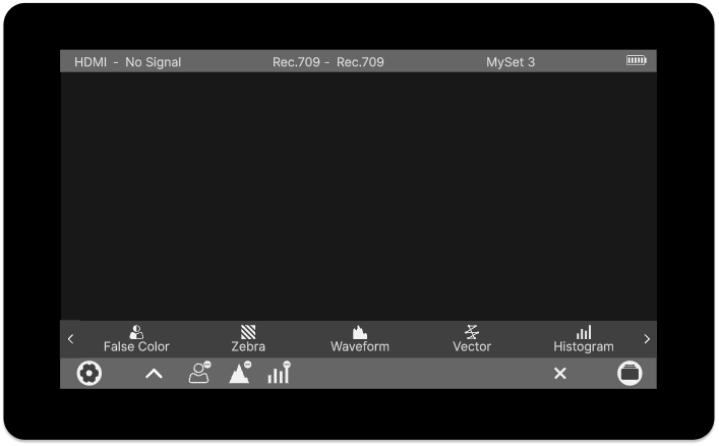


Figure 6.2-20 Delete a Tool

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

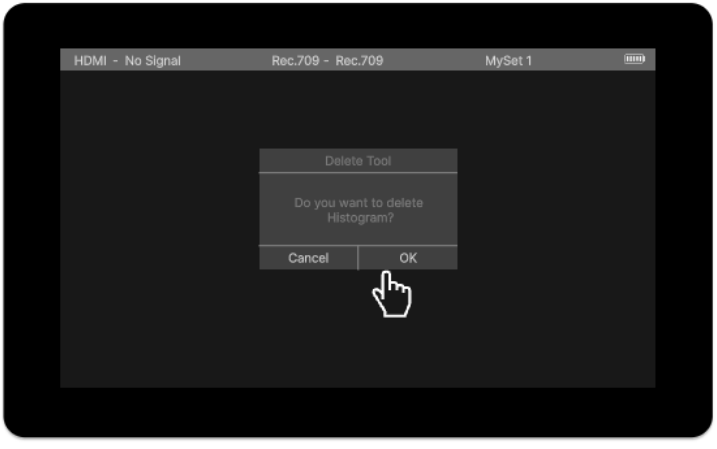


Figure 6.2-21 Prompt for Deleting a Tool

Method 2: Delete tool in the MySet preview page

Tap MySet preview  button at the right most in the operation bar at the bottom of the screen to display the MySet preview page, then you can delete all tools in the selected MySet by tapping the trash  button. This operation is fit for all tools clearing, refer to “6.2.2 Clear a ” for the details.

Tips

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

Chapter 7 Specifications

7.1 Product detailed information

Specification	Values
Model	Lilmon 5
Display	
Dimension	5.5”
Aspect Ratio	16:9
Viewing Angle (HxV)	178° (H)*178° (V)
Resolution	1920×1080
Contrast	1000:1
Brightness	1000nits
Input Signal Formats	
HDMI	4KP30/29.97/25/24/23.98
	2160P30/29.97/25/24/23.98
	1080P(60/59.94/50/30/29.97/25/24/23.98)
	1080i(60/59.94/50)
	720p(60/59.94/50)
	576p/576i/480p/480i
Connector Type	
HDMI	HDMI 1.4
Audio	3.5mm Mini Jack

Specification	Values
Remote	2.5mm Jack for color calibration
Power	
Input Voltage	DC IN 6.2～16.8V 
Battery Types	Sony NP-F Series (6.2～16.8V)
Battery Output	BATT OUT (5～8.4VDC) 
Consumption	8.1W
Environmental	
Operating Temperature	0° C~40° C
Dimensions(Bare Monitor）	144.0(mm) ×88.5(mm) ×24.4(mm)
Weight (without Battery)	212g
Features	
Image Scale	Yes
Anamorphic De-squeeze	Yes
Image Rotate	Yes
Cross Hatch	Yes
Center Marker	Yes
Safe Marker	Yes
Area Marker	Yes
Focus Assist	Yes
Peaking	Yes

Specification	Values
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.

7.2 Dimensions

The description of Lilmon 5 dimensions are as shown in the following figures (Unit: mm):

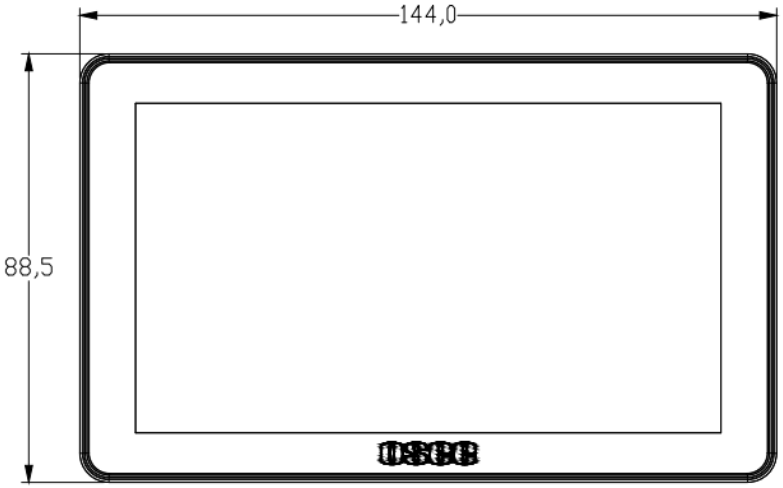


Figure 7.2-1 Front View(Unit: mm)

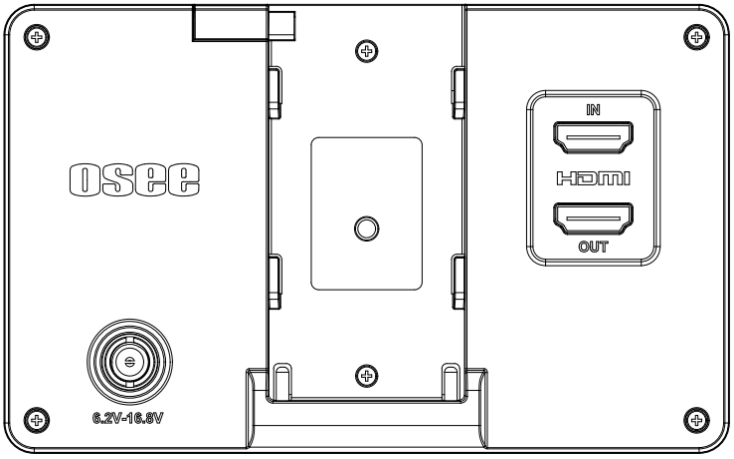


Figure 7.2-2 Back View(Unit: mm)

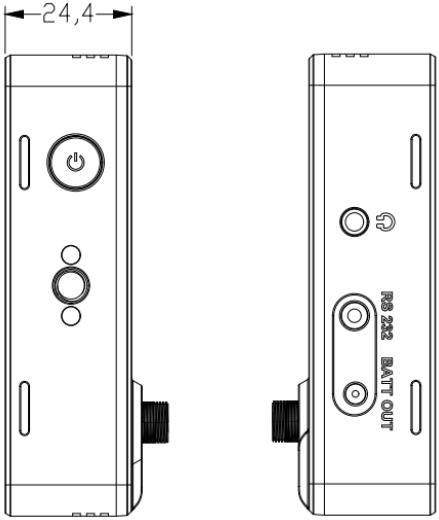


Figure 7.2-3 Side View(Unit: mm)

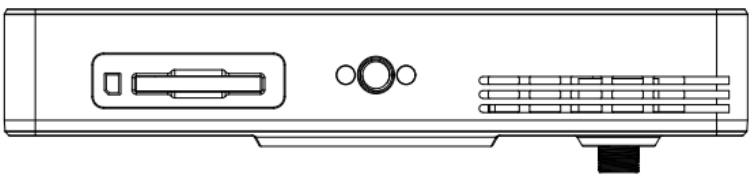


Figure 7.2-4 Top View (Unit: mm)

Tips

- Specifications are subject to change without notice.

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

FOR MORE INFORMATION PLEASE VISIT: http://www.osee-tech.com/

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