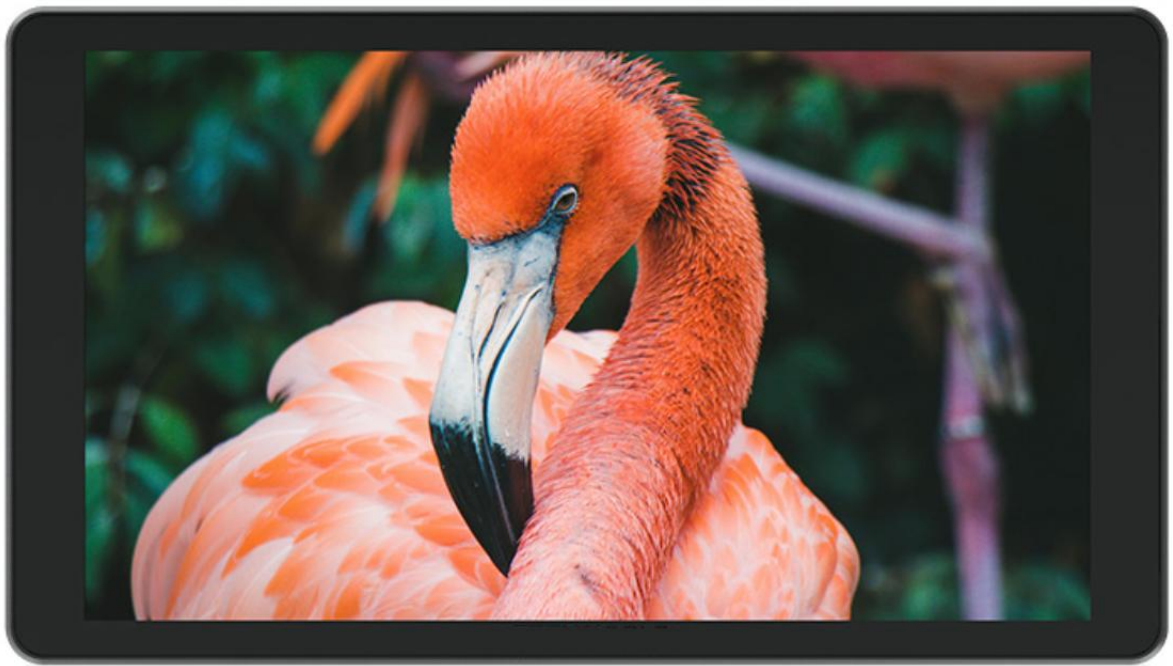# 6″ Built-in Battery Camera Monitor

User Manual

Foreword

Thank you for purchasing our 6-inch built-in battery camera monitor. Please read this manual carefully before using the unit. Have a great experience!

Cautions

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

● The product built-in battery. Please do not approach sources of fire to prevent explosion hazards.

● The screen of this product is made of glass. Please do not drop the screen towards the ground. Keep away from injury if the screen is broken.

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

● To avoid damaging the product, please do not take apart or repair the unit by yourself without the adjustable components in the unit.

● In order to better maintain the LCD screen and protect the cover, please follow the following ways to avoid damages.

  1. Please refrain from using the hard objects to hit the screen.

  2. Please do not force to wipe the screen.

  3. Please do not use the chemical solutions to clean the screen.

  4. Please do not spray any detergent on the screen.

  5. Please do not write on the screen directly.

  6. Please do not stick on the screen.

  7. Please simply wipe with a clean soft cloth and make sure no water on the screen.
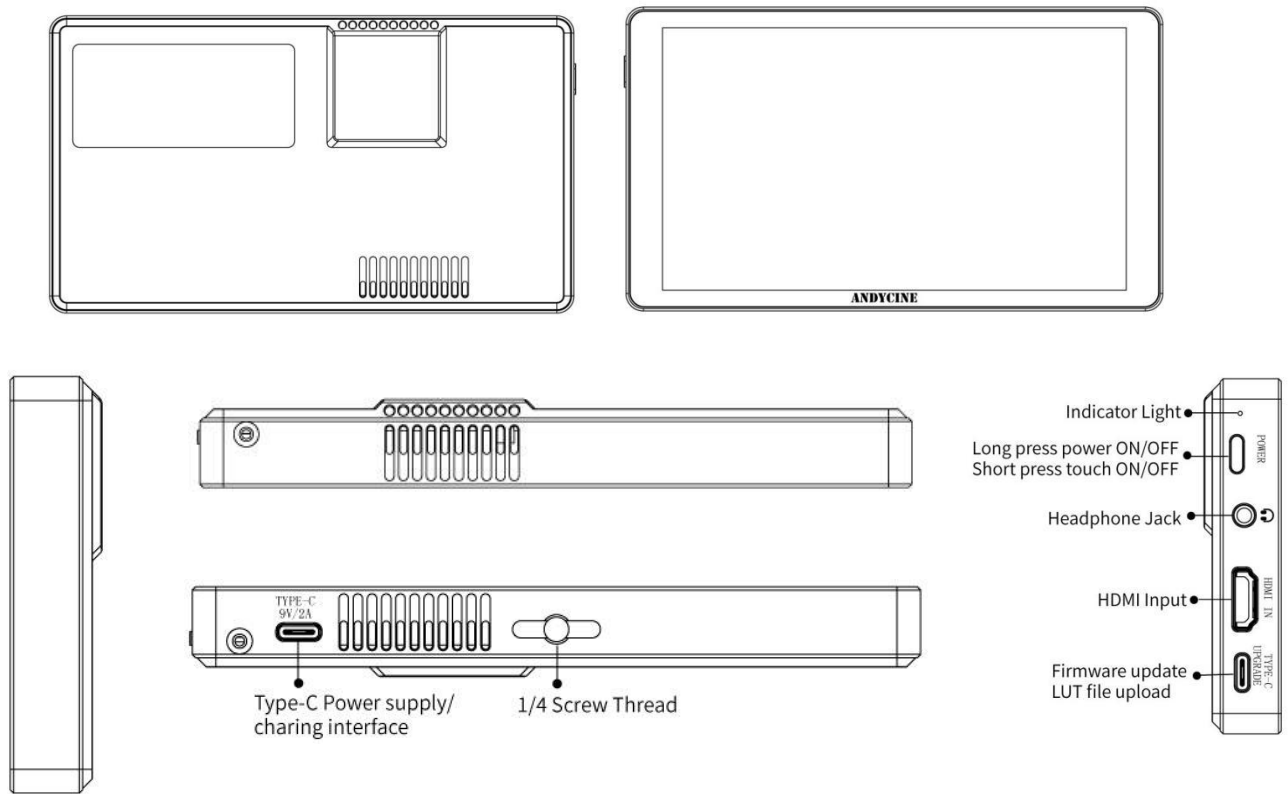
Key Features

➤ 6-inch full HD IPS screen.viewing details with confidence

➤ Solid and durable aluminium housing

➤ Built-in 22.2Wh/7.4V battery, easy to charge. Running time about 120 minutes at 100% brightness full charged.

➤ Full touch screen, easier to setup

➤ Sharp screenshot + image overlay

➤ Supports 3D LUT Log to REC.709 and user 3D LUT upload (up to 32).

➤ 9:16 vertical ratio marker, perfect for Tik tok, Instogram

➤ 4-group user switching, quickly access the already set menu

➤ Waveform, Vector, Histogram and audio meter can moveable horizontally and vertically

➤ HDR monitoring, what you see is what you get

➤ Stereo Earphone output

CONTENTS

1. Product Overview

2. Power Supply Way

The bottom of the monitor has a Type-C 9V/2A input power port

This port can provide power to the monitor through the included USB-C to USB-A cable. It can be charged separately or charged while in use. After being fully charged, it can be used for about 120 minutes. The indicator light is red when charging, and turns green when fully charged. Suggest shutting down and charging.

Compatible with the following charging protocols:

PD2.0/3.0 fast charging protocol

Samsung AFC fast charging protocol

HUAWEI FCP fast charging protocol

QC2.0/3.0 fast charging protocol

3. Sunshade

The monitor attached a sunshade, it can effectively resist strong light.

① Sunshade　　　　　　　**② Sunshade Frame**

③ Fixed Frame　　　　　　**④ Sunshade Application**

First lock the Sunshade Frame ②with the monitor tight ③.

Open the sunshade ①, and match the sticker on the sunshade inside to the marked part of the sunshade frame ②, smooth and press 3 sides on the sunshade, and then complete the sunshade installation ④.
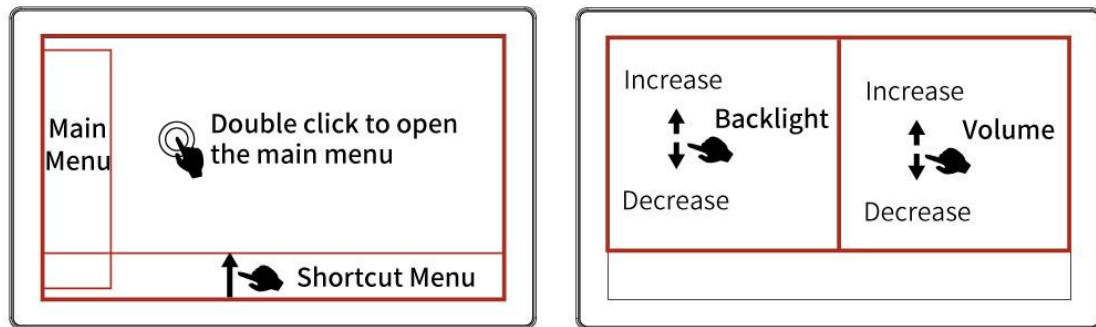
4. Menu Operation Instruction

Ensure the monitor is charged, long press POWER key turn on power , and then plug HDMI signal.

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

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

①. Double-click on the screen to open the main menu (show on the left side of the screen) and click on the corresponding menu to display the secondary menu. You can enter the corresponding function option and click directly to select or set. Click the touch screen to exit the menu.

②. When the menu is not displayed, swipe up from the bottom of the screen to open the shortcut menu, swipe left or right select the needed function and click on the corresponding menu box to turn on or turn off the corresponding function. (remark: the shortcut menu can't set the detail function or parameters, you can set on main menu)

③. When the menu is not displayed, on the left side of the screen (1/2 split screen), you can directly adjust the brightness of the screen backlight; on the right side of the screen (1/2 split screen), you can directly adjust the volume.
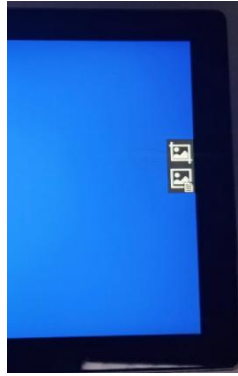
Figure:

4.2 Screenshot + Image Overlay Instruction

The monitor supports screenshot, image overlay functions. The number of screenshots stored depends on the capacity of USB flash drive.
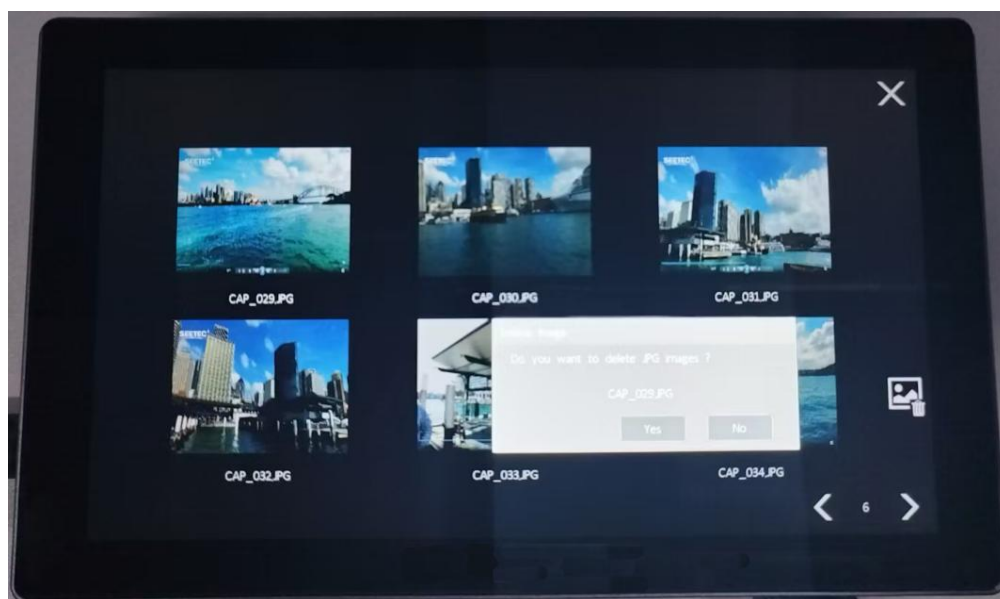
You can also import the custom images (must be JPG image and the resolution not exceeding 1920x1080)

Tip: Please use empty USB flash drive or make sure it without upgrade file. And don't remove the USB flash drive when using this function.

①. After turning on the monitor, insert the USB flash drive to the USB-A to USB-C adapter and connect to the Type-C port of the monitor, then input the signal.

②. Swipe your finger to the left on the right side of the screen to display the screenshot function menu. Tap any position of the screen can hide the menu.

③. Click the icon to capture the desired image, then click the icon to browse all the captured images. Click on the icon < or > to turn pages. If you want to delete an image, firstly click to select the image you want to delete, then click on the icon and follow the prompt to delete it.
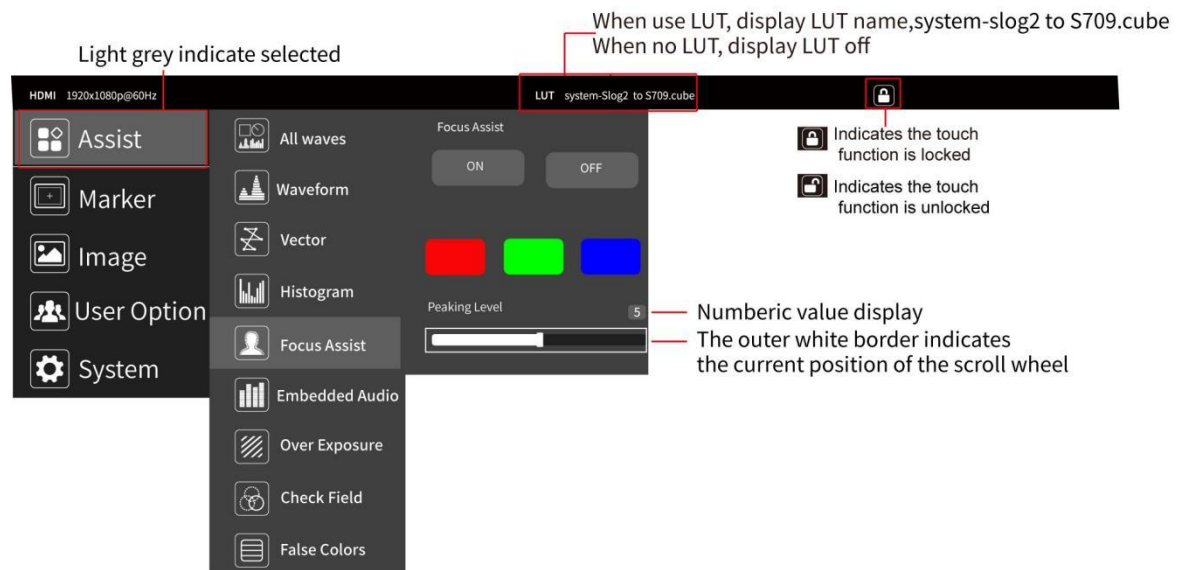

④. Double click the image you want to overlay to complete the overlay, click anywhere on the screen can display the icons of adjusting transparency and turning off the overlay function.

: click it to close the overlay function

∧/∨: adjust the image transparency（1~10）

5. MENU Interface Instruction

When use LUT, display LUT name,system-slog2 to S709.cube
When no LUT, display LUT off

Light grey indicate selected

HDMI 1920x1080p@60Hz LUT system-Slog2 to S709.cube

Indicates the touch function is locked

Indicates the touch function is unlocked

Assist

All waves
Waveform
Vector
Histogram
Focus Assist
Embedded Audio
Over Exposure
Check Field
False Colors

Marker
Image
User Option
System

Focus Assist

ON   OFF

Peaking Level   5

Numberic value display
The outer white border indicates the current position of the scroll wheel

9

6. Menu Function Instruction

 Assist

 All Waves	**On, Off** After turning on, waveform, vector, histogram and embedded audio will be shown.
 Waveform	**On, Off** **Mode : RGB、YUV、Y** **Waves Trans. : Off, 25%, 50%, 75%** **Position X: 0~100** (moving the waveform horizontally) **Position Y: 0~100** (moving the waveform vertically) This essential feature assists with the calibration of professional video cameras. It shows the overall brightness of the image assisting the video professional in correcting exposure. The waveform feature also checks the evenness of the lighting when lighting a chromakey or background.
 Vector	**On, Off** **Position X: 0~100** (moving the Vector horizontally) **Position Y: 0~100** (moving the Vector vertically) shows how saturated the image is and where the pixels in the image land on the color spectrum.
 Histogram	**On, Off** **Mode：RGB1、RGB2、Y** **Position X: 0~100** (moving the histogram horizontally) **Position Y: 0~100** (moving the histogram vertically) RGB Histogram:It can display the graphic of color tone distribution, can intuitively display the exposure status of the image, and display overlapping histograms in red, green, and

	blue channels Y Histogram: A quantitative tool to check the picture brightness, display different color for different brightness.
Focus Assist	**On, Off** **Color :**（Red, Green, Blue） **Peaking Level : you can adjust the peaking level after turning on (1～10)** It highlights the areas that are in focus so you are able to quickly focus the camera and not miss crucial shots.
Embedded Audio	**On, Off** **Position X: 0~100** (moving the audio level horizontally) **Position Y: 0~100** (moving the audio level vertically) The Audio Level Meters provide numerical indicators and headroom levels.
Over Exposure	**On, Off** **Exposure Level : you can adjust the exposure level after turning on**（10~100） Areas of the image over a certain threshold are filled with a striped pattern to dramatically highlight areas where too much light is falling on the image sensor.
Check Field	**On, Off** **Mode : Red, Green, Blue, Mono** When enabled, hue and saturation adjusted quickly and accurately
False Colors	**On, Off** **Mode: Normal, ARRI** An image that depicts an object in colors that differ from those a photograph (a true color image) would show.

 Marker

  Grid	**On, Off** **Mode: 2x2,3x3,4x4,5x5,6x6,7x7,8x8,9x9, Custom** **Rows: 2~9** **Columns: 2~9** When selecting **Custom**, you can custom the rows and columns of the grid **Color: Red, Green, Blue, Black, White, Gray** The area of the picture can be divided into 4, 9, 16, 25, 36, 49, 64, 81 equal grids.
  Safe Frames	**On, Off** **Mode: 80%, 85%, 90%, 93%, 96%, 2.35:1 ,9:16** **Color: Red, Green, Blue, Black, White, Gray**
  Center Marker	**On, Off** **Color : Red, Green, Blue, Black, White, Gray**
  Ratio Marker	**On, Off** **Mode: 4:3, 13:9, 14:9, 15:9, 16:9, 1.85:1, 2.35:1, 9:16** **Color: Red, Green, Blue, Black, White, Gray** **Modified Mark : 0~5**

 Image

Scan Mode	**Under Scan, Over Scan**
Aspect Ratio	**Auto, 16:9, 16:10, 4:3, 5:4, 1.85:1, 2.35:1, Full Screen** Provides a wide variety of aspect ratio to match different camera anamorphic lenses.
Anamorphic	**On, Off** **Mode：1.33X, 1.6X, 2.0X, 2.0X MAG, User** Under the **User**, can be customized（1.20X～2.00X） Allows you to use anamorphic lenses or adapters and see the image unsqueezed, even if your camera does not de-squeeze in camera.
Image Flip	**On, Off** **Mode: H Flip, V Flip, H_V Flip**
Zoom Mode	**On, Off** **Mode：2X、4X、9X、16X、User** Under the **User**, can be customized（100%~200%） It is HD signal in any part, an amplification for high quality close-up.
Image Freeze	**On, Off**
P2P	**On, Off** Enable the filmmaker to check the image from the 1:1 signal source without scaling.This feature is essential for capturing optimum detail.

👥 User Option

LUT (icon)	**On, Off**
	After the LUT Switch is turned on, you can use the **Lut**
	(SLOG2, SLOG3, LOGC, VLOG).
	The Lut item is displayed after the Lut Switch is turned on.
	LUT is a table for quickly looking up and output specific color
	data. By loading different 3D-LUT tables, it can quickly
	recombine color tone to form different color styles
	Lut Import：Confirm
	Lut Table
	Show the 4 built-in Lut and the custom load Lut (up to 32）
HDR (icon)	**On, Off**
	Mode: HLG1, HLG2, HLG3
	HDR can provide more dynamic range and the details of
	image, it is better to reflect the visual effects in the real
	environment.
Display Adjustment (icon)	**Backlight：0~100**
	Adjust the screen brightness
	Brightness：0~100
	Adjust the image brightness
	Contrast：0~100
	Adjustment of the ratio between the brightest and darkest parts
	of the image . When adjusting, pay attention to the sense of
	hierarchy in the image. If the proportion is too large or too

		small, it can cause the image to lose its colorful appearance. **Saturation：0~100** Adjustment of color concentration **Tint：0~100**
  Color Adjustment		**Display Range: Auto, Limit, Full** This feature allows for the selection of a grayscale range. The Limited grayscale range is 16-235, and the Full grayscale range is 0-255. (Grayscale represents changes in image brightness, using varying gray levels to depict brightness in different image areas. In grayscale, brightness increases from black to white, typically denoted by a numerical range from 0 to 255, where 0 signifies black and 255 indicates white, and intermediate numbers indicate varying grayscale levels.) 1. If the dark part of the picture lost, the details cannot be seen clearly. For example, the input signal is in the range of 0-255, but the monitor is set Auto or Limit, the brightness of 0-15 and 236-255 is removed, resulting the dark part details unclear. You can set to Full. 2. If the picture is gray, the black part turned gray. For example, the input signal is in the range of 16-235, but the monitor is set Full , resulting the black part turn gray. At this time,you can set to Auto or Limit. **Color Temp.：5600K, 6500K, 9300K, User** Under the **User**, the red, green and blue of the image can be adjusted (0~255), made the colors of the image achieve your favorite.

System

User Switch	**User Switch: 1~4** you can save the set menu as 1-4 and can be called directly next time
Language	English、简体中文、Español、Português、Français、Nederlands、Deutsch、日本語、**繁體中文**、한국어로、**русский язык**
OSD Option	**OSD Time：Off, 15Sec, 30Sec, 45Sec** Select the display time of the menu on the screen **OSD Trans: Off, 25%, 50%, 75%** Adjust the transparency of the menu picture background on the screen **No Signal: Red, Green, Blue, Black, White, Gray** Can be change the background color of screen when no signal
Volume	**On, Off** 0~100 Adjusting the speaker volume
EDID Settings	**1.4**
Cooling Fan	**ON, OFF** **Mode:1~5** **Note: the fan default to ON and with 3 mode**
Reset	Select **Reset** and press MENU button **Confirm**, the system back to original setting.

Firmware Update	**Firmware Version** (display the version number) **Firmware Update** **Confirm** How to upgrade? 1. USB flash drive format Support FAT32 2. After copying the update file to USB flash drive insert to Type-C to USB adapter and connect with the TYPE-C interface of monitor , tap **Confirm** to update. 3. The monitor will turn off automatically after finishing, please turn on manually 4. Check the firmware version whether the latest one

7. How to Load LUT

7.1 USB flash drive format FAT32

7.2 Max Files Limit Maximum 32 Lut files

7.3 File requirements

- The LUT file format suffix should be .cube

- Single file not exceeded to 7.9Mb

- Support LUT-3D-Size 16,17,32,33,64,65

Remark: LUT file name must be English or Arabic numerals

7.4 Steps for loading

7.4.1 Make sure USB flash drive insert to Type-C to USB adapter and connect with the TYPE-C interface of monitor

7.4.2 Enter main menu --LUT--**Lut Import -- Confirm** to load

the monitor will auto detect the USB flash drive

If there is valid lut file in USB flash drive, the monitor will load lut files and show "[n] name. The [n] shows the quantity number. The "name" should in lut files' name. If load successful, the screen will show "complete[n]". [n] Stands for the quantity number for lut files should under 32.

PS: How to clear up the imported LUTs?

Insert a empty USB flash drive to the monitor, enter main menu --**LUT**--**Lut Import -- Confirm,** the imported LUTs will be clear up.

8. Technical Parameters

Panel Size	6-inch (touch)
Resolution	1920 × 1080 pixels
Dot Pitch	0.069 (H) × 0.069 (V) mm
Aspect Ratio	16:9
Brightness	1200cd/m^2
Contrast	1000:1
Viewing Angle	80°/80°(L/R) 80°/80°(U/D)
Backlight	LED
Adjustable Backlight	Yes
Input	HDMI 1.4
Other interface	Type-C (firmware update/LUT file upload)
Audio	3.5mm stereo headphone jack
Battery Capacity	3000mAh/22.2Wh
Voltage	7.4V

Battery Runtime After Full Charged	About 2 hours at maximum brightness
Battery Charging Time	2 Hours
Power Connector	USB-C 9V/2A compatible with PD2.0/3.0 fast charging protocol compatible with Samsung AFC fast charging protocol compatible with HUAWEI FCP fast charging protocol compatible with QC2.0/3.0 fast charging protocol Note: the voltage of the charger must be 9V
HDMI Support Format	480i/576i/480p/576p 720p (60/59.94/50/30/29.97/25/24/23.98) 1080i (60/59.94/50) 1080p (60/59.94/50/30/29.97/25/24/23.98) 3840×2160p (30/29.97/25/24/23.98)
Power Consumption	charging + working: ≤21W charging alone : ≤14W full charged working alone: ≤9W
Unit Size (mm)	154x87x17 (mm)
Unit Weight	332g
Mount Points	¼-20 thread points (bottom)
Working Temperature	-20℃～70℃
Storage Temperature	-30℃～80℃

9. Trouble Shooting

9.1 Only black and white or monochrome picture:

① please check saturation, brightness & contrast adjustment.

② Please check "Check Field" is in black, white or monochrome image or other condition.

9.2 NO Image after put on the power

① Check if signal cable connecting is in good condition.

② Check signal cable connecting, and make sure to use the
standard adapter to connect the monitor.

9.3 Earphone No sound

Check if Volume control do not open, press the volume button,
and try to increase the volume.

■ If there are still other problems, please contact with our related
technologists.

★ As we are improving product features and product performance,
so if there is any change on the specification without prior notice.