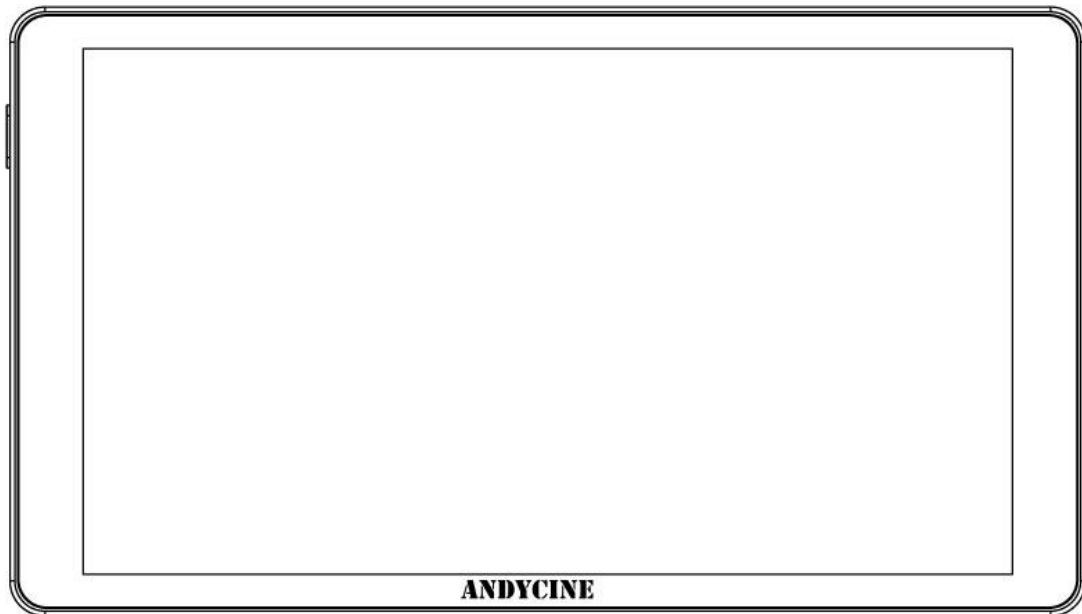


ANDYCINE X5L

6" Rechargeable Camera Monitor



User Manual

Send an Email to cs@andycine.com if you need any customer support.

Foreword

Thank you for choosing the ANDYCINE rechargeable 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.

HDMI cables

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.

What is included?

1 x X5L Rechargeable Monitor

1 x HDMI Cable

1 x HDMI to Micro HDMI Cable

1 x USB-A to USB-C Cable

1 x Mini Hot Shoe Mount

1 x Sunshade

1 x USB-C to USB-A Adapter

1 x User Manual

Optional accessories including power and accessory kits and are also available. Visit www.andycine.com for the latest accessory options.

NP-F Battery

Carry Case

HDMI to HDMI Cable

HDMI to Mini HDMI Cable

DC 12V Power Adapter

D-tap to 2pin DC Power Cable

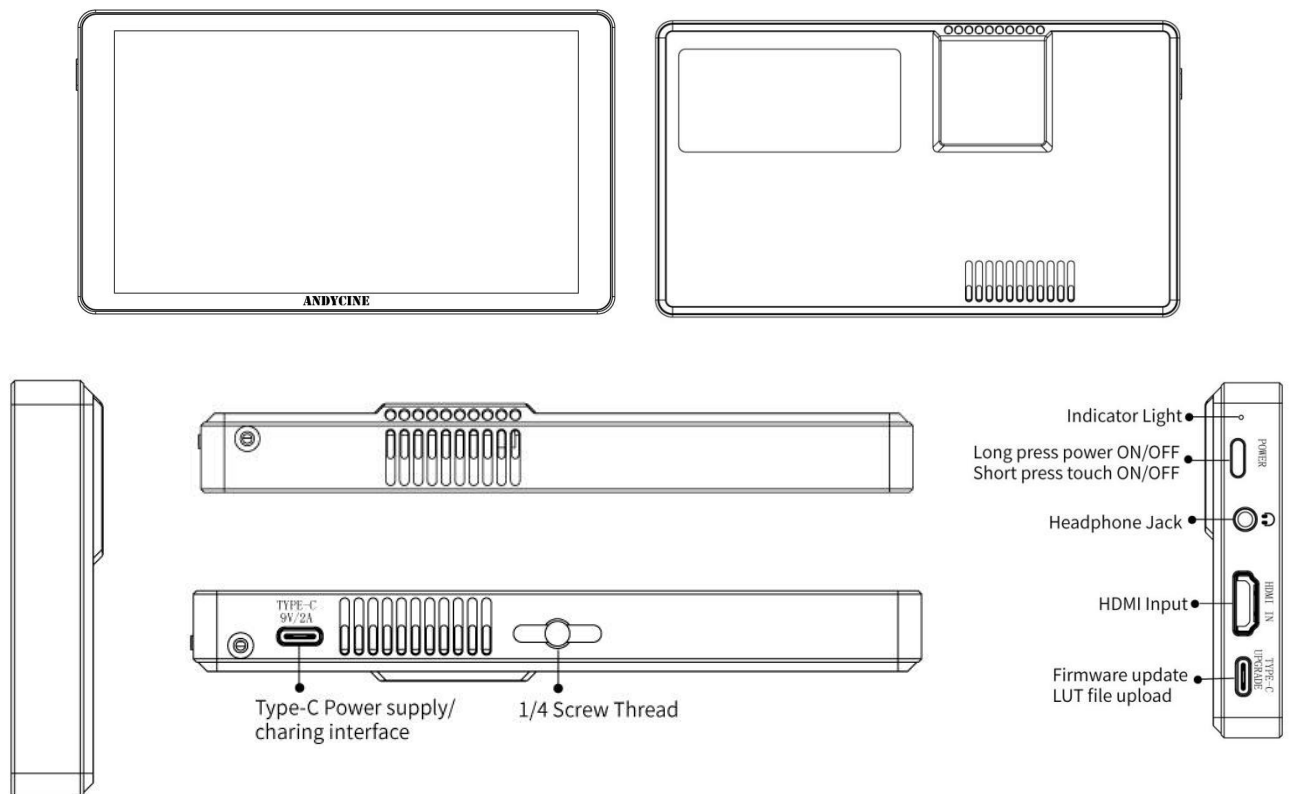
Key Features

- 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 with 100% battery level
- Full touch screen, easy 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, Instagram
- 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

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1. Product Overview



2. Power Supply Way

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

This port can provide power to the monitor through the included USB-C to USB-A cable. The monitor 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 to shut down when 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

Note: the voltage of the charger must be 9V

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 ② with 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

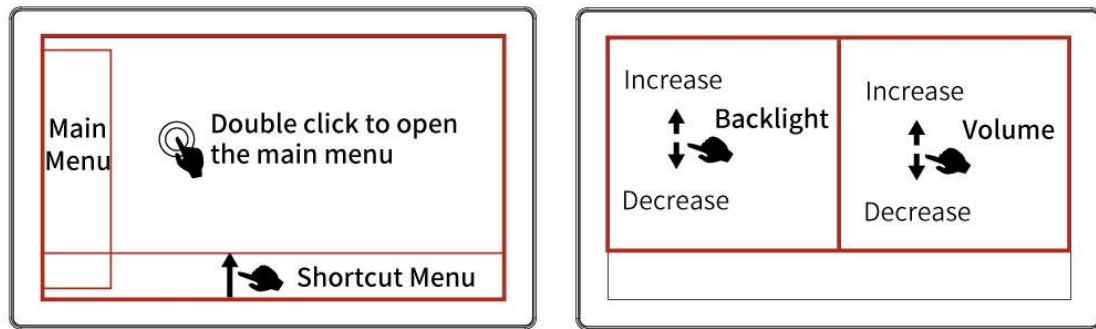
After the monitor is correctly connected to the power supply, the indicator light is on (red). Long press POWER key turn on power , the indicator light turns yellow, and after the HDMI signal is input, the indicator light turns green.

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:

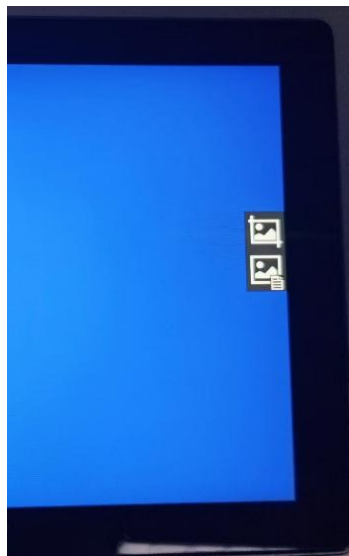


4.2 Screenshot + Image Overlay Instruction

The monitor supports screenshot, image overlay functions. The number of screenshots stored depends on the capacity of USB flash driver.

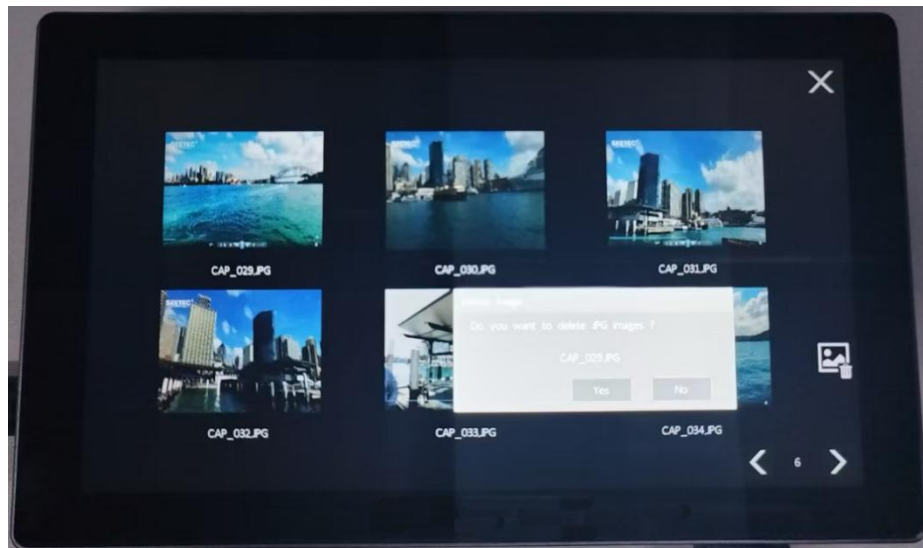
You can also import the custom images (must be JPG image)

- ①. After turning on the monitor, insert the USB flash driver 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.



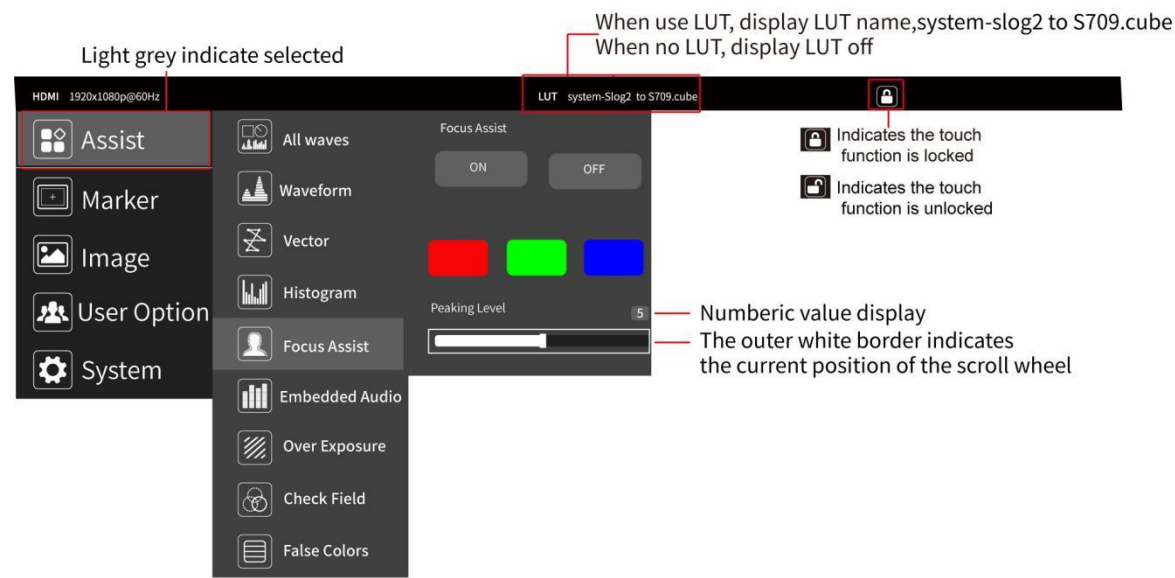
④. Double click the image you want to overlay to complete the overlay, click anywhere on the screen can display the icons of adjusting transparency and turning off the overlay function.

: click it to close the overlay function

$\wedge/\vee$: adjust the image transparency (1~10)



5. Menu Interface Instruction



6. Menu Function Instruction



 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.
	On, Off

Safe Frames	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	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	On, Off Mode: HLG1, HLG2, HLG3 HDR can provide more dynamic range and the details of image, it is

	better to reflect the visual effects in the real environment.
 Display Adjustment	Backlight: 0~100 Adjust the screen brightness Brightness: 0~100 Adjust the image brightness Contrast: 0~100 Adjustment of the ratio between the brightest and darkest parts of the image . When adjusting, pay attention to the sense of hierarchy in the image. If the proportion is too large or too small, it can cause the image to lose its colorful appearance. Saturation: 0~100 Adjustment of color concentration Tint: 0~100
 Color Adjustment	Display Range: Auto, Limit, Full This feature allows for the selection of a grayscale range. The Limited grayscale range is 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.
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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	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

7. How to Load LUT

7.1 USB flash driver 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 driver 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 driver

If there is valid lut file in USB flash driver, 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 an empty USB flash driver to the monitor, enter main menu --LUT--Lut Import -- Confirm, the imported LUTs will be clear up.

Firmware Updates (AndyOS)

From time to time we will issue software updates for your Andycine Monitor. To update the firmware (that’s the software that runs inside your Andycine Monitor), there is a simple procedure you have to follow.

1. Extract the files .bin from the firmware zip file.
2. Copy these files onto a USB Flash Drive.
 - a. AndyOS recommends you use a freshly formatted compatible USB Flash Drive (FAT32 or NTFS).
 - b. Ensure that the firmware update file is on the root of the USB Flash Drive, and not in a folder or sub folder.
3. Insert the USB Flash Drive with X5L.bin file.
4. Use a freshly charged battery on your X5L or connect to mains power. It is very important that your monitor does not lose power during a firmware upgrade.
5. Power up your monitor with a long press of the Power Button.

6. Double tap monitor screen to access menu, Select Setting, Select firmware to update.

7. Watch the screen, the firmware upgrade will start.

8. While the firmware upgrade is happening, an 'updating firmware' screen will appear.

9. The firmware upgrade will take up to a few minutes.

Let it finish updating when finish it should reboot, if not, turn it off and on again

Done

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	Battery Capacity: 3000mAh/22.2Wh Voltage: 7.4V Runtime : About 2 hours at maximum brightness

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.

If you have more questions, please contact us

Customer Support: **cs@andycine.com**

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Instagram: @andycinegear

Twitter: @andycinegear

★ Please note: Specifications are subject to change without notice. All information correct at time of publishing.

