

SmallRig

Wireless Tethering Hub for Cameras

[For Sony Cameras]



User Manual

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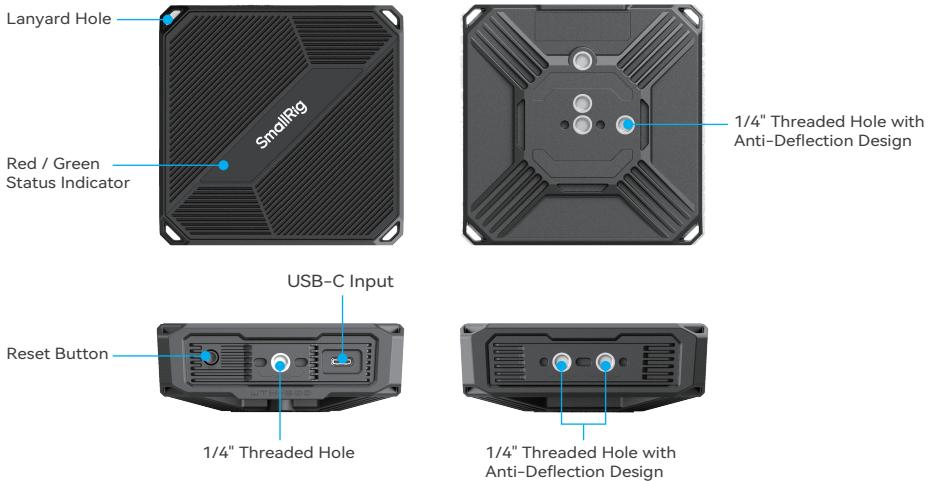
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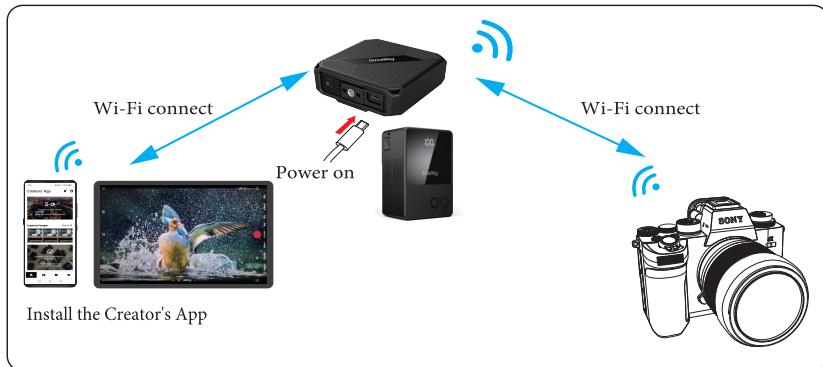
Chapter 1 Introduction and use



Note: The power supply can be a power bank with 5V=3A output.

1. Connect the power supply;
2. The "SmallRig" indicator changes from red to green, indicating successful startup;
3. Wait for approximately one minute, and the smartphone will detect the Wi-Fi signal [SmallRig_5G_****] [SmallRig_2.4G_****]

2, Use diagram



Users must prepare the power bank, camera, and smartphone (or tablet) themselves.

3 Battery life

Battery life test data of WTH-500

Battery model	Battery capacity (Wh)	Working voltage (V)	Working current (A)	Power (W)	Actual battery life(H)
XIAOMI power bank/10000mA	37	5	0.6	3	9

Note:

1. The battery life will vary depending on the battery.
2. The battery life will vary slightly when connecting to different models of cameras.
3. The measured data is for reference only

Chapter 2 Compatibility and use

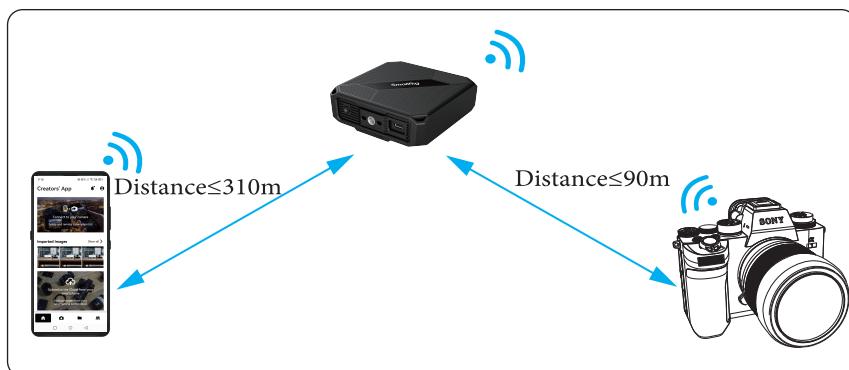
1, Compatible models

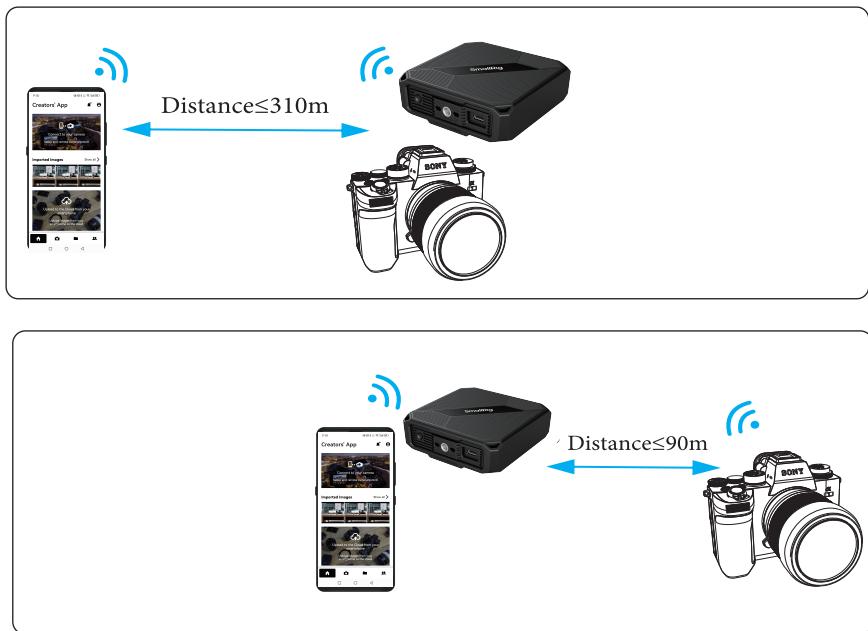
Wi-Fi Channel		Camera model		Remote control distance			
				Distance between mobile phone and camera remote	Distance between camera remote and camera	Total remote control distance	Distance to ground
Two channels on camera	5.8G	Camera model	A1、A9 III、A7SIII、A7RV、A7MIV、A7CR、A7C II、ZV-E1、A6700、FX3、FX30	$\leq 310m$	$\leq 90m$	$\leq 400m$	2m
	2.4G						
One channel on camera	2.4G	Camera model	A9 II、A9、A7RIV、A7RIII、A7MIII	$\leq 185m$	$\leq 70m$	$\leq 255m$	2m

II. Schematic Diagram of Remote Control Distance

Test Environment: Open riverside area with no obstructions; both the Wireless Tethering Hub for Cameras and the camera are mounted at a height of 2 meters, with good communication conditions;

Schematic Diagram of Communication Distance Between Smartphone, Wireless Tethering Hub for Cameras, and Camera.





III. Description of Communication Distance for the Wireless Tethering Hub for Cameras

1. Device Layout

Ensure there is no obstruction or slight obstruction between devices; heavy obstruction will cause signal interruption and latency.

The camera should be kept off the ground, and the Wireless Tethering Hub for Cameras should be placed close to the camera.

The higher the Hub is mounted, the stronger the signal and the longer the communication distance.

2. Device Performance

Newly Released Camera + High-Performance Smartphone = Longer Communication Distance.

3. Communication Frequency Band Selection

Wilderness/Uninhabited Areas: Use the 5.8 GHz frequency band for the longest remote control distance.

Urban/Interfered Areas: (e.g., near stadiums or base stations): Use the 2.4 GHz frequency band; the remote control distance is shorter but more stable.

IV. Device Layout Methods and Tips for Ensuring Smooth Communication

1. Smooth communication between the Wireless Tethering Hub for Cameras, camera, and smartphone (or tablet) is key to smooth shooting.

2. A triangular layout is an effective way to avoid obstructions.

Concealed Shooting Layout:

Wireless Tethering Hub for Cameras: Mounted at a commanding height (e.g., tripod, tree branch, or rock)

Camera: Placed close to the subject

Operating End: Can be hidden behind cover (e.g., inside a vehicle, in bushes, etc.)

Depression Shooting Solution:

Camera: Placed in the depression

Wireless Tethering Hub for Cameras: Must be mounted at a commanding height. An extension bracket is recommended

3. Device Maintenance

Keep the device battery level above 20%.

Impact of Low Battery Level: Picture latency will increase by 30-50%, and image quality will be automatically reduced.

4. Troubleshooting Process:

- ① Check the Wi-Fi connection status
- ② Confirm the device power supply is functioning properly
- ③ Verify the camera connection status
- ④ Restart the entire system if necessary



Chapter 3 Multiple shooting mode

The Wireless Tethering Hub for Cameras supports [One-to-One], [One-to-Many], and [Many-to-Many] modes.

I. [One-to-Many] Mode

1. [One-to-Many] Mode Description

One smartphone can remotely control 2 (or 3) cameras to shoot. It can be used with a combination of different models from the same brand or different brands; however, only compatible models from Canon, Nikon, or Sony are supported.

Camera model	Qty of cameras	Qty of mobile phones	App
Sony A1	1	1	Creators'App
Canon R5	1		CameraConnect
Total	2	1	Note: Sony/Canon can be changed to Nikon cameras(Install SnapBridge App)

WTH500 [One to many]mode Diagram



2. [One-to-Many] Mode Operation Methods and Requirements

- (1) Connect 2 cameras and 1 smartphone to the Wi-Fi [SmallRig_5G_****] at the same time
- (2) The same smartphone must have brand-specific Apps installed (e.g., Sony Creators' App, Canon Camera Connect)
- (3) Launch the Sony App → Connect to the A1 camera → Complete shooting
- (4) Exit the Sony App → Launch the Canon App → Connect to the R5 camera → Complete shooting.
- (5) One smartphone can remotely control 2 cameras, but simultaneous shooting with both cameras is not supported. You must switch between brand-specific Apps.

Open one App, connect to its corresponding camera, and start remote shooting; exit the App, then open the other app;

3. Functions of [One-to-Many] Mode

- (1) Multi-camera setup for shooting the same target from multiple angles and directions.
- (2) Capture image materials from different angles in one shoot to present the subject's full view or details in a three-dimensional way.

4. Precautions

The more cameras connected simultaneously, the more congested the communication channel will become, and the lower the communication quality will be.

II. [Many-to-Many] Mode

1. [Many-to-Many] Mode Description

One Wireless Tethering Hub for Cameras (WTH-500) can remotely control up to 3 cameras simultaneously for shooting.

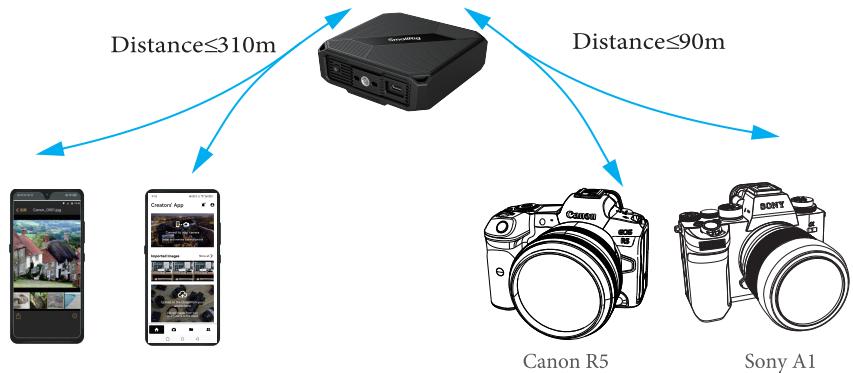
Cross-brand model mixing is supported; however, only compatible models from Canon, Nikon, or Sony are allowed.

For example: 2 smartphones and 2 cameras connect to the Wi-Fi of one Wireless Tethering Hub for Cameras at the same time. Simultaneous remote control of 2 cameras for shooting is supported.

For example: Two photographers go shooting together with only one Wireless Tethering Hub for Cameras (WTH-500). Both can use this single Wireless Tethering Hub for Cameras: connect their respective smartphones and cameras to the Wi-Fi, operate independently, and remotely control their own cameras for shooting.

Camera model	Qty of cameras	Qty of mobile phones	App
Sony A1	1	1	Creators'App
CanonR5	1	1	Camera Connect
Total	2	2	Note: Sony/Canon can be changed to Nikon cameras(Install SnapBridge App)

WTH 500 [Many to many] mode diagram



2. Operation Methods and Features

- (1) Connect 2 cameras and 2 smartphones to the Wi-Fi [SmallRig_5G_****] respectively;
- (2) Both smartphones can use their respective Apps at the same time to remotely control their corresponding cameras for shooting;
- (3) One smartphone controls one camera for photo shooting, and the other controls the other camera for video recording; both can switch between photo and video modes as needed.
- (4) Two-person collaboration: Each person operates one camera independently;
Single-person dual control: Use two smartphones to operate separately.

3. Value of [Many-to-Many] Mode

(1) Multi-camera collaboration: Synchronously capture multi-angle materials of the same target (e.g., front, side, top view, etc.)

(2) Multi-target coverage: One system can shoot 2 to 3 adjacent targets simultaneously

4. Precautions

The more cameras connected simultaneously, the more congested the communication channel will become, and the lower the communication quality will be.

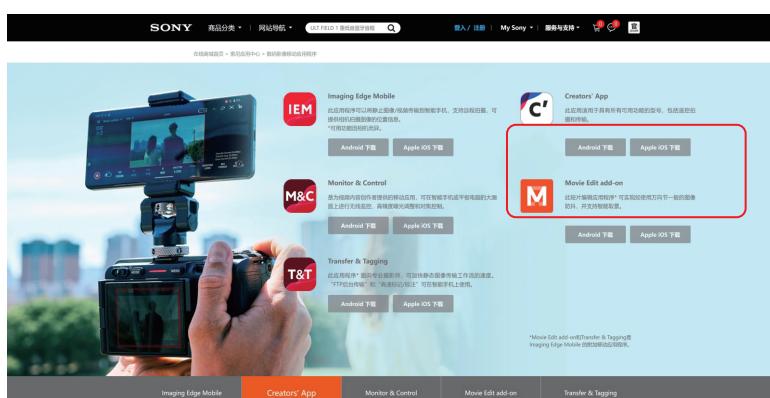
Take the A1 and A7S III as examples to explain how to use the official App when connecting the camera and smartphone (or tablet) to Wi-Fi.

Chapter 4 Operating method of Sony camera

1,The camera is connected to Wi-Fi/mobile phone(or tablet) for the first time

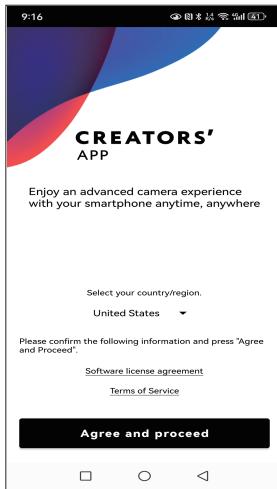
Step 1: Preparation

(1)Download and install the Creators'App to your phone or tablet



Note: Please download the Creators' App from official website or browser, do not download from the App store of mobile phone

Open the Creators'App, and enter the homepage according to the prompts.



9:16

Privacy Policy

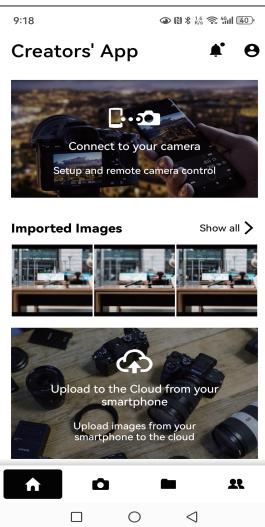
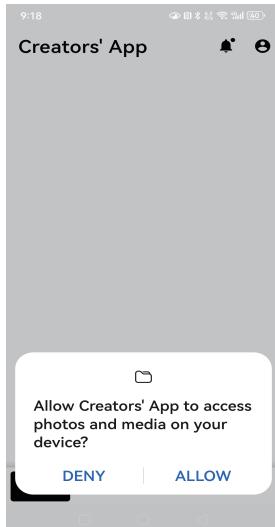
Privacy Policy for "Creators' Cloud"

Last Updated: 2024-12

This Privacy Policy sets out how Sony Electronics Inc. ("Sony", "SONY", "we", "our" or "us") collects, uses, stores and

Please read the privacy policy above carefully. Section 2 of the privacy policy above explains how we process the personal data/information for each purpose.

[Agree and proceed](#)

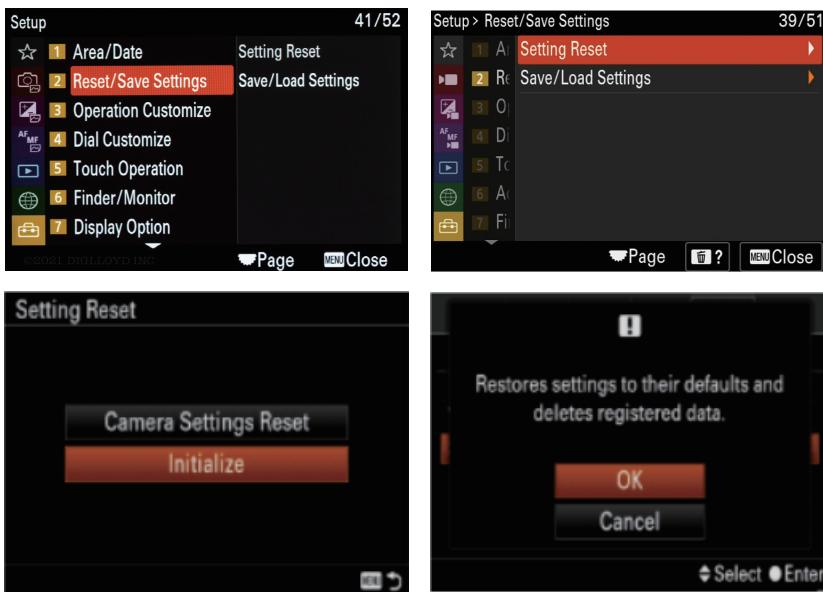


(2) Upgrade the camera firmware or ensure that it is the latest firmware released by Sony

Cameras that do not meet the firmware version requirements cannot connect to the external network with the Creators' App. For methods to check the firmware version number and how to upgrade the firmware, see Point 5 in Chapter 3 of this manual.

(3) Camera initialization

- ① The firmware has just been upgraded and the camera does not need to be initialized
- ② Before using the camera remote, if the camera has multiple custom settings, or other communication methods such as mobile phones are used to remotely control shooting, it is difficult to restore to the original state through the [MENU] menu settings. You can initialize and quickly restore the camera as following:



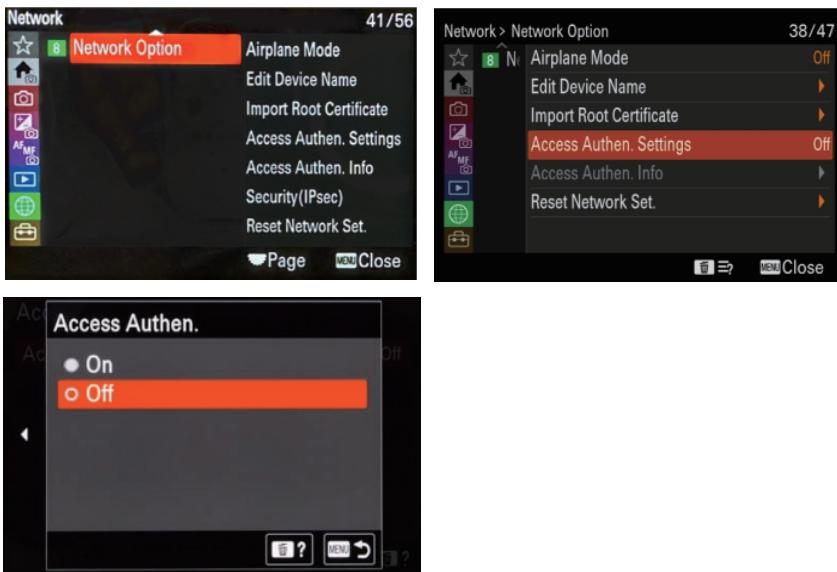
(4) Camera settings

①The EV switch must be set to **【0】** on the camera body, then you can remote to set the EV value from Creators'App.



②Access Authentication Settings

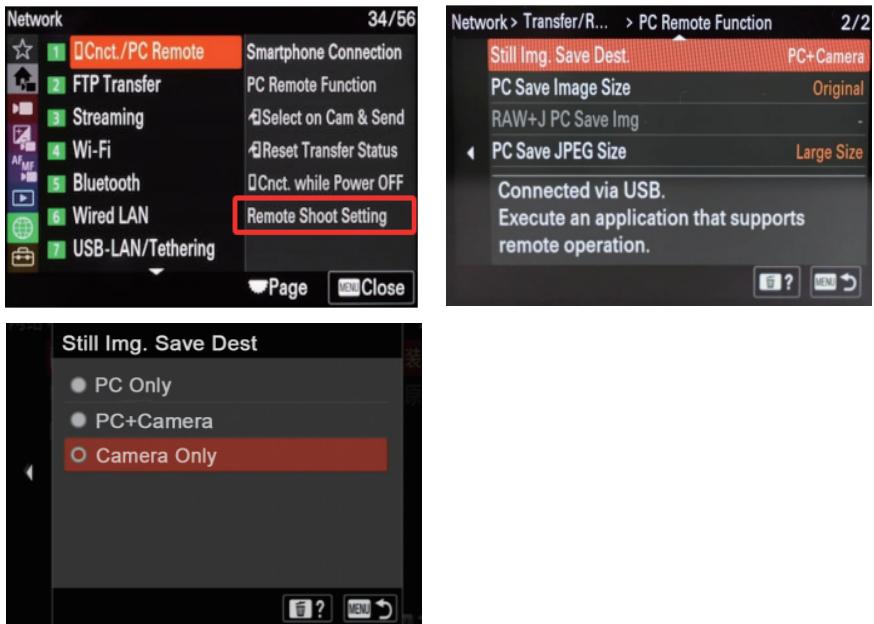
A,Menu- Network-Network option- Access Authen.Settings-OFF



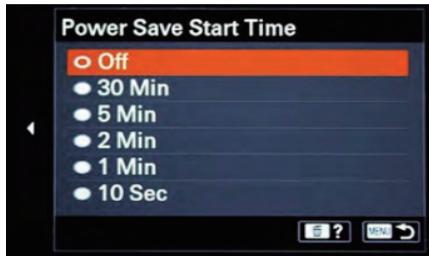
③Click 【OK】 if there is a confirming information pop up



(3) Still Img. Save Dest. set to 【Camera Only】



【Menu】 → 【Setup】 → 【Power Setting Option】 → 【Power Save Start Time】 → 【Off】



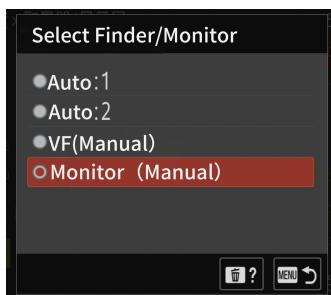
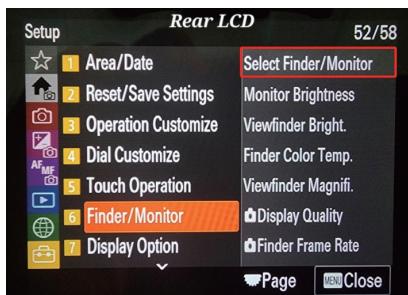
Note

- (1) Some models do not have the [Off] option, you can select the longest time.
- (2) If the camera does not shoot for about an hour, it will enter deep sleep and the camera will lose connection with the gimbal Wi-Fi.

Solution: operate the camera once within an hour.

[Viewfinder / Display] Setting: Select [Display (Manual)]

This setting allows touch focusing on the screen when operating the App via smartphone or tablet.



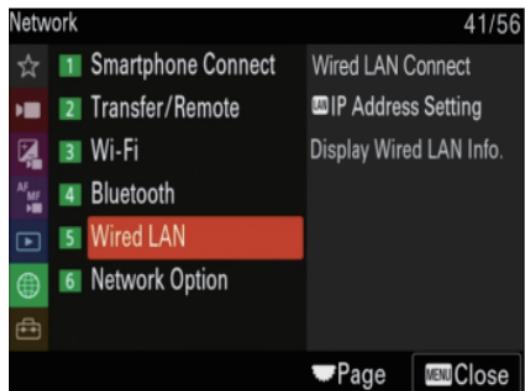
Step 2: Steps to connect the camera to the Wireless Tethering Hub for Cameras (WTH-500)

[SmallRig_5G] Wi-Fi

(1) Wi-Fi connecting setting

① 【Menu】 → 【Network】 → 【Wired LAN】 → 【Wired LAN Connect】 → 【Off】

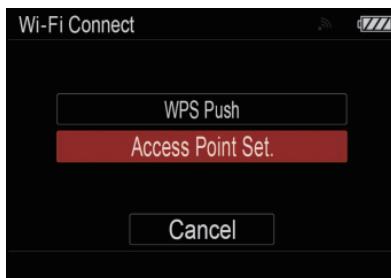
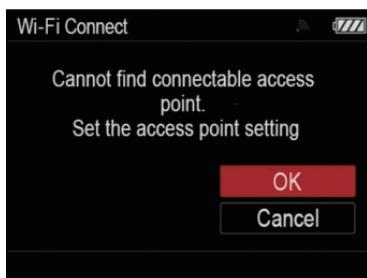
(Note: This item can be ignored for cameras without wired LAN connection function, such as A7M IV, A7S III, etc.)



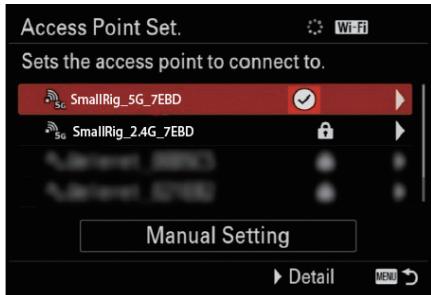
②【Menu】→【Network】→【Wi-Fi】→【Wi-Fi Connect】→【On】



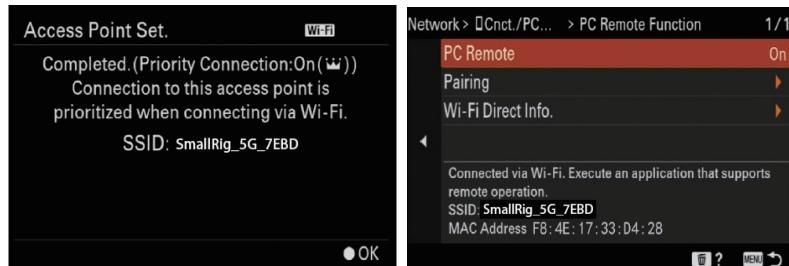
③When the camera is connected to Wi-Fi for the first time, a message will pop up saying[Cannot find connectable access point. Set the access point setting], then click [OK] and select [Access Point Set.] in the pop-up window to automatically enter the Wi-Fi search page.



④ Click login when searched the Wi-Fi 【SmallRig_5G_***】



⑤ When the camera pops up the following prompt, it means the Wi-Fi connection is successful. You can proceed to the next step of network option settings.



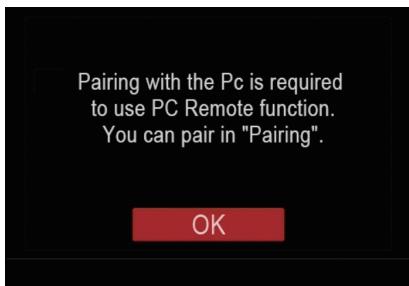
(2) Network option setting

① 【MENU】 - 【Network】 - 【Cnct/PC Remote】 - 【PC Remote Function】 - 【PC remote】 set to 【On】

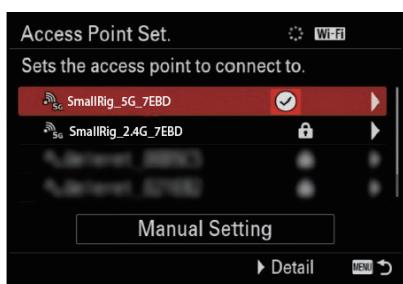
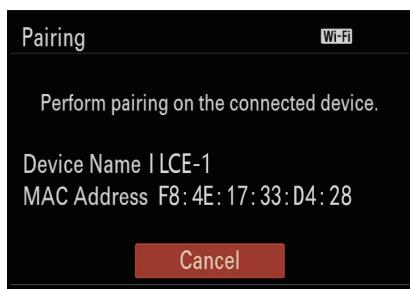




②Click 【Pairing】 then click 【OK】 when the confirming information pop up.



③When the "Pairing" pop-up appears on the pairing page, open the tablet app to connect.



Step 3:

Connect the smartphone Creators' App to the camera and perform remote shooting

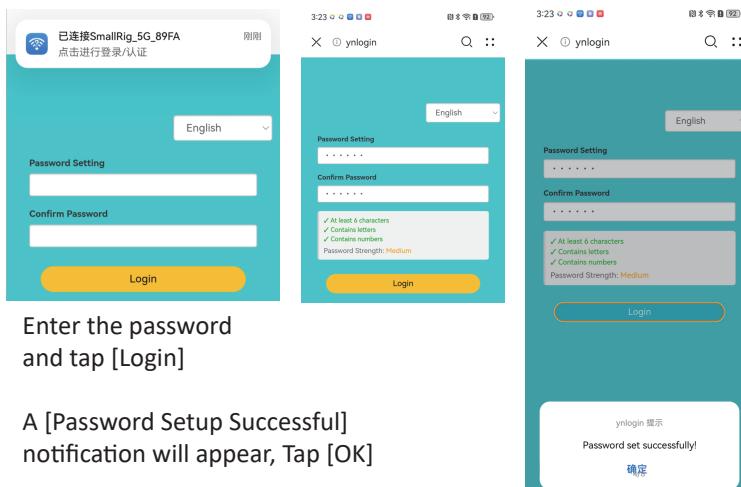
(1) Connecting the Sony Creators' App to the Camera

1. Confirm the Wireless Tethering Hub for Cameras is turned on, open the Wi-Fi settings on the smartphone, search for the Hub's Wi-Fi [SmallRig_5G_****], tap [Connect], and the password setup page will appear.



2. Set the password:

- A password is required for every use;
- Be sure to remember it; if forgotten, reset the Hub to factory settings (see reset instructions on page ***)
- Password requirements: Must include letters and numbers; choose a memorable password (e.g., aaa666).
- After connecting to Wi-Fi [SmallRig_5G_****], the password setup page should appear automatically. If it doesn't, open a browser and manually enter [192.168.100.1].



Enter the password you just set again and tap [Login]

Scan

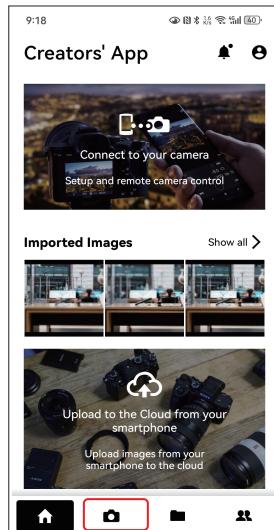
After scanning is complete, this page will pop up; exit and navigate to the WLAN Wi-Fi page



Tap [SmallRig_5G***]; a [Connected] status will be displayed; then proceed to the next step

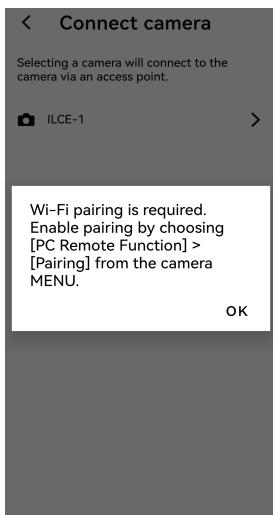


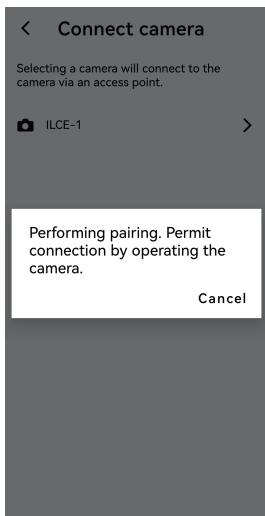
Return to the home screen and open the Creators' App



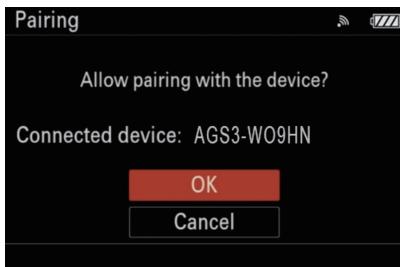
③ Click the settings icon in the upper right corner to enter the settings page and set the connection method to [Connect via WiFi only].

④ Click the camera that is identified in the list. A prompt will pop up asking you to pair with WiFi. Click [OK] and follow the prompts to set up the camera.



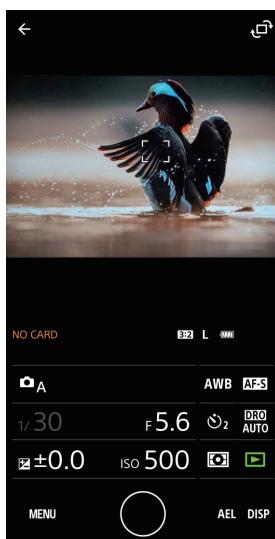
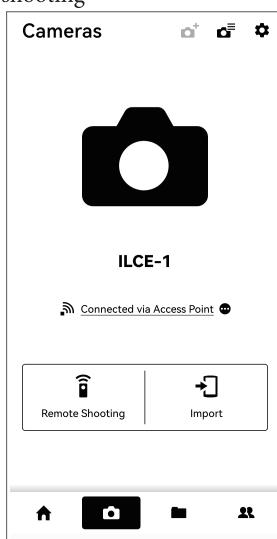


⑤When the pairing prompt pops up on the camera, click [OK]



Note: AGS3-W09HN is the name of the tablet and will appear differently on each device.

⑥Click [Remote Shooting] on the APP page to start controlling the camera shooting



Save the camera settings. After the above operations are completed, flip the power switch on the camera body, turn it off and then on again to save the camera settings. After turning on the camera again, repeat the previous ④⑤⑦ items, and the APP can be connected without operating the camera.

After saving the camera settings, operate [Camera Restart] [Sleep Settings] during use to exit Sony Creators' App, and the camera and SmallRig_5G_***, will always maintain communication. You can connect to the camera just by operating the Creators' App.

If you didn't save the camera setting, you need to repeat all the steps when you connect next time.

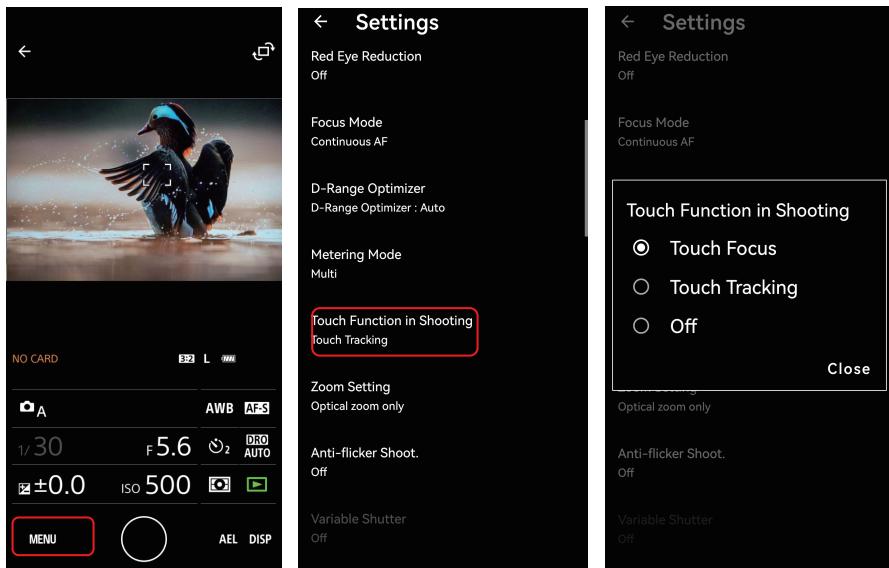


Flip the switch to restart the camera.

(2) Shooting setting

① Focus setting

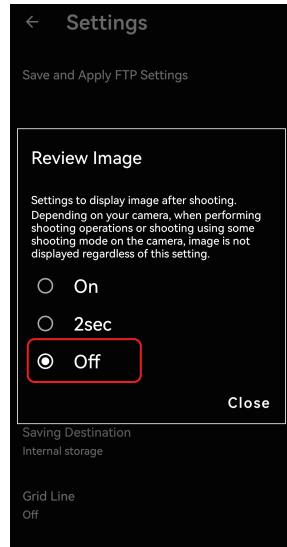
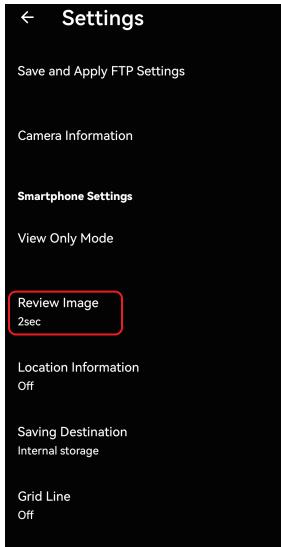
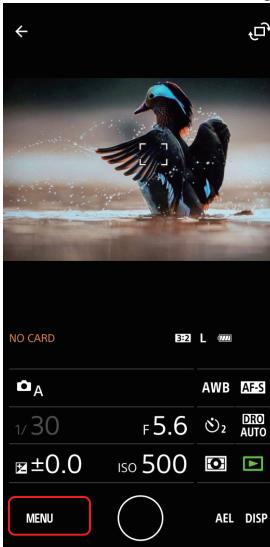
In the Sony Creators' App camera interface, click [MENU] to open the settings, pull down to find the touch function during shooting, and select the touch focus mode.



② Review image setting

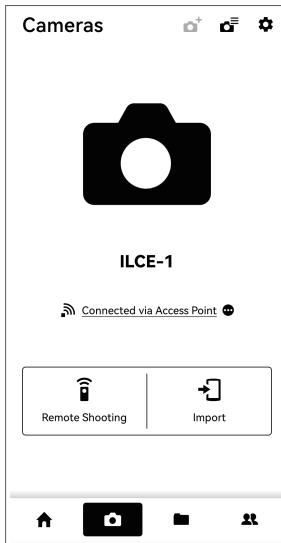
In the Sony Creators' App camera interface, click [MENU] to open the settings, pull down to find the [Review image], set to [Off]

Turn off [Review image] to prevent the preview screen from affecting your shooting and ensure continuous shooting.



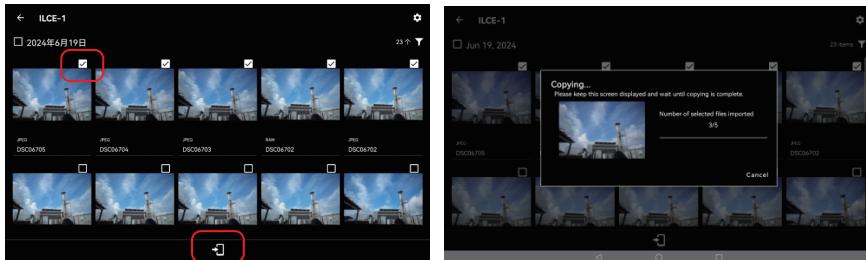
(3) Review images and copy

① Enter the camera page of the Creators' App - select [Import] and confirm according to the prompts to review the photos





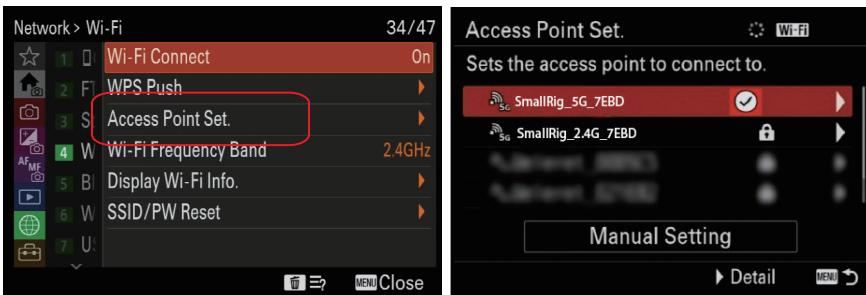
② In the preview state, check the box in the upper right corner of the photo and click the download icon below to copy the photo to your tablet.



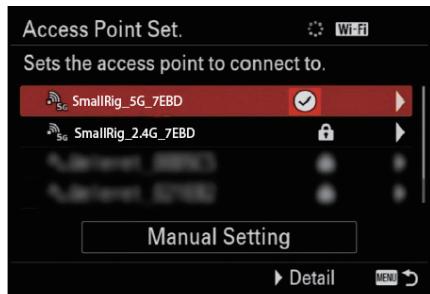
2, After pairing, when using Sony Creators' App again

A paired Sony camera will retain the memory of the previous connection if it has not been connected to other communication devices or communication methods. Therefore, it is more convenient to connect again.

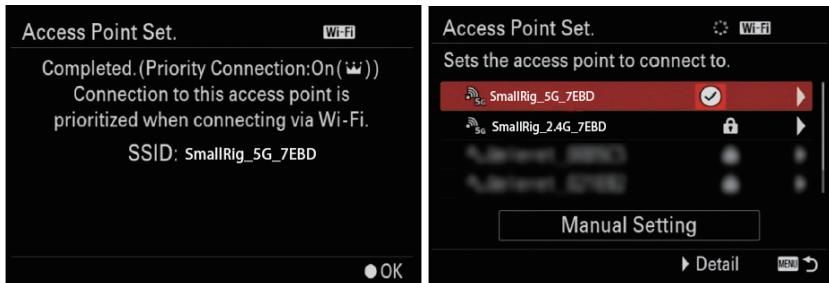
(1) [MENU]-[Network]-[Access point Set], find [SmallRig_5G_***], click and enter the search page.



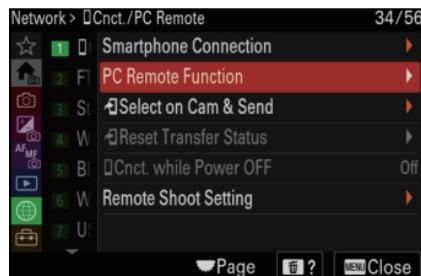
(2)[MENU]-[Network]-[Access point Set],find [SmallRig_5G_***],click and enter the search page,the right side page will pop up after searching.



(3)When the following page of camera pops up, means the Wi-Fi is connected successfully,click OK to enter the next step.



(4)[MENU]-[Network]-[Cnct/PC Remote]-[PC Remote Function]-[PC remote] set to [On]



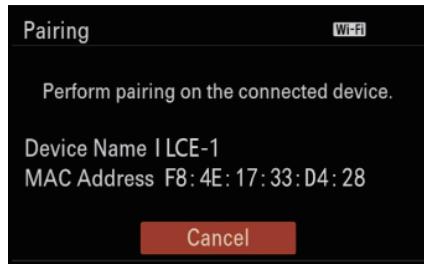


(5) Click 【Pairing】 ,then click 【OK】 when the confirming information pop up.



(6) When the "Pairing" pop-up appears on the pairing page, open the tablet app to connect.

(7) Enter the Creators'App to connect the camera and remote control shooting according to the steps on P14,15.



3, Features of Creators'App

(1) Features of communication connection

The camera and the App have a memory function, so they can connect quickly when reconnecting.

①Memory function

A,It refers to a fixed mobile phone and camera, If you change a mobile phone,or reinstall the App on a mobile phone and connect it to the camera, you need to reconnect,The paired cameras will be saved in the camera,you need to create a new pairing.

B,If you cannot distinguish between the paired phone and camera, you can initialize the camera.

②The camera will remain connected to the Wi-Fi SmallRig_5G_***, without powering off and restarting

A,Exit Creators'App,If you do not select[Disconnect],you can continue to connect to the camera by operating the App.

B,If you select [Disconnect] when exiting the Creators'App, enter again,click[Reconnect]to operate as you did the first time.

C,If you select [Disconnect] when exiting the Creators'App, and disconnect the SmallRig_5G_***, before reentering,your mobile phone need to connect the Wi-Fi SmallRig_5G_***,then operate as you did the first time.

③ The camera power off, the camera remote power off

A,If the camera has not been connected to other networks, no matter how long it has been powered off, as long as the WTH500 and the camera are turned on, the camera will automatically connect to SmallRig_5G_***, communication first. B,After turning on the camera remote,your mobile phone reconnects the Wi-Fi SmallRig_5G_***,then operate as you did the first time.

(2) Features of Creators'App

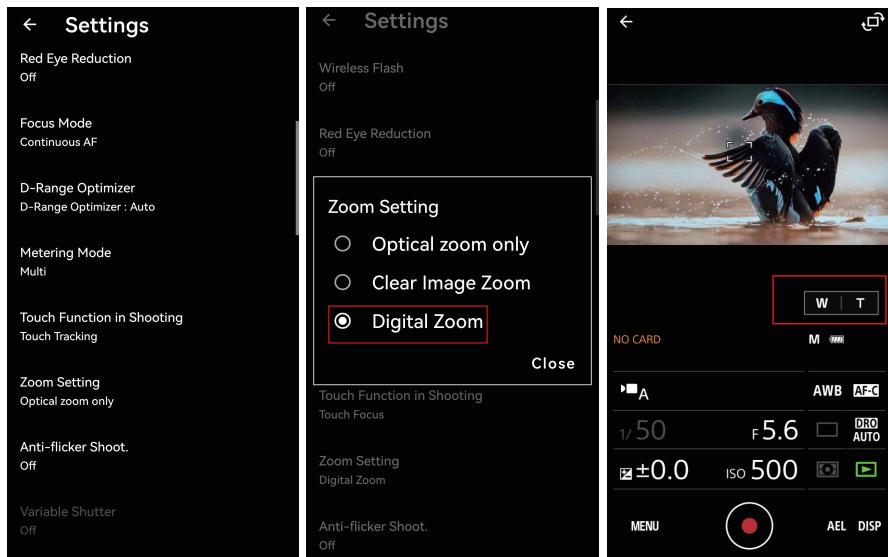
Brand	Model	Camera shooting mode setting	Creators'App		
			Photo mode	Video recording	Switch between photo shooting and video recording
Sony	Compatible model	Camera shooting mode(Single shot)	Single shot/continuous shot optional, exposure mode optional		OK,All exposure modes can be switched and selected
		Camera shooting mode(Continuous shot)	Single shot/continuous shot optional, exposure mode optional		OK,All exposure modes can be switched and selected
		Video mode		Video exposure mode optional	OK,All exposure modes can be switched and selected

(3) Creators' App can directly drive Sony power zoom lens zoom

Sony power zoom lens: FE PZ 16-35mm F4 G; FE PZ 28-135mm F4 G OSS; E PZ10-20mm F4 G; E PZ 18-105mm F4 G OSS; E PZ 18-110mm F4 G OSS; E PZ 18200mm F3.5-6.3 OSS

(4) Creators' App can directly drive the camera digital zoom.

The default page is "Optical zoom only". After selecting "Digital zoom", click the image screen and the "W" and "T" zoom buttons will appear. Press and hold the W or T button to perform digital zoom.



4, Notes

(1) If the camera does not shoot for about an hour, it will enter deep sleep and the camera will lose connection with the gimbal Wi-Fi.
Solution: operate the camera once within an hour.

(2) If the following reminder pops up

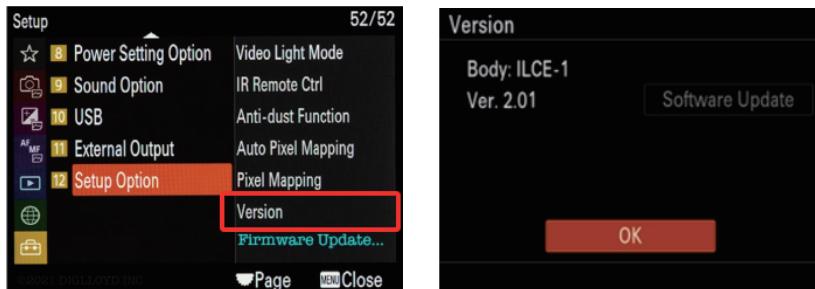


Don't worry if you see this reminder, and there is no need to click OK on the screen. Open the Creators' App and continue the operation. The reminder details will disappear automatically and will not affect the shooting operation.

5, How to update the camera firmware

When the camera firmware version is inconsistent with the latest version on Sony's official website, you need to update the firmware.

(1) How to check the firmware version number



(2) How to update the firmware

① Log in to Sony's official website, select the corresponding camera model, and follow the official website instructions to upgrade.

② Taking A7S III as an example, the upgrade steps are as follows:

Enter the official website download center, search for the A7S III camera code "ILCE-7SM3", find the following firmware upgrade, select Mac or Windows system, click to enter, and follow the relevant instructions to upgrade.

ILCE-7SM3

Alpha 7S III with pro movie/still capability / Included components may vary by country or region of purchase: BC-QZ1



[Specifications](#) [Product Highlights](#)

ILCE-7SM3

Model name or keywords

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All

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Questions & Answers

Downloads

Looking for Firmware Update of your camera?

Find out where to find and how to update here.



Update your Camera Firmware on Windows

Learn to update the firmware of your camera on a Windows computer.



Support by Sony mobile app

Want to be notified once a brand new firmware update is available?

Just bookmark your product on the app!



Release Date

ILCE-7SM3 System Software (Firmware) Update Ver. 2.10 (Windows)

13/06/2022



ILCE-7SM3 System Software (Firmware) Update Ver. 2.10 (Mac)

13/06/2022



ILCE-7SM3 System Software (Firmware) Update Ver. 2.10 (Windows)

Allows proxy recording during a remote computer connection

[Download](#)

Applicable Model

This information is for the following models:

- ILCE-7SM3

About this download

Benefits and Improvements

- Allows proxy recording during a remote computer connection
- Improves the accuracy of the Eye AF feature
- Improves the stability of the custom white balance
- Improves eye sensor detection performance with strong light sources, such as sunlight
- Improves the operational stability of the camera

Previous Benefits and Improvements

[View previous benefits and improvements](#)

③ The A7SIII model must be upgraded via a computer, while other models can be upgraded by SD card .

Chapter 5 Solutions to some problems in use

1. When a smartphone, tablet, or camera can detect a Wi-Fi signal but fails to connect for a long time or encounters a connection error.

Solution: Press the [Reset] button on the Wireless Tethering Hub for Cameras for approximately 10 seconds to restore it to factory settings, then reconnect to Wi-Fi.

(Note: Sony cameras can directly open the official camera App for use after connecting to Wi-Fi. There is no need to access the network configuration page or configure any parameters.)



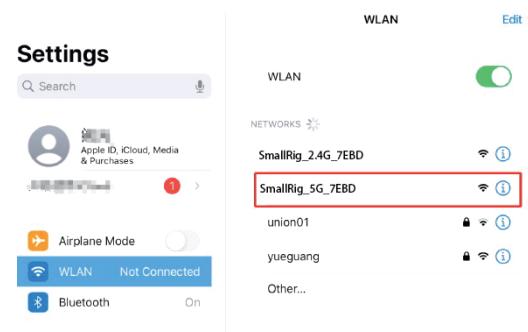
- II. After connecting the power cable, the Wireless Tethering Hub for Cameras has an unlit indicator light and does not function.

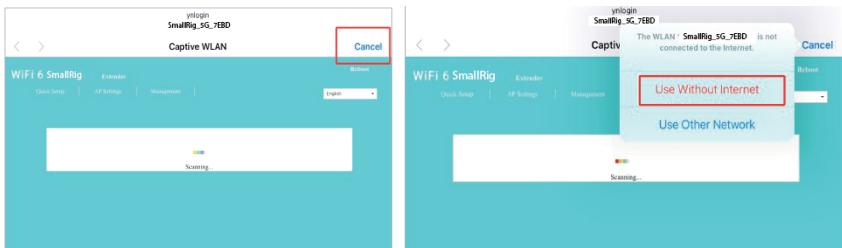
Solution:

1. Check if the battery has power.
2. Check the power cable for damage or replace it with a new one.

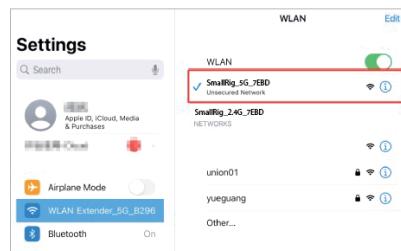
2. Tips for using Apple device

1. After confirming the Wireless Tethering Hub for Cameras is turned on, open the Wi-Fi settings page on your smartphone or tablet, search for the Hub's Wi-Fi [SmallRig_5G_****], tap [Connect], and the password setup page will appear. Follow the same password setup method as mentioned above.





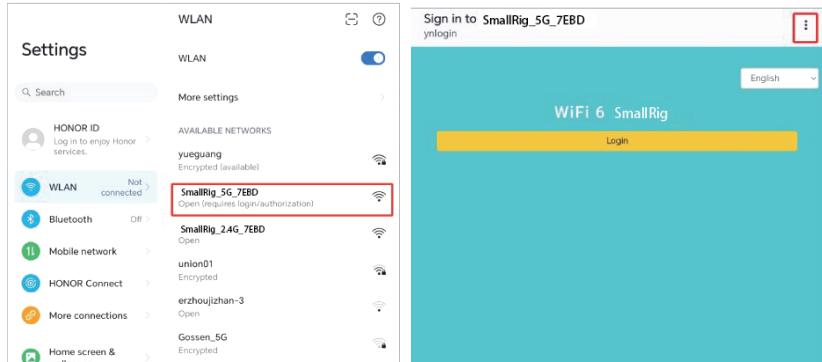
2. After connecting to the Hub's Wi-Fi [SmallRig_5G_***], the network configuration page will pop up automatically. At this point, tap the [Cancel] button in the upper right corner and select [Use Without Internet Connection].

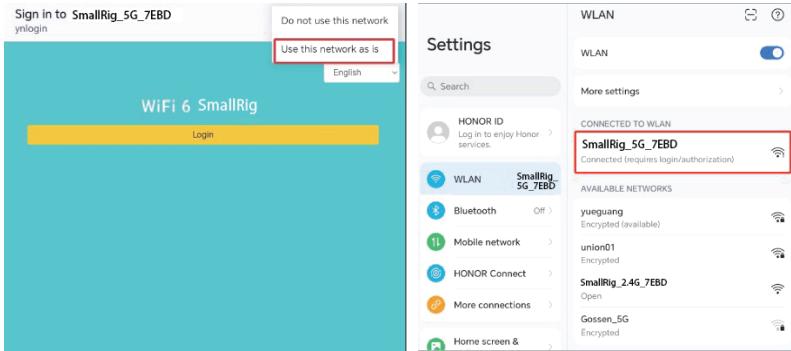


3. When a \checkmark appears before the WiFi name, it means the network connection is successful. (It shows an unsecured network because there is no password, don't worry)

4. Tips for using Android devices

After confirming the Wireless Tethering Hub for Cameras is turned on, open the Wi-Fi settings page on your smartphone or tablet, search for the Hub's Wi-Fi [SmallRig_5G_***], tap [Connect], and the password setup page will appear. See previous instructions.





After connecting to the Hub's Wi-Fi [SmallRig_5G_****], the login page will pop up automatically. At this point, tap the icon in the upper right corner and select [Use This Network Directly]. If no relevant content is displayed, simply return to the Wi-Fi connection page. A [Connected] label next to the Wi-Fi name indicates a successful connection.

Chapter 6 Specifications

Item/sub item		Contents
Name		Wireless Tethering Hub for Cameras
Model		WTH 500
Functions	Control method	A device that can remotely control camera shooting via a mobile phone or tablet within a range of 500m in unobstructed or slightly obstructed situations.
	Shooting function	Camera App control the camera to shoot
	App	Manufacturer's App
	Compatible model	Mirrorless Cameras A1, A9III, A7SIII, A7RV, A7MIV, A7CR, A7CII, ZV-E1, A6700, FX3, FX30
Communication	Communication distance	The maximum communication distance between the camera and the WTH500 is less than 90m, with no obstruction or slight obstruction.
		The maximum communication distance between a mobile phone or tablet and the WTH500 is <310m, with no obstruction or slight obstruction.
		Different remote control distance for different models and environments.
	Antenna	Built-in 2 high-gain antennas
Communication	Wi-Fi standard	1201 Mbps (5 GHz, 11ax) + 574 Mbps (2.4 GHz, 11ax), Compatible to IEEE802.11B /G/N/AC/AX Wi-Fi standard
	Frequency	2.4 GHz and 5.0 GHz
	Transmit power	FCC: <18 dBm(2.4GHz), <18 dBm(5GHz)
Hardware	Signal rate	2.4GHz 574 Mbps, 5GHz 1201 Mbps
	Dimension	95*95*27mm
	Network	152g
Certification	Input voltage	5V3A
		Passes the FCC, CE, SRRC, RoHS test
	Operating temperature	0°C~40°C (32°F~104°F)
	Storage temperature	-40°C~70°C (-40°F~158°F)
	Operating humidity	10%~90%non-condensing
Ambient temperature and humidity	Storage humidity	5%~90%non-condensing

Product usage precautions

1. Do not change the transmission power without authorization, increase the transmission power (including installing an additional RF power amplifier), or connect an external antenna or use other transmission antennas privately;
2. Do not cause harmful interference to various legal radio communication services during use. Once interference is found, stop using it immediately and take measures to eliminate the interference before continuing to use it;
3. Do not use it near airplanes and airports. Please comply with national laws and regulations when using communication equipment.