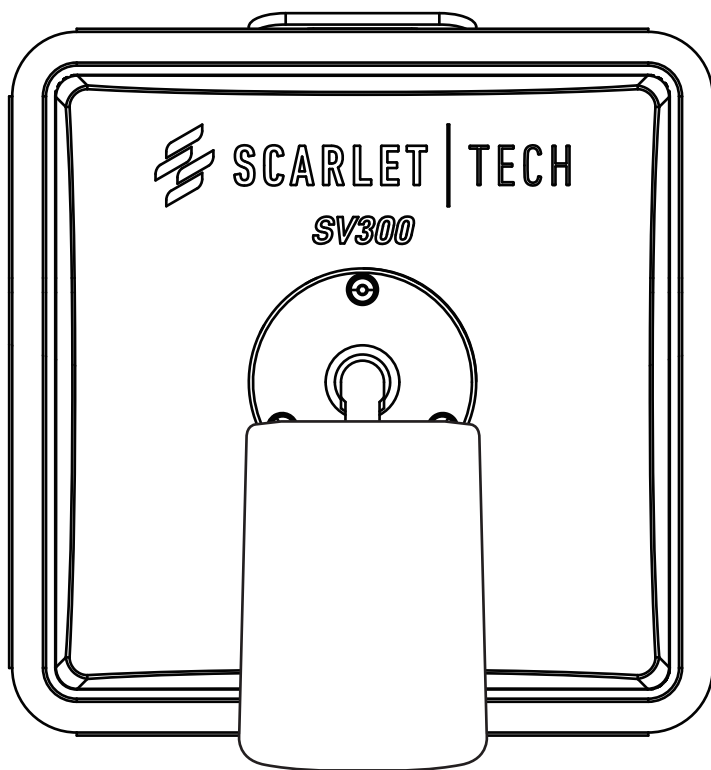




SCARLET | TECH



SV300

Wireless Crane Cameras

User Guide

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1. Package Content

- 1. SV300 Wireless Camera
- 2. Streambox
- 3. Tablet
- 4. SV300 Antenna (White, N-type) x 2pcs
- 5. SV300 Charger (Waterproof 3-pin Connector)
- 6. SV300 Wireless Camera Remote Key Fob
- 7. Streambox Antenna (Black, SMA) x 2pcs
- 8. Streambox Power Cord (Cigarette Lighter plug)
- 9. Tablet Charging Cable (USB C to USB A)
- 10. Tablet Holder
- 11. Magnetic Cable Collector x 2pcs
- 12. Safety Lanyard

■ Hook Block

Camera:	Installation:	Power:
(1)	(11)	(5)
(4)	(12)	(6)
		
		

■ Crane Cabin

Streambox:	Tablet:
(2)	(3)
(7)	(9)
(8)	(10)
	
	
	

2. IP & SSID List

SN	
(a) SV300 Camera IP Address	
(b) Streambox Wi-Fi SSID	
(c) Tablet IP Address	
(d) Tablet Wi-Fi SSID	

Before referring to the IP and SSID on this page, verify that the device S/N matches the S/N shown here. If the S/N cannot be confirmed, refer to the IP and SSID printed on the device label.



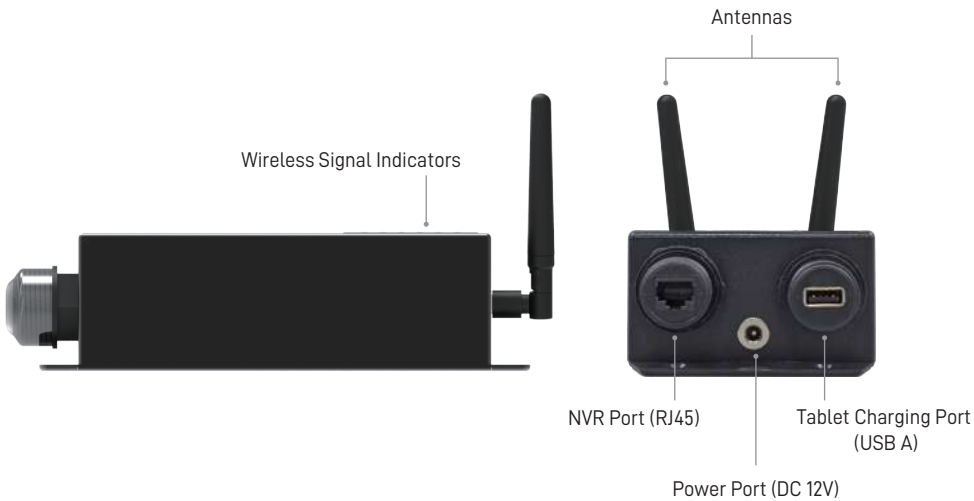
3. Product Specification

3.1 SV300 Wireless Camera



Camera	Image Sensor	Sony 1/2.8" CMOS
	Electronic Shutter	1/25s - 1/100,000s
	Lens	2.8mm
	AOV	105°
	Resolution & Pixels	2K QHD 2560 x 1440, 3.7MP
	Night Vision	Starlight technology
	Recording	Yes, 256GB (7 days)
	MIC	Yes
Battery	Type	LiNiCoMnO2
	Capacity	288Wh
	Battery Life	40hrs
	Charging Time	10hrs
	Power Input	DC 16.8V / 4A (Charger/ External Power Pack)
Wireless Technology	Video Streaming	Wi-Fi 802.11 a/n/ac
	Antenna	Omnidirectional 5GHz x2
	Frequency range	5180~5240MHz
	Max EIRP	20dBm
Others	Dimension	Camera: 152 (L) x 65 (Ø)
		AP/Battery: 230 (L) x 230 (W) x 78.5 mm (H)
	Weight	2.7kg
	I/O Port	RJ45 port x1, 3-pin power jack x1, N-type connector x2
	LED Indicator	Wireless status x6, Camera status x1, Battery status x5
	Button	Battery power on/off x1

3.2 Streambox



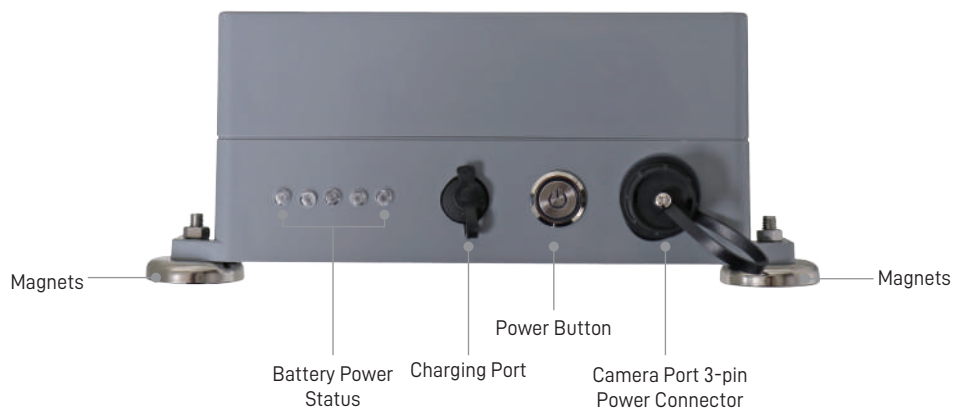
Dimension	150 x 100 x 48 mm
Weight	0.5kg
Wireless Technology	Wi-Fi 5GHz
Antenna	Omnidirectional 5GHz x2
I/O port	RJ45 port x1, USB Type A port x1, Power Jack x1
LED Indicator	Power status x1, LAN connection status x1, Signal strength x4
Power Supply	DC 12V
Waterproof	IP65

3.3 Tablet



Dimension	250(L) x 165 (W) x 18 (H) mm
Weight	0.5kg
OS	Android 12
Display	10.1" IPS Touch Screen
Resolution	1920 x 1200
Wireless Connectivity	Wi-Fi 802.11 a/b/g/n/ac
CPU	Octa-core processors
Memory	4G DDR
Power Supply	DC 5V

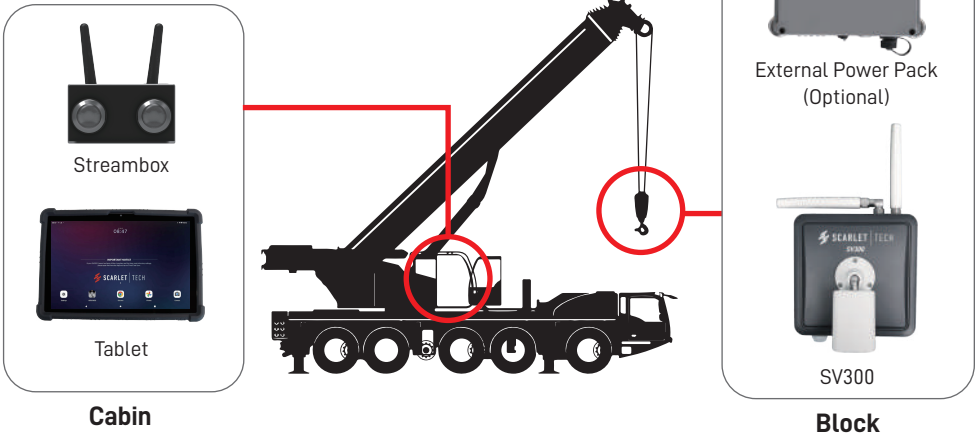
3.4 External Power Pack (Optional)



Dimension	201 x 123 x 80mm
Weight	1.6kg
Type	LiNiCoMnO2
Capacity	288Wh (14.4V/12AH)
Battery Life	40hrs
Charging Time	10hrs
Power Input	16.8V / 4A (Charger)
I/O port	3-pin power jack x1
LED Indicator	Power Status x5
Waterproof	IP67
Installation	Mounting by magnets
Operation Temperature	-10 ~ +60°C

4. Installation

4.1 Placement



IMPORTANT!
SV300 system's "Default" settings differ from the manufacturer presets. Adjusting Camera, Tablet, or Streambox settings without Scarlet's assistance may disrupt device connectivity.

- SV300's high-gain transceiver is designed for outdoor, long-range use. Avoid using it indoors or in closed-range environments to prevent wireless interference.
- Position Camera and Streambox in a clear line of sight and minimize wireless interference sources nearby.
- Place the monitor fixed within the operator's cabin, next to the Streambox.
- Check the wireless status indicators of SV300 and Streambox for green lights on PWR, LAN, and S3/S4.
- Before turning on the SV300 Wireless Camera or connecting the Streambox to power, make sure both devices have their antennas attached.

 PWR  LAN  S1  S2  S3  S4	LED Indicator	Description	Definition
	PWR	Power status of SV300 AP/Streambox	OFF: No power Steady Green: Power ON
	LAN	Data transmission status of RJ45 configuration port Wireless signal strength between	OFF: No data transmission Flashing Green: Data transmission on-going
	S1, S2, S3 & S4	SV300 AP and Streambox	OFF: No signal S1 Steady Green: Very Poor S2 Steady Green: Poor S3 Steady Green: Normal S4 Steady Green: Good

4.2 SV300 Wireless Camera

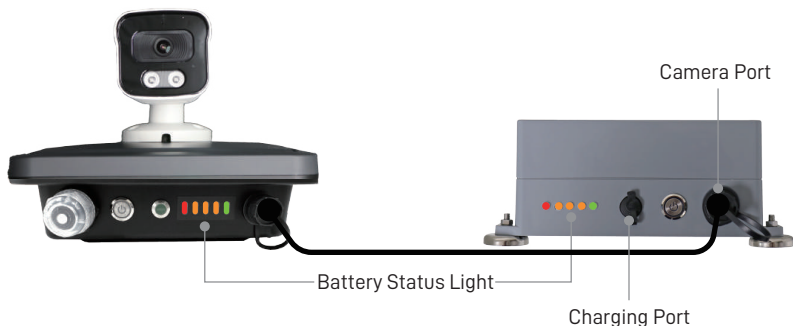
1. Attach white omnidirectional antennas on the Camera's N-type antenna port and right-angled antenna port
2. To adjust the camera angle, first loosen the hex bolt then tighten it back after making adjustment.



3. Attach SV300 Camera to clean, flat surface on the crane hook with the magnetic back mounts
4. After positioning the camera in the ideal location, securely fasten its anchor point using the safety lanyard
5. Press the power button to turn on the Camera.

4.3 External Battery Pack

To extend the work time of the SV300 Camera, you have the option to connect it to an external battery pack through its charging port and easily swap it out for recharging.



4.4 Battery Status

Battery Status Lights show the power level of the device, with each light representing 20% increments. A full charge takes 10-12 hours. Use only the original SV300 charging set to prevent battery issues.

LED Color	Battery Life	Definition
Green	80 ~ 100%	Full charged
Orange	20~ 80%	Moderate
Red	< 20%	Battery low, charging required
off	0%	No Power, Power OFF

4.5 Camera Remote

Using the key fob, you can remotely turn ON/OFF the SV300 Wireless Camera to prolong its operating time and decrease the need for frequent power charging

Note: Before using remote key fob, please make sure the power button of SV300 Wireless Camera is pressed to show the green light.

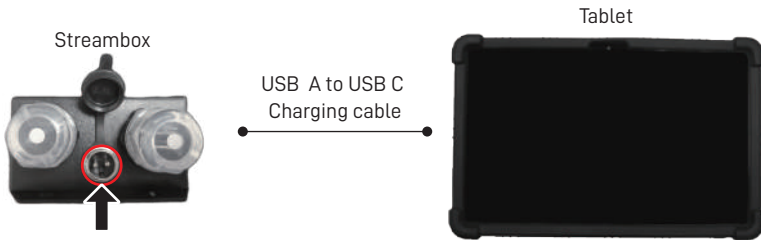


4.6 Streambox & Tablet

1. Attach two black antennas to the SMA port, pointing them skyward.
2. Ensure Streambox and SV300 are positioned with an unobstructed line of sight.



3. Connect Streambox to the 12V power supply in the cabin using the power cord with cigarette lighter plug.
4. Connect Tablet to Streambox by using USB charging cable.



5. Place Tablet in a fixed position within the operator's cabin, adjacent to the Streambox.
6. Allow a few minutes for the image signal to stabilize

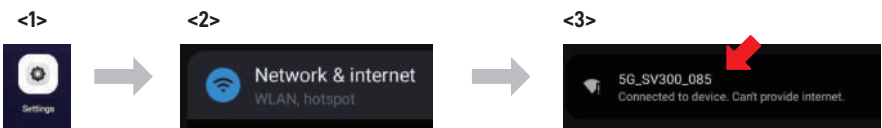
5. Tablet Settings

IMPORTANT!
DO NOT altering settings other than those specified below. Any deviation from the factory presets may adversely affect the system's performance and wireless connectivity.

5.1 Wireless Connection

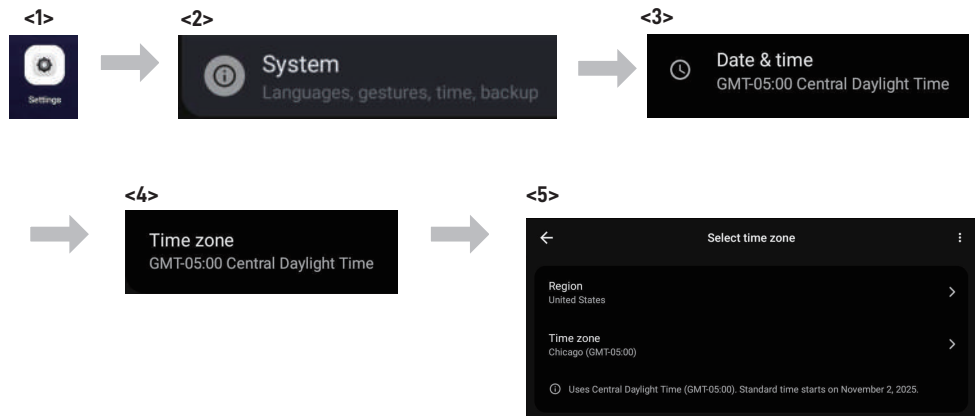
Swipe up -> Select "SETTINGS" icon -> Go to "Network & Internet"

Once the SSID "5G_SV300_XXX" (XXX=001~999) is connected, the tablet can receive the video streaming from the SV300 Wireless Camera. Verify that the Wi-Fi status displays: "Connected to device. Can't provide internet." (For the SSID, refer to item (d) Tablet Wi-Fi SSID in the IP & SSID List on page 3 of the User Guide.)



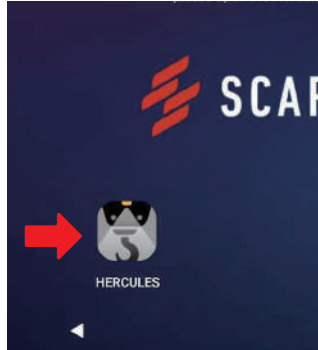
5.2 Date & Time

Set the date and time of monior to your local time before using HERCULES APP:
Swipe up -> Select "SETTINGS" icon -> Go to "SYSTEM" -> Set your local time in "DATE & TIME".



5.3 Account Login

Account	Password
admin	1234
Operator	1234



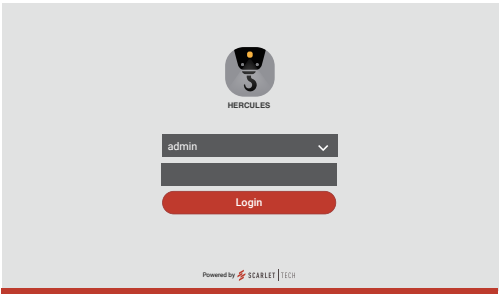
5.4 Connect the Streambox and Tablet via Ethernet Cable

1. Connect the tablet and Streambox using an Ethernet cable.

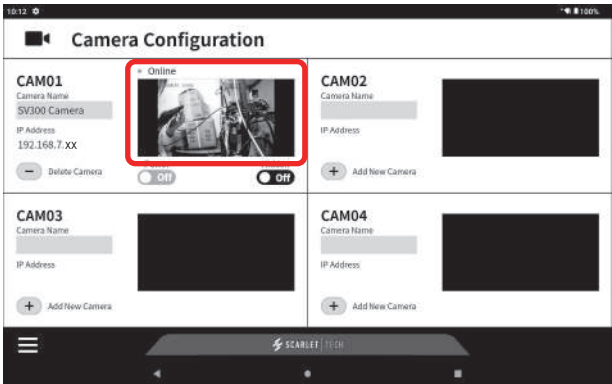


2. Open the Hercules APP and log in with your account credentials.

Account	Password
admin	1234
Operator	1234

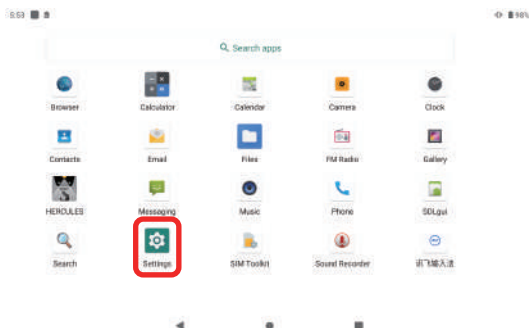


3. After a short moment, the camera status will turn green, displaying "Online," and the live camera view will appear under Camera Configuration.

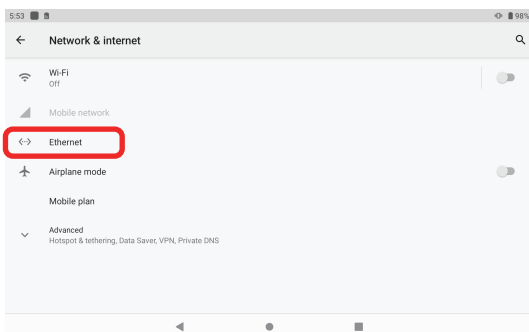


5.5 Tablet Ethernet Settings

1. Swipe up on the tablet screen to open the app list, then tap Settings.



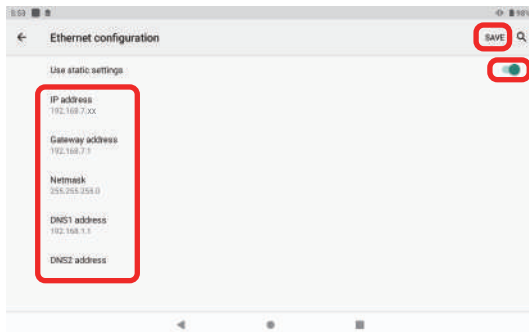
2. Select Network & internet, then choose Ethernet and tap Ethernet Configuration.



3. Enable Use static setting, and fill in the following fields with the corresponding information:

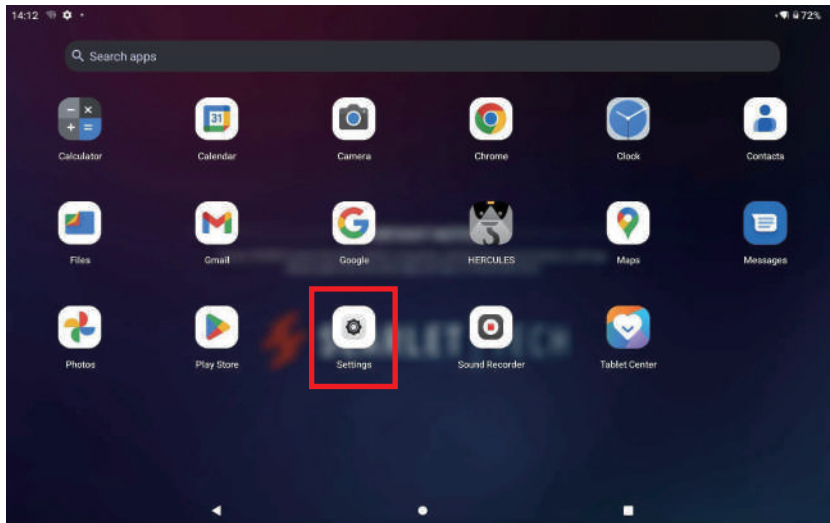
- IP Address: 192.168.7.XXX (The specific IP address is labeled on the tablet, or refer to item (c) Tablet IP Address in the IP & SSID List on page 3 of the User Guide.)
- Gateway address: 192.168.7.1
- Netmask: 255.255.255.0
- DNS1 address: 192.168.1.1

Tap SAVE at the top right corner to complete the Ethernet configuration.

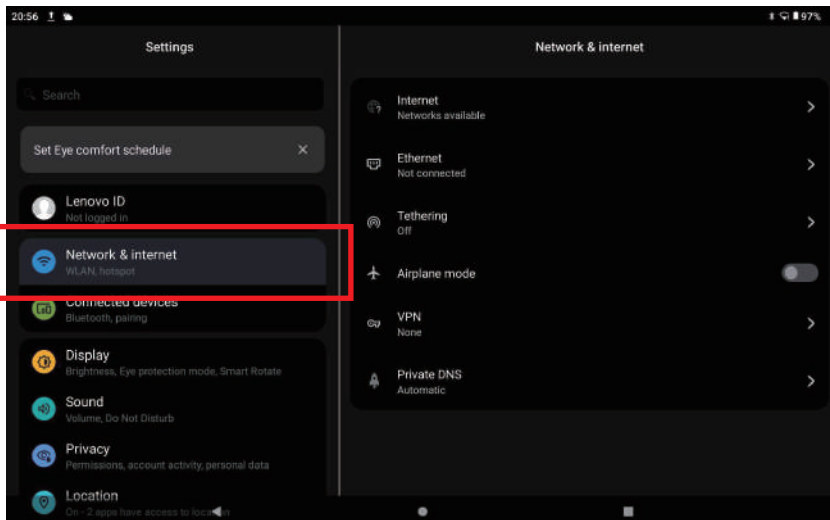


6. Tablet Wi-Fi Connection Set-up

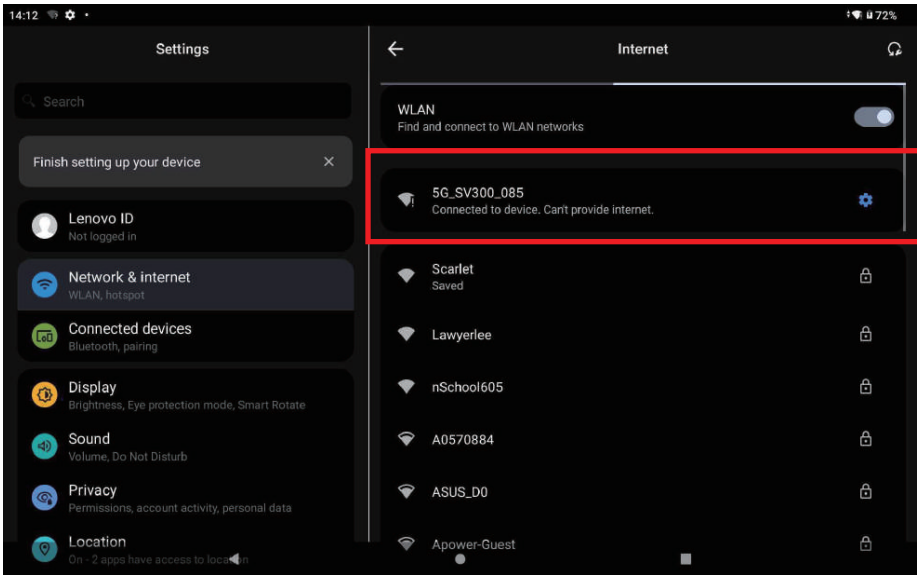
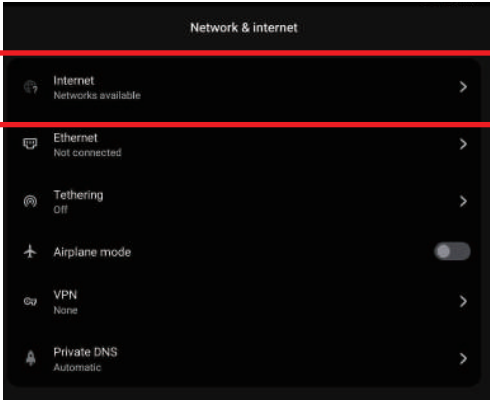
1. Swipe up on the Tablet screen to access the APP list.
2. Tap "Settings".



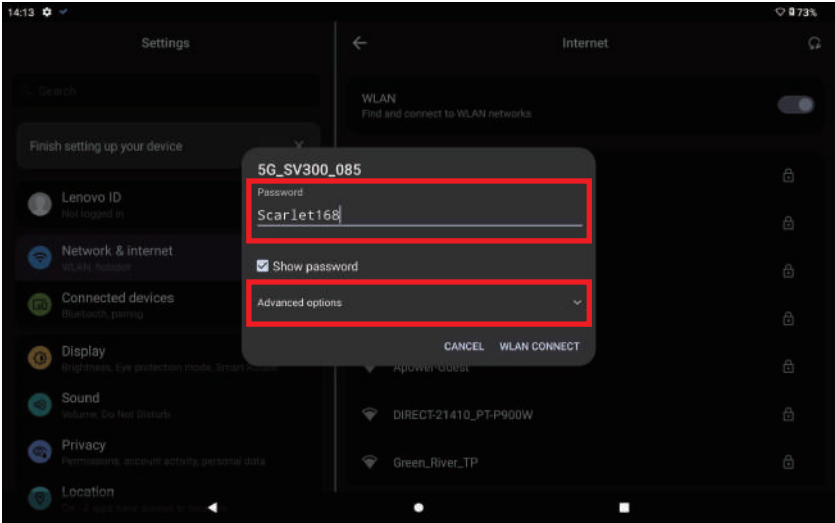
3. Select "Network & Internet."



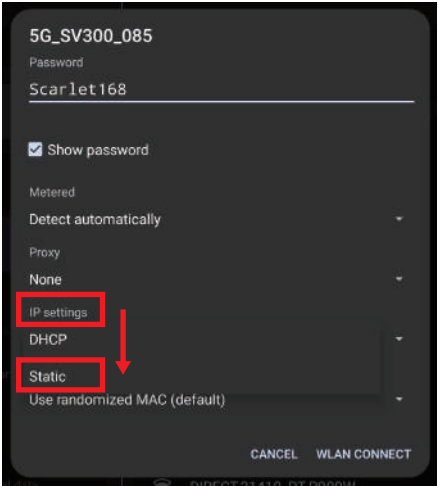
4. Tap "Internet", then select the network SSID "5G_SV300_XXX" from the list. The specific SSID is labeled on the Streambox or on the tablet, and it can also be found under item (d) Tablet Wi-Fi SSID in the IP & SSID List on page 3 of the User Guide.



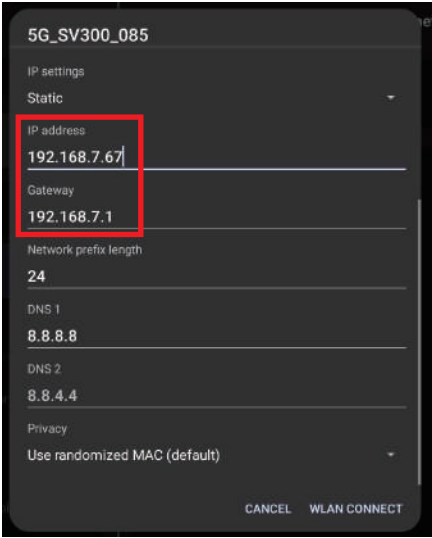
5. Enter Wi-Fi password "Scarlet168". Tap "Advanced options" on the dialog box.



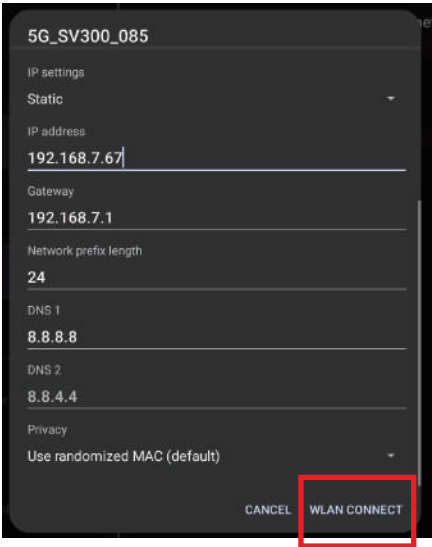
6. Under "IP settings", select "Static"



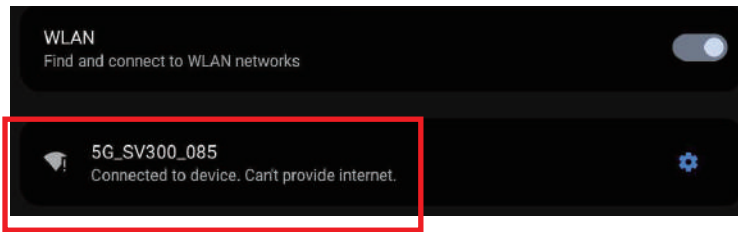
7. Enter the IP address "192.168.7.XXX". The specific IP address is labeled on the tablet, or refer to item (c) Tablet IP Address in the IP & SSID List on page 3 of the User Guide. Enter the Gateway as "192.168.7.1". All Gateway addresses are identical.



8. Tap "WLAN CONNECT".

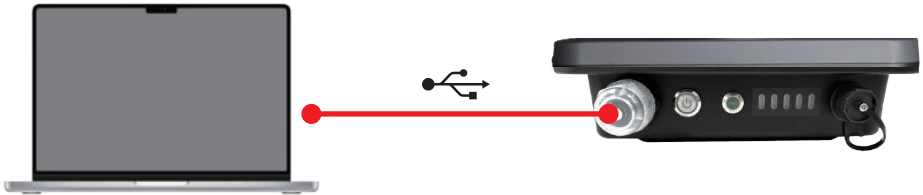


9. Wi-Fi status under "5G_SV300_XXX" show **"Connected to device. Can't provide internet."** Tablet is now connected to SV300's internal wireless network, enabling you to stream live camera footage through the "HECULES" app.

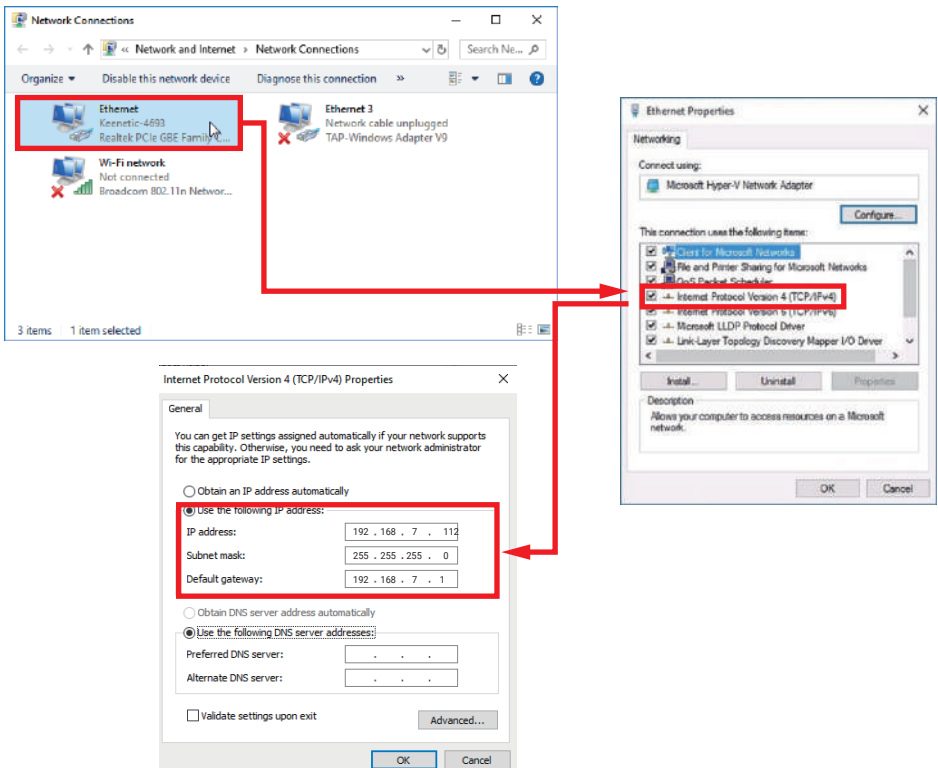


7. Camera Playback

1. Prepare a LAN cable and a Windows PC/laptop with an RJ45 port to proceed with the following steps.
2. Press the power button to turn on the SV300 Wireless Camera.
3. Use the LAN cable to connect the SV300 Wireless Camera and PC.



4. Manually set the IP address for your PC or laptop to connect the SV300 Wireless Camera:
 - a. PC/laptop IP address: 192.168.XXX.XXX (e.g. 192.168.7.112)
 - b. Subnet Mask: 255.255.255.0
 - c. Gateway: 192.168.XXX.1 (e.g. 192.168.7.1)

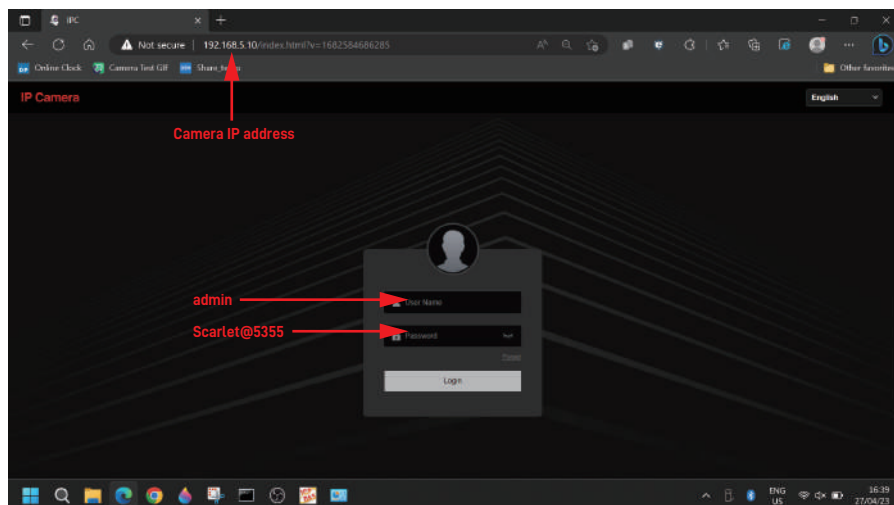


5. Launch Chrome or Edge browser. Input the IP address of your SV300 Wireless Camera, and then input the camera account "admin" and password "Scarlet@5355" to login camera. (For the Camera IP address, refer to item (a) SV300 Camera IP Address in the IP & SSID List on page 3 of the User Guide.)

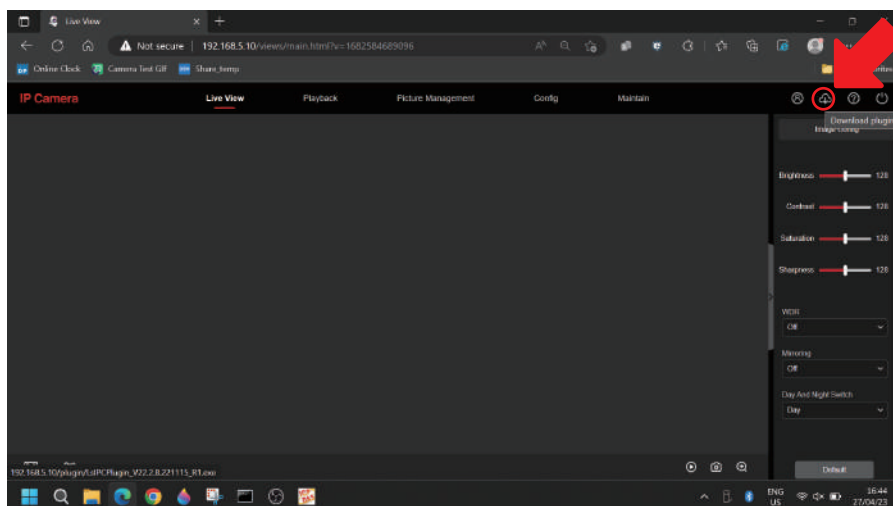
6. Default login info

Account: admin

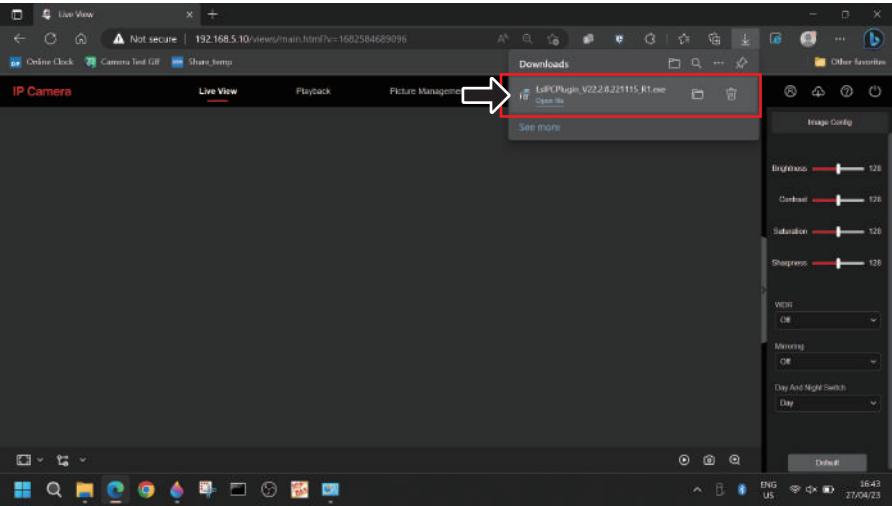
Password: Scarlet@5355



7. Select the "Download plugin" to download plugin file if you visit this page first time.

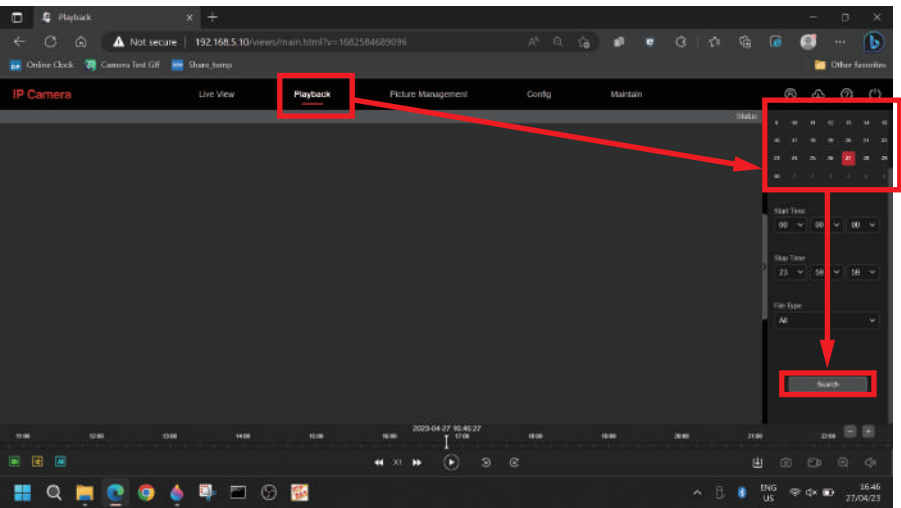


8. Open this file to install this plugin file on your PC or laptop.

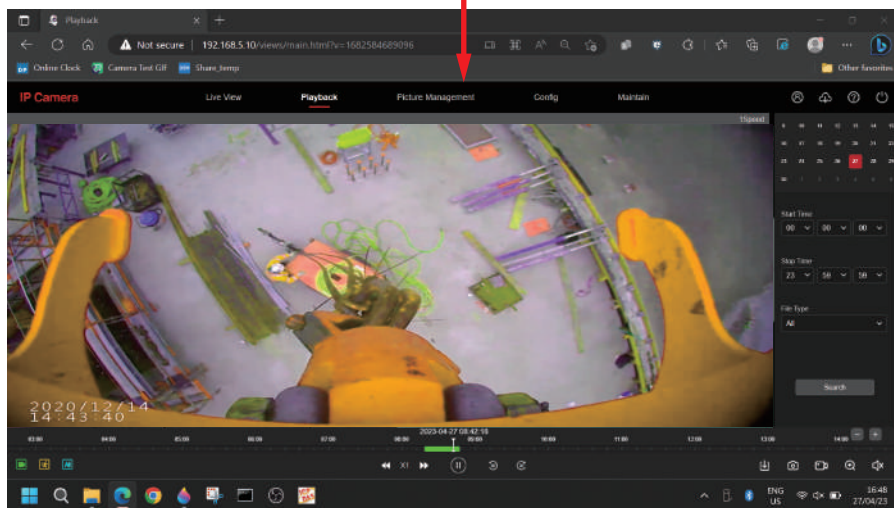
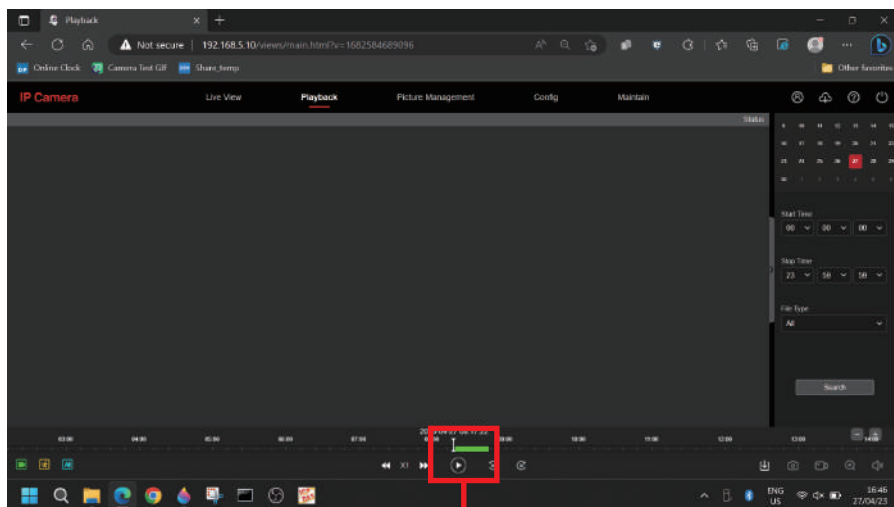


9. After installation process, launch the browser to login the SV300 Wireless Camera again.

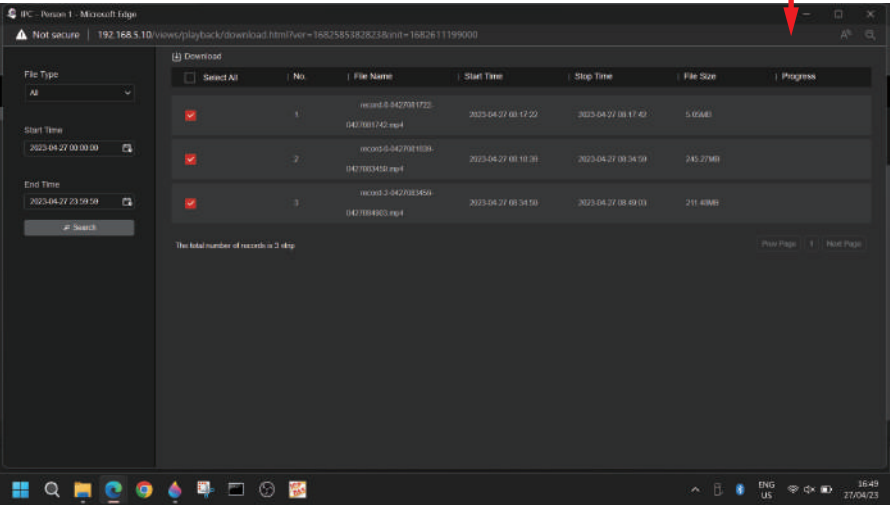
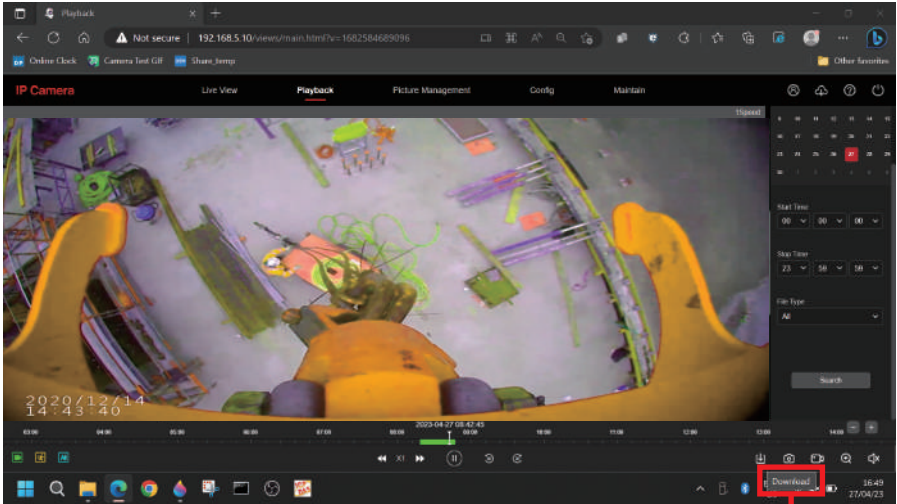
10. Select the page "Playback", select the date and then click the search icon.



11. The green time bar with the video recording will appear at the bottom screen.
12. Press "Play" to watch the recorded video.



13. Press "Download" to download the recording in MP4 file



8. Warranty & Services

Warranty Conditions

This instrument is guaranteed for one-year warranty against material or production defects, in accordance with our general sales conditions. During the warranty period the manufacturer reserves the right to decide either to repair or replace the product.

Should you need any reason to return the instrument for repair or replacement, take prior agreements with the local distributor from whom you bought it. Do not forget to enclose a report describing the reasons for returning (detected fault). Use original packaging. Any damage occurred in transit due to non-original packaging will be charged anyhow to customer.

The Warranty does NOT apply to:

- Accessories and batteries (not covered by warranty)
- Repairs made necessary by improper use or improper combination with incompatible accessories or equipment.
- Repairs made necessary by improper shipping material causing damages in transit.
- Repairs made necessary by previous attempts for repair carried out by non-skilled or unauthorized personnel.
- Instruments for whatever reason modified by the customer himself without explicit authorization of our Technical Dept.

The contents of this manual may not be reproduced in any form whatsoever without the manufacturer's authorization.

Our products are patented. The logotypes are registered. We reserve the right to modify characteristics and prices as part of technological developments which might require them.

Services

Should you find the instrument not work properly, before contacting your distributor make sure that batteries are correctly installed, fully charged and working.

FCC Information:

SV300 Camera (Model: STSV9H01, FCC ID: 2A2MWSTSV300) complies with FCC Part 15E. The device operates in the 5180-5240 MHz frequency band with a maximum conducted output power of 0.259 W(259 mW).

CE (RED) Information :

SV300 Camera (Model: STCSV9H01) complies with RED Directive 2014/53/EU and TSI EN 301 489-1 V2.2.3 (2019-11) and ETSI EN 301 489-17 V3.2.4 (2020-09). The device operates in the 5180-5240 MHz frequency band with a maximum RF output power of 20 dBm.



Scarlet Tech Co., Ltd.

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