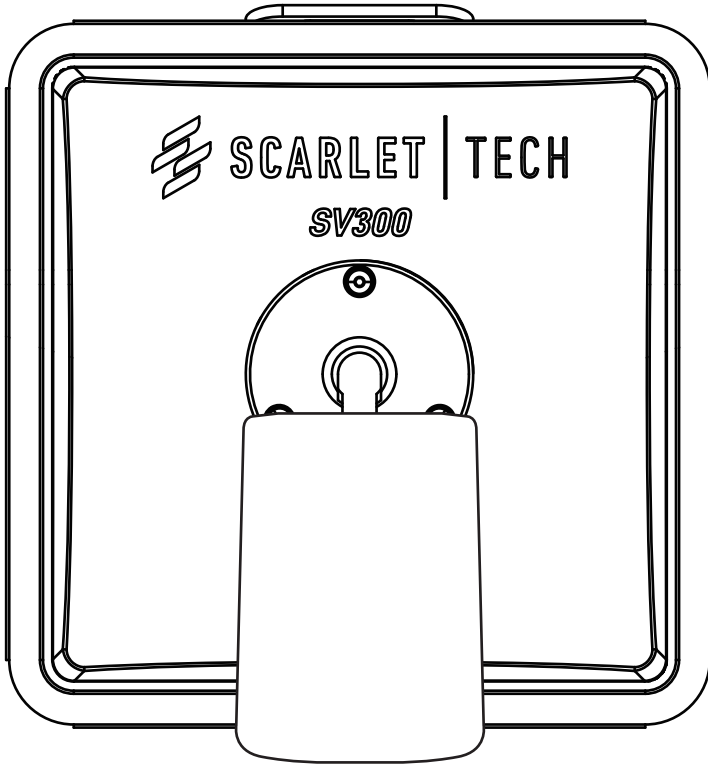




SCARLET | TECH



# SV300

Wireless Crane Cameras

**User Guide**

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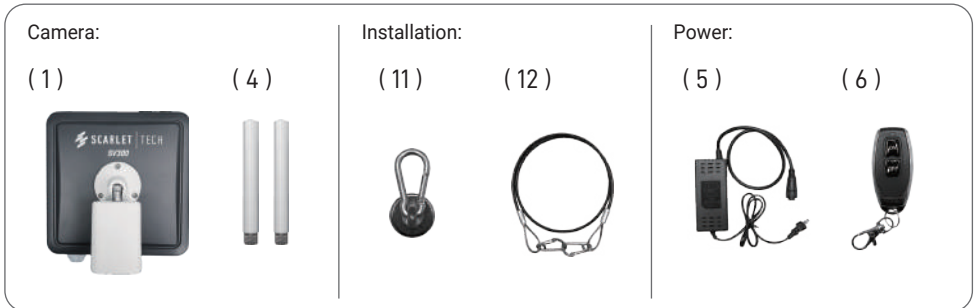
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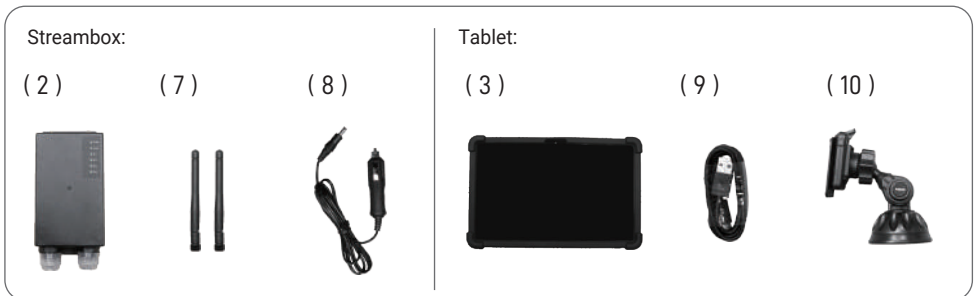
# 1. Package Content

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



## CRANE CABIN



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## 2. Product Specification

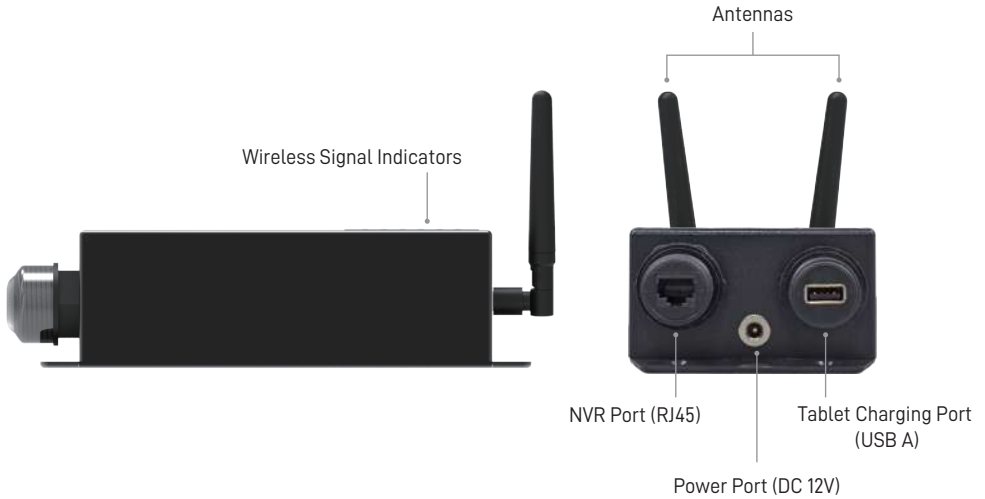
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### 2.1 SV300 Wireless Camera



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

## 2.2 Streambox



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

## 2.3 Tablet



<b>Dimension</b>	250 (L) x 155 (W) x 8(H) mm
<b>Weight</b>	0.5kg
<b>OS</b>	Android 12
<b>Display</b>	10.37" IPS Touch Screen
<b>Resolution</b>	2000 x 1200
<b>Wireless Connectivity</b>	Wi-Fi 802.11 a/b/g/n/ac
<b>CPU</b>	Octa-core processors
<b>Memory</b>	4G DDR
<b>Power Supply</b>	DC 5V (USB C via Streambox)

## 2.4 External Power Pack (Optional)

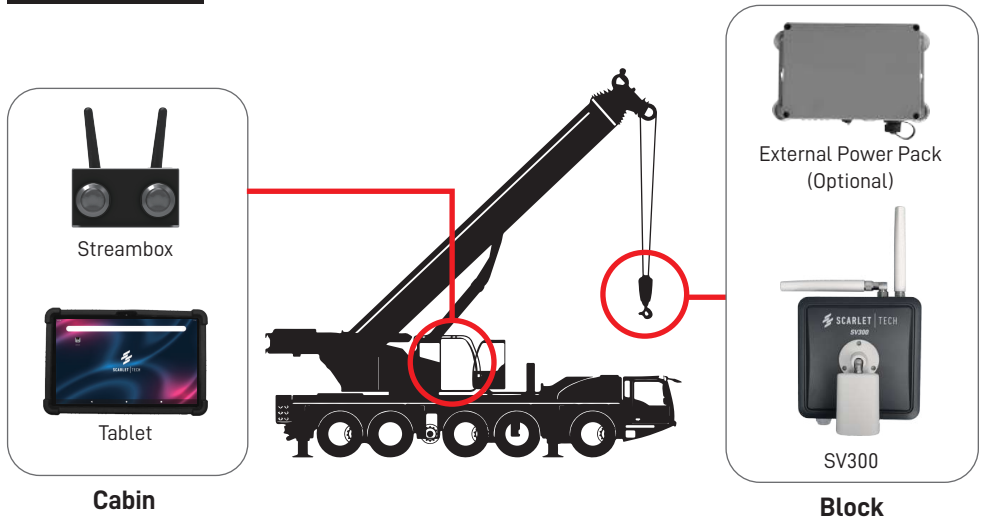


<b>Dimension</b>	201 x 123 x 80mm
<b>Weight</b>	1.6kg
<b>Type</b>	LiNiCoMnO2
<b>Capacity</b>	288Wh (14.4V/12AH)
<b>Battery Life</b>	40hrs
<b>Charging Time</b>	10hrs
<b>Power Input</b>	16.8V / 4A (Charger)
<b>I/O port</b>	3-pin power jack x1
<b>LED Indicator</b>	Power Status x5
<b>Waterproof</b>	IP67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



# 3. Installation

## 3.1 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 S3/54.

LED Indicator	Description	Definition
<span style="color: green;">●</span> PWR		
<span style="color: grey;">●</span> LAN		
<span style="color: grey;">●</span> S1		
<span style="color: grey;">●</span> S2		
<span style="color: grey;">●</span> S3		
<span style="color: grey;">●</span> S4		
<b>PWR</b>	Power status of SV300 AP/Streambox	OFF: No power Steady Green: Power ON
<b>LAN</b>	Data transmission status of RJ45 configuration port Wireless signal strength between	OFF: No data transmission Flashing Green: Data transmission on-going
<b>S1, S2, S3 &amp; S4</b>	SV300 AP and Streambox	OFF: No signal S1 Steady Green: Very Poor S2 Steady Green: Poor S3 Steady Green: Normal S4 Steady Green: Good

### 3.2 SV300 Wireless Camera

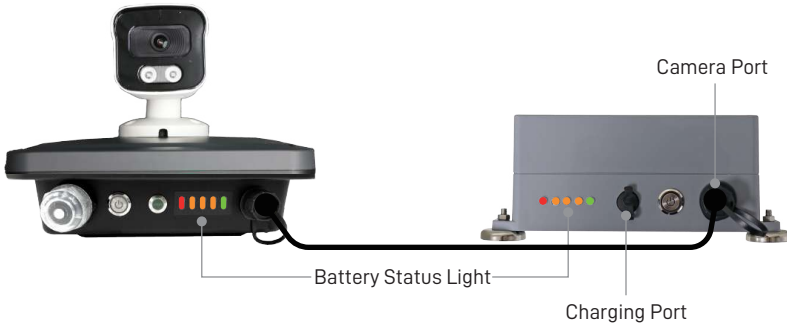
1. Attach white omnidirectional antennas on the Camera's N-type antenna port and right-angled antenna port
2. To adjust the camera angle, first loosen the hex bolt then tighten it back after making adjustment.



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.

### 3.3 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.



### 3.4 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

### 3.5 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.*

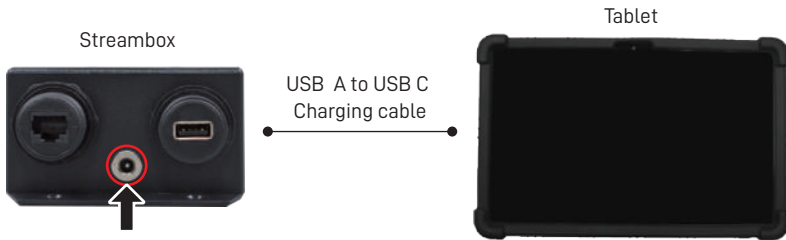


### 3.6 Streambox & Tablet

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.



Connect to cigarette lighter connector of cabin

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

# 4. Tablet Settings

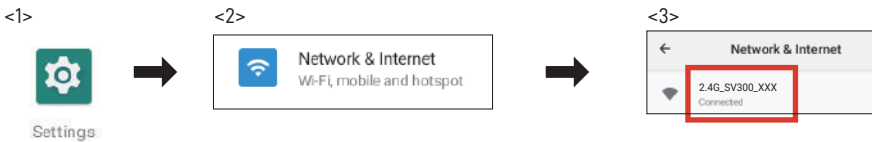
## IMPORTANT!

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.

### 4.1 Wireless Connection

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

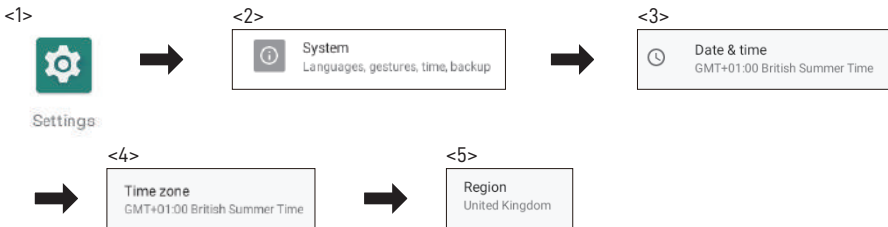
Once the SSID "5G\_SV300\_XXX" (XXX=001~999) is connected, the tablet can receive the video streaming from the SV300 Wireless Camera



### 4.2 Date & Time

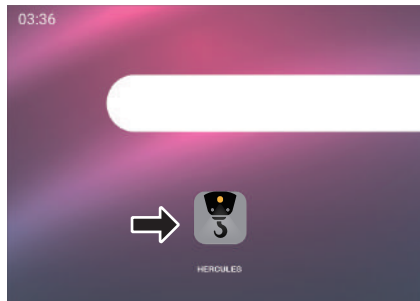
Set the date and time of monitor to your local time before using HERCULES APP:

Swipe up -> Select "SETTINGS" icon -> Go to "SYSTEM" -> Set your local time in "DATE & TIME".



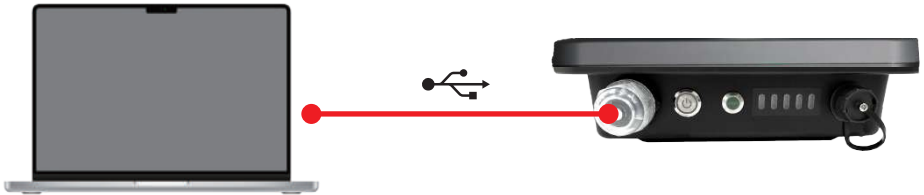
### 4.3 Account Login

Account	Password
Admin	1234
Operator	1234

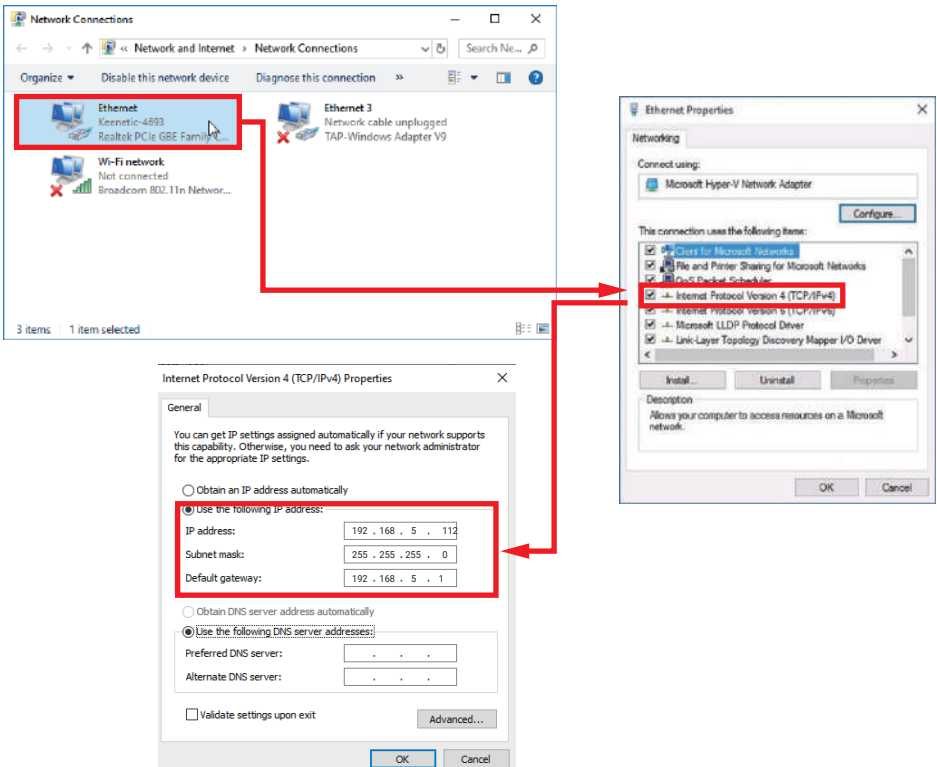


# 5. Camera Playback

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. 192.168.5.112)
  - b. Subnet Mask: 255.255.255.0
  - c. Gateway: 192.168.XXX.1 (e.g. 192.168.5.1)

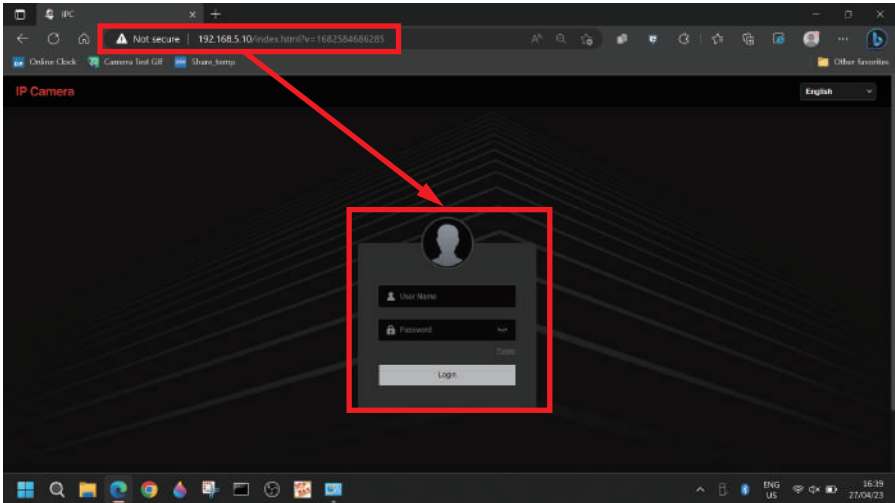


5. Launch Chrome or Edge browser. Input the IP address of your SV300 Wireless Camera, and then input the camera account "admin" and password "Scarlet@5355" to login camera.

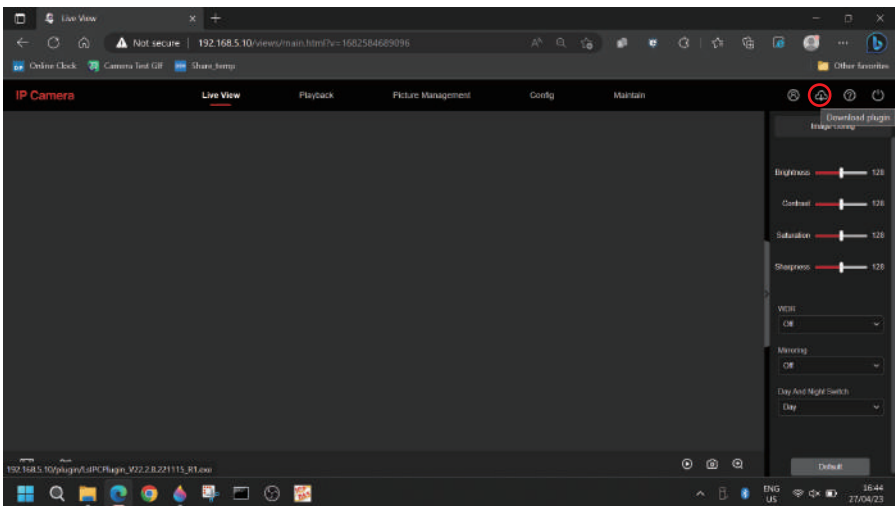
6. Default login info

**Account: admin**

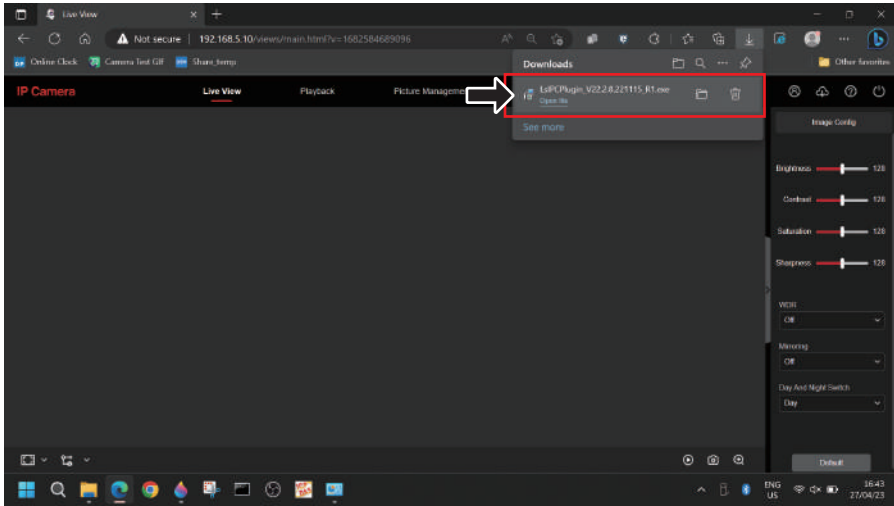
**Password: Scarlet@5355**



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

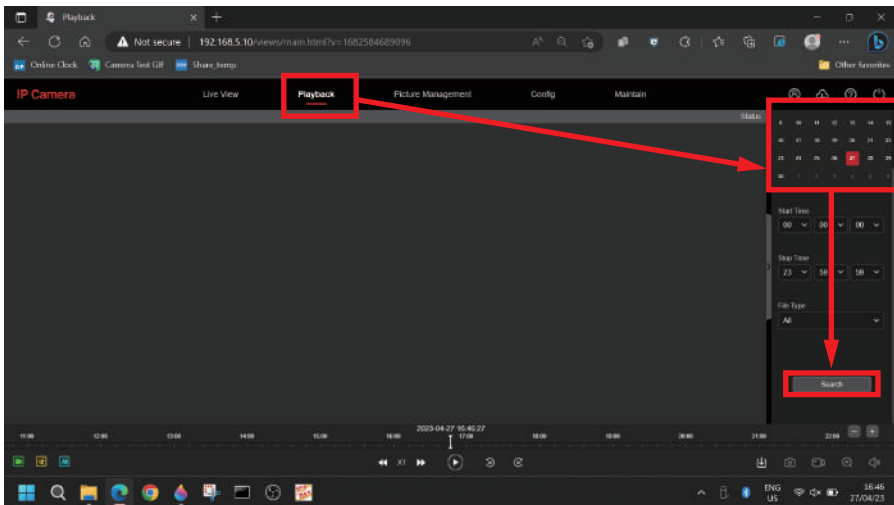


8. Open this file to install this plugin file on your PC or laptop.



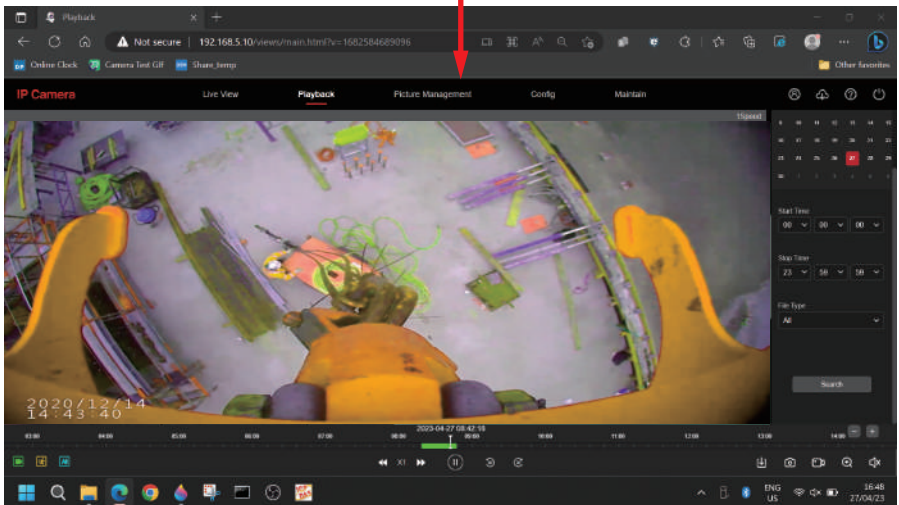
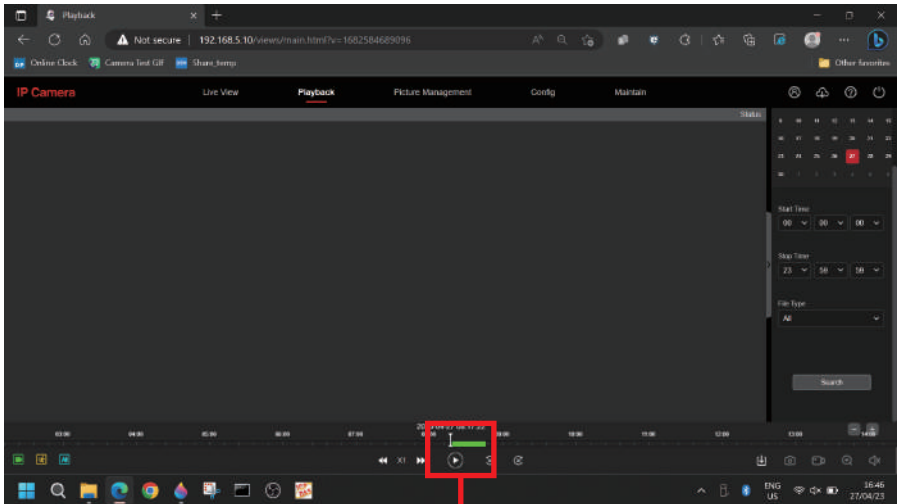
9. After installation process, launch the browser to login the SV300 Wireless Camera again.

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

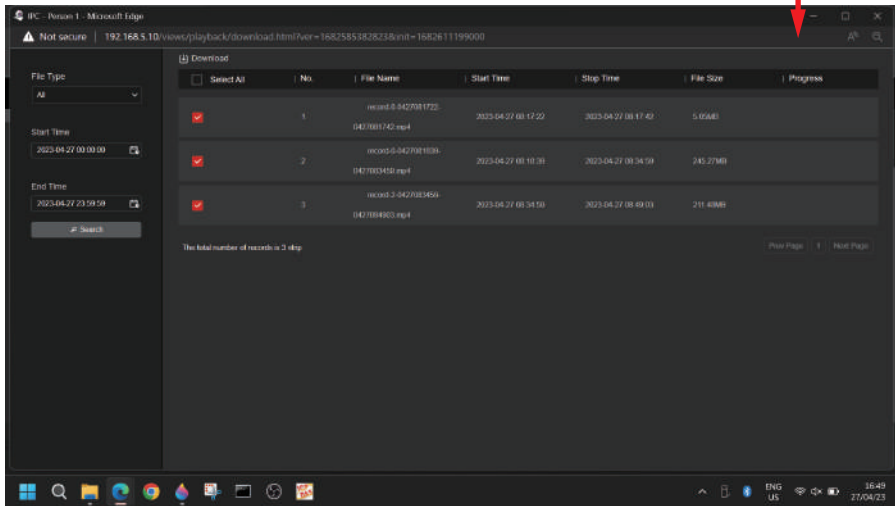
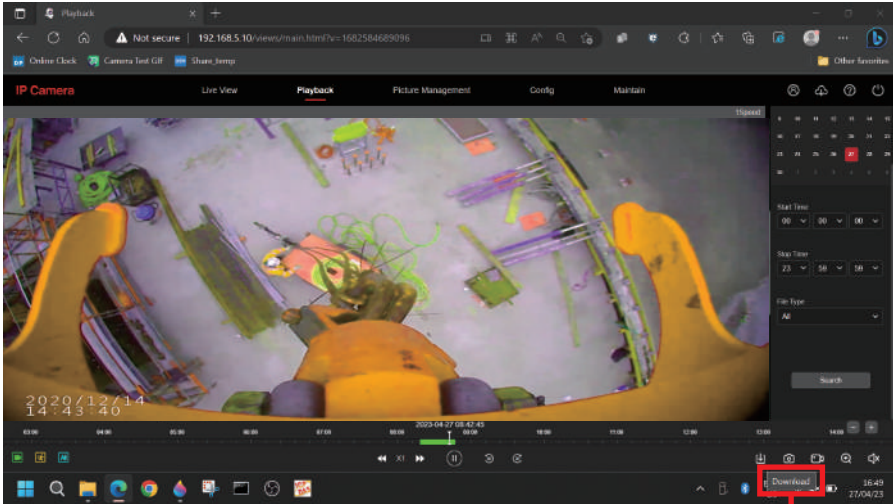




11. The green time bar with the video recording will appear at the bottom screen.
12. Press "Play" to watch the recorded video.



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



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## 6. Warranty & Services

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### **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.



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