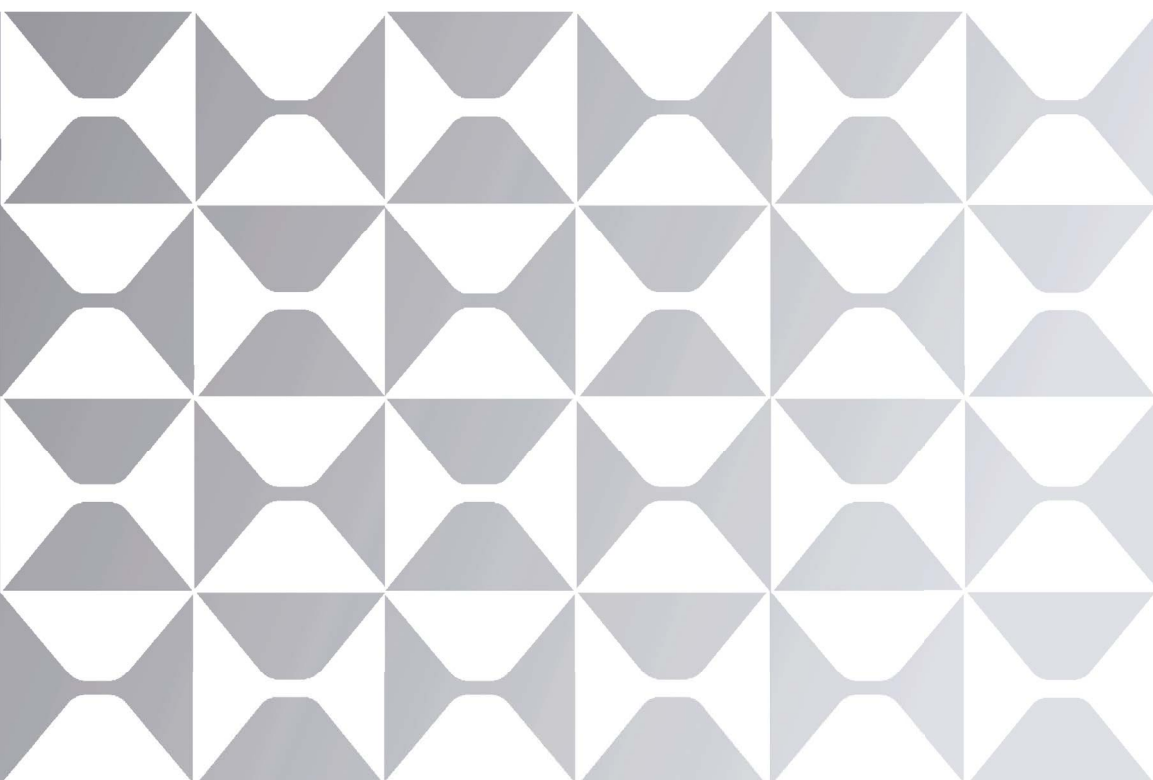




MAXHUB Portable Capture System



User Manual

V1.0

MAXHUB

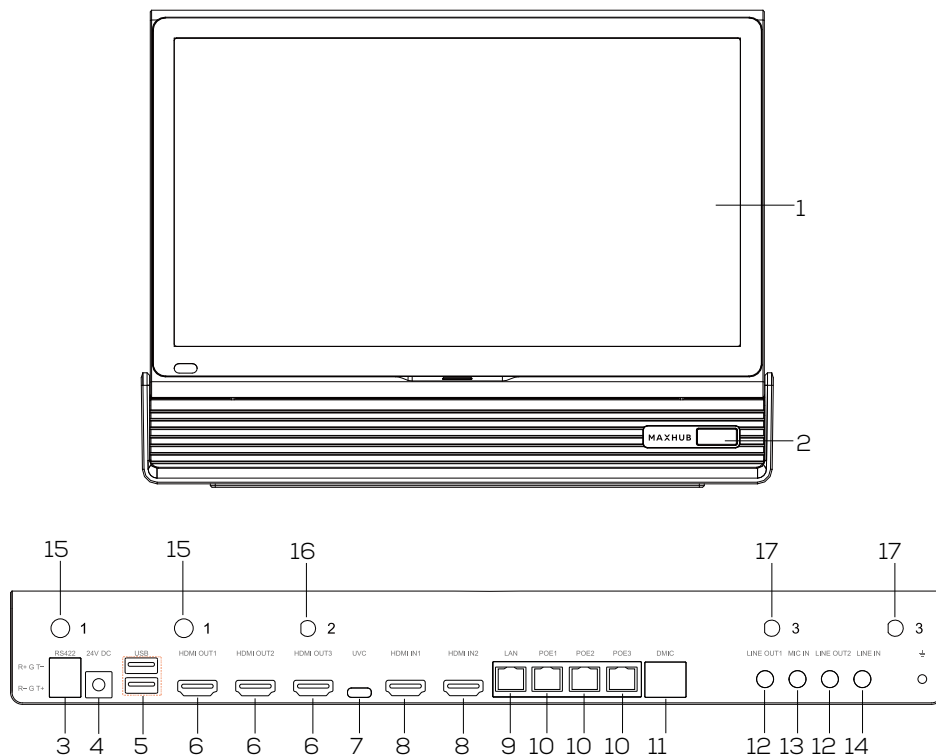


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1. Introduction

1.1. Portable Capture Host CSP50M



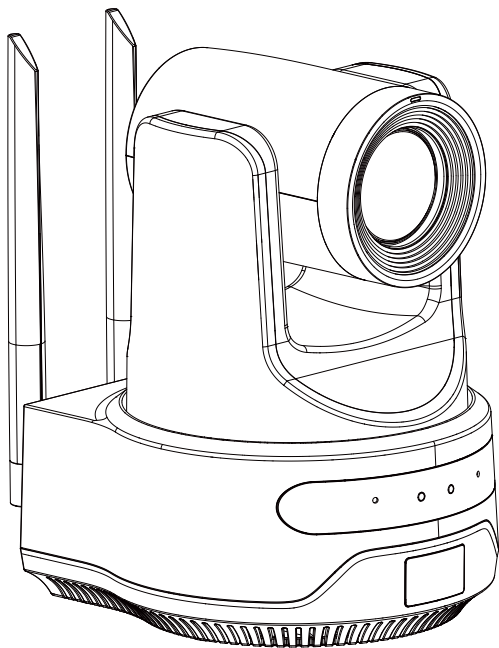
No.	Item	No.	Item
1	Touchscreen	10	POE 1/2/3 Interface
2	Power Button	11	DMIC Interface
3	RS422 Interface	12	LINE OUT1/2 Interface
4	DC IN Interface	13	MIC IN Interface
5	USB Interface	14	LINE IN Interface
6	HDMI OUT Interface	15	Antenna Interface: White, for wireless video transmission
7	UVC Interface	16	Antenna Interface: Gray, for connecting wireless microphones
8	HDMI IN Interface	17	Antenna Interface: Beige, for WiFi
9	LAN Interface		



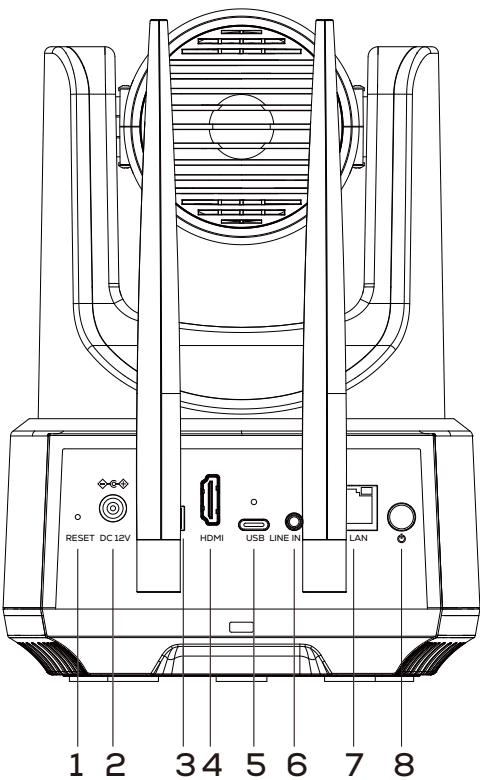
NOTE

When installing the antennas, make sure to match the color of the connector at the base of the antenna with the color of the silkscreen on the antenna interface of the device.

1.2. Wireless PTZ Camera EP50



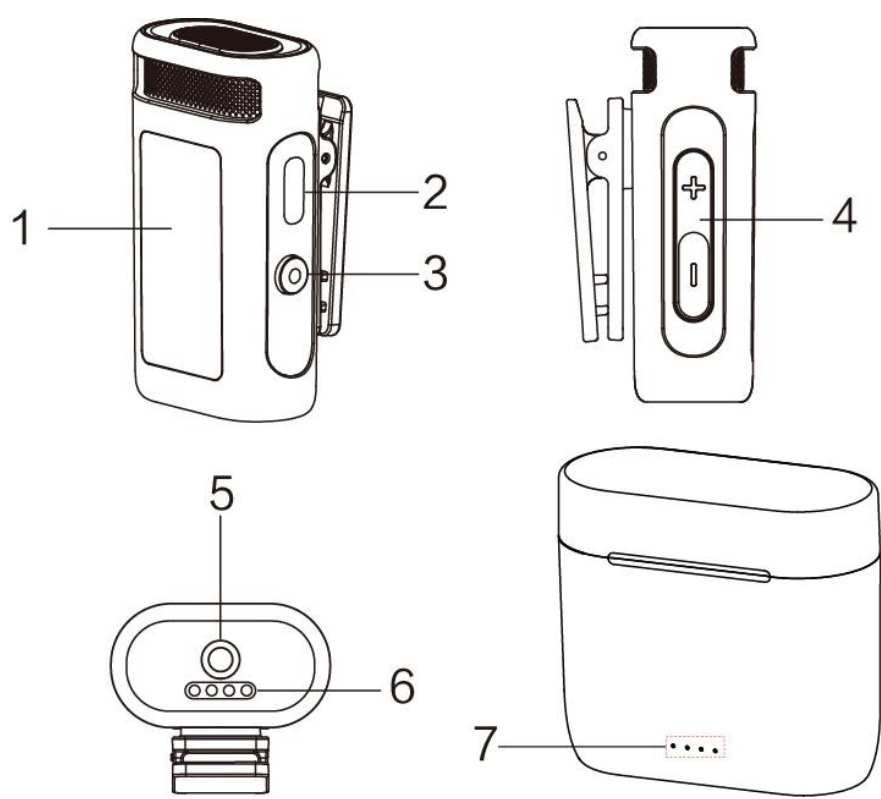
Front



Back

No.	Item
1	Reset
2	DC 12V Power Port
3	RS485 Port
4	HDMI Port
5	USB Port
6	Line In
7	LAN Port
8	Power

1.3. Wireless Lavalier Microphone LM50



No.	Item	Description
1	Microphone display screen	Displays the working status of the microphone.
2	USB Type-C port	Supports power supply and upgrade.
3	Microphone three-in-one button	Used for power on/off, pairing, mute/unmute.
4	Volume "+" and "-" buttons	Adjust the microphone volume.
5	Audio input port	3.5mm microphone audio input.
6	Pogo pin port	For charging the microphone when paired with the charging compartment.
7	Power indicator for the charging case	Displays the current power level and charging/discharge status of the charging case.

2. Installation

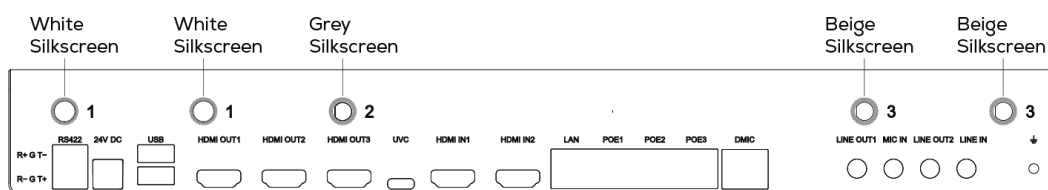
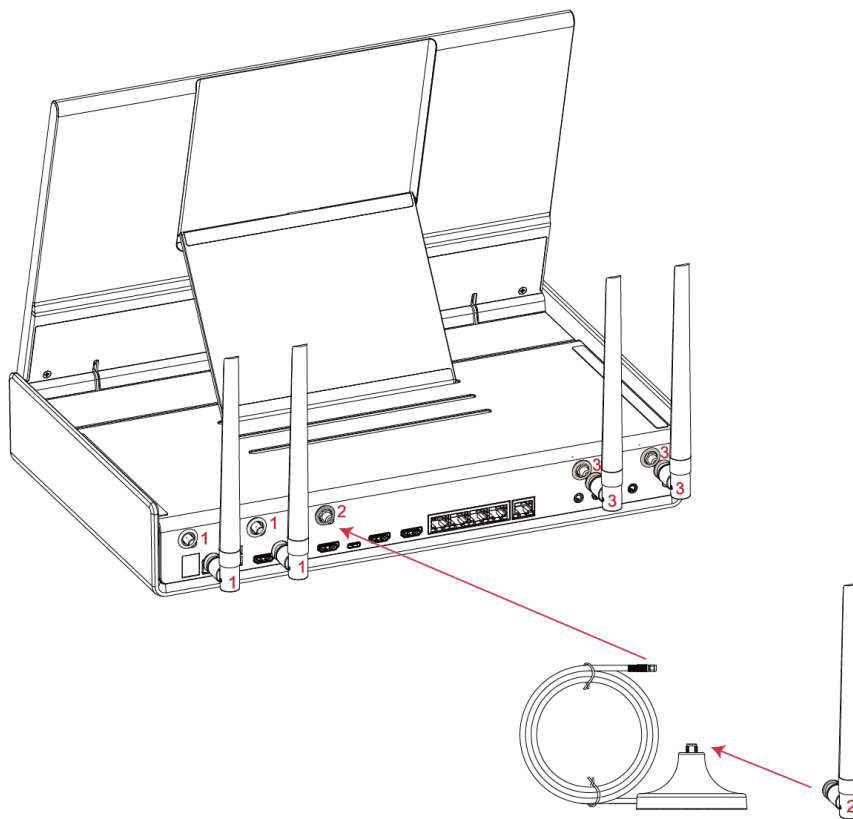
2.1. Portable Capture Host CSP50M

Step 1: Connect the two antennas with **white bases** and the two antennas with **beige bases** to the corresponding color-coded circular antenna ports on the capture host, turning clockwise to tighten.

Step 2: Turn clockwise to fix the port of extension cable to the central antenna port of the capture host.

Step 3: Fix one antenna with a gray base to the end of the extension cable base by turning clockwise.

Step 4: Fully unfold the extension cable, and place the antenna at the location farthest from the host (not lower than the height of the host).



2.2. Wireless PTZ Camera EP50

Screw the dedicated black camera antenna port into the antenna port of on the back of the camera. (Figure 2)



Figure 2. Wiring diagram of wireless camera antenna

Note: The capture host and the camera do not support waterproofing. Please ensure waterproof protection during outdoor use, and avoid using in rain, heavy snow, or foggy weather.

- 1) Avoid obstruction:** Make sure there are no physical obstructions between the wireless antennas of the capture host and the camera antennas.
- 2) Control the distance:** The distance between wireless cameras must be greater than 2 meters (Refer to Figure 3).



Figure 3. Camera installation spacing

3) Increase the height: The installation height of cameras must be greater than 2 meters, and the recorder main unit must be more than 1 meter above the ground, as shown in Figure 4.



Figure 4. Camera installation height

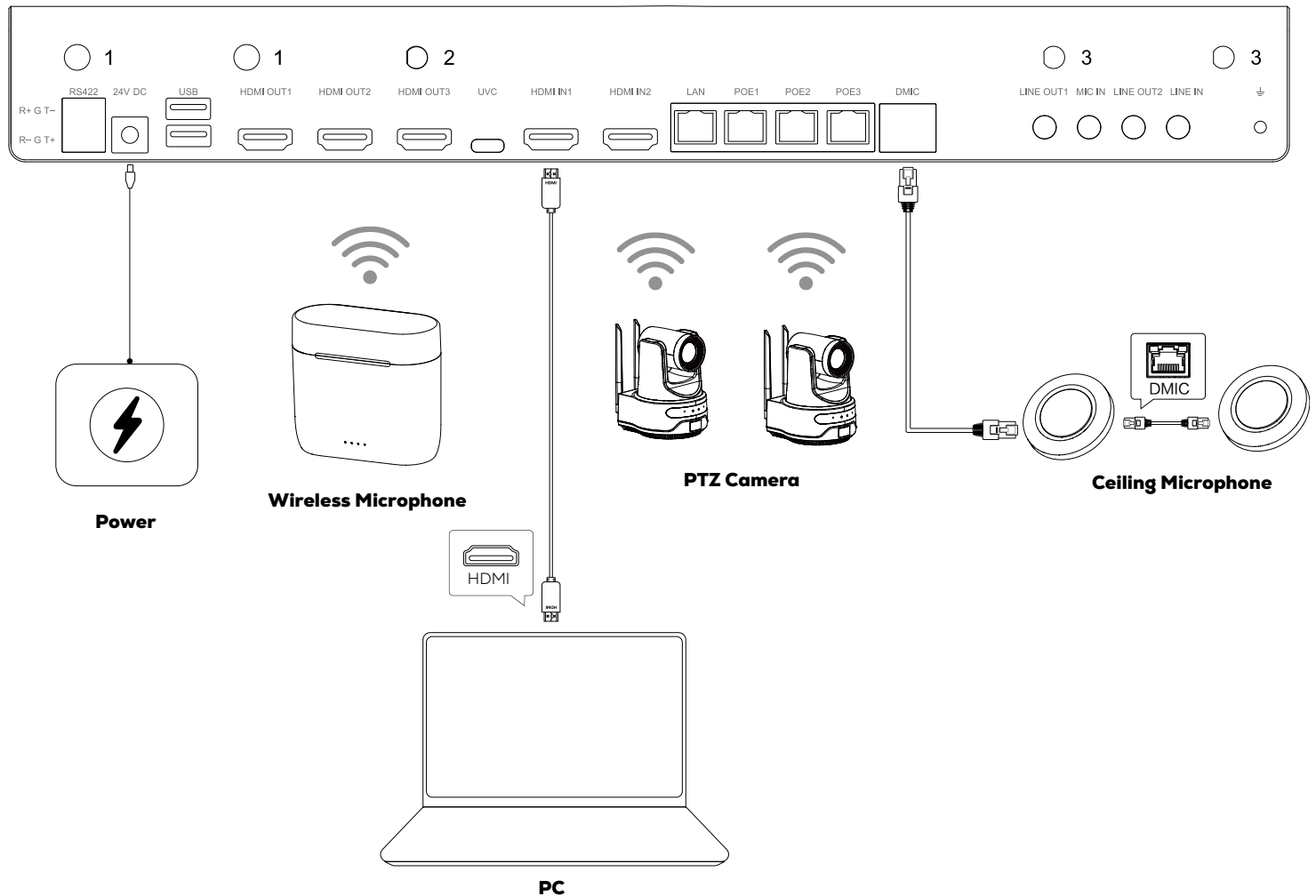
4) Keep the antenna unobstructed: Make sure that there are as few obstructions as possible below the host antenna, as shown in Figure 5 (with the host antenna positioned close to the edge of the table).



Figure 5. Schematic diagram of the host antenna hanging

3. Connection

Please refer to the diagram below for basic connection of Portable Capture Host CSP50M, Wireless Lavalier Microphone LM50, Wireless PTZ Camera EP50, etc.



4. Deployment

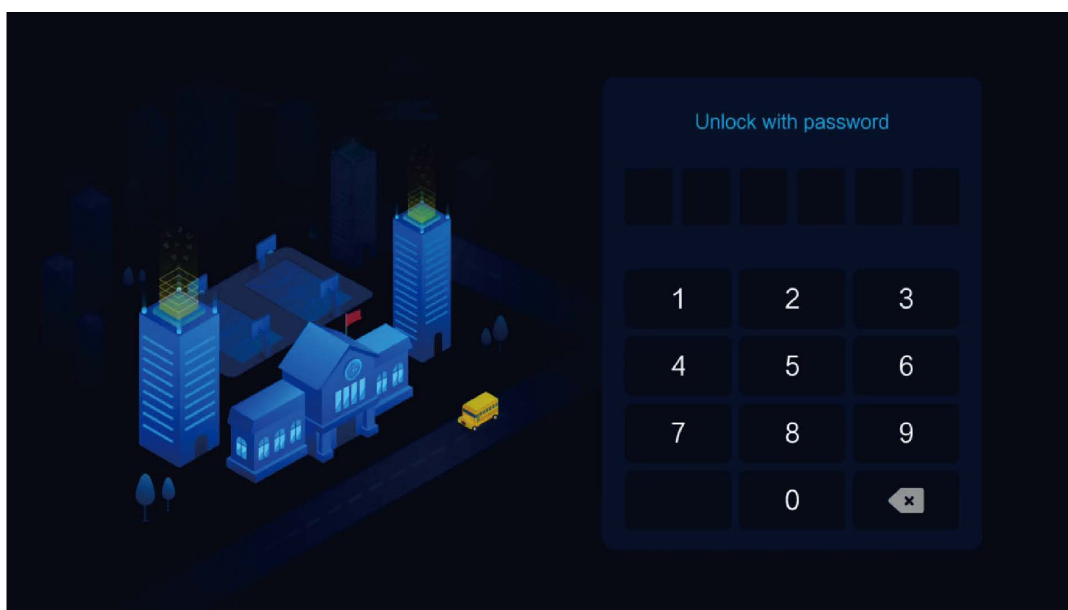
4.1. Portable Capture Host CSP50M

4.1.1. Power On

- 1). Capture Host/Camera: Press and hold for two seconds to turn on the device.
- 2). Wireless Microphone: Automatically turns on when taking out of the charging case, and bring it close to the host for pairing.

4.1.2. Unlock

After powering on, you need to enter the device management password to unlock the capture host for use. If you forget the password, please contact local after-sales personnel.



4.1.3. Check Network Connection

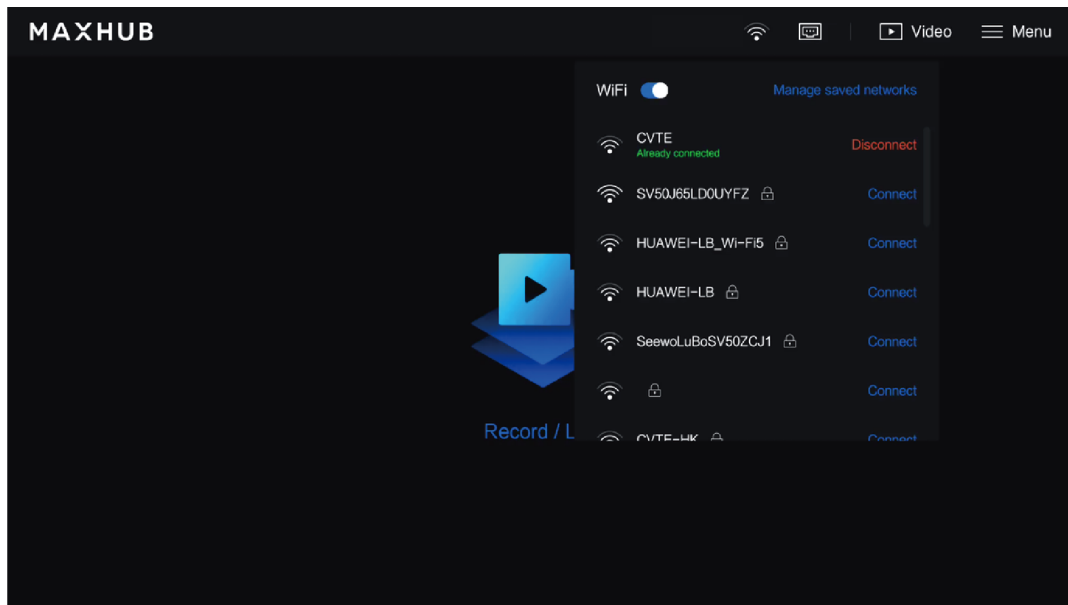
The capture host can connect to Wi-Fi or a wired network. You can check the Wi-Fi or wired network connection status at the top of the main interface.

1). Connect to Wi-Fi

Step 1: After turning on the Wi-Fi, the system will automatically search for nearby Wi-Fi networks.

Step 2: Select the Wi-Fi network and enter the password to connect.

Step 3: Once connected successfully, the capture host can work normally. And it will connect automatically next time.



2). Connect to a Wired Network

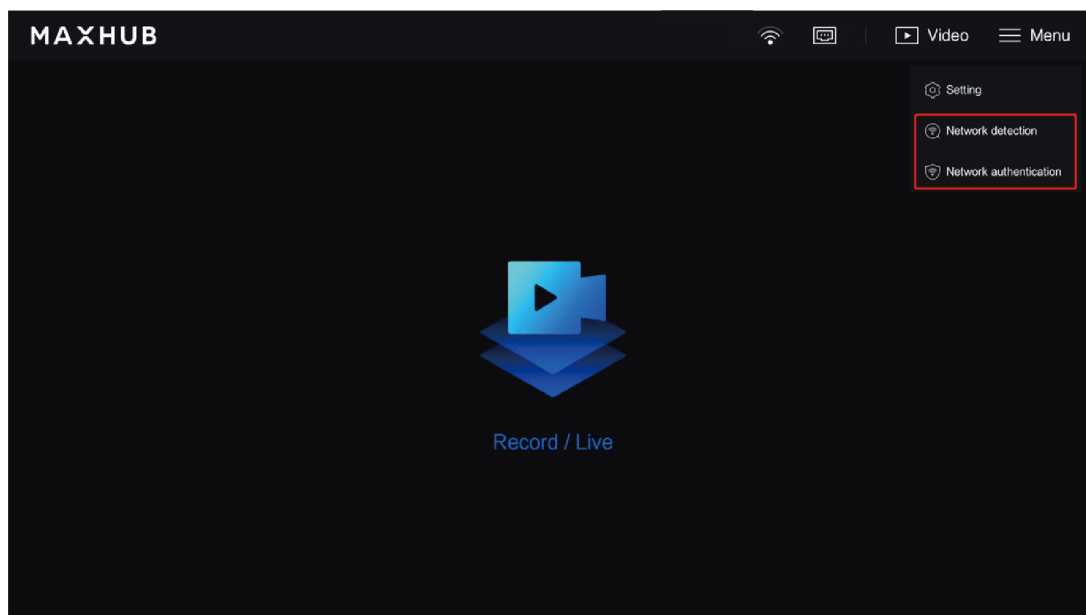
Connect the network cable to the LAN port of the capture host, and the system will automatically complete the network connection within a moment. If network settings are needed, please refer to **2.1.11. System Settings**.

3). Connect to a Wired Network

If the connected network cannot work, you can use the network diagnosis function. The system will automatically test the network and analyze any abnormal causes for troubleshooting.

4). Network Authentication

If network authentication is required, you can use this function to enter the authentication interface. Once authentication is complete, you can use the network.



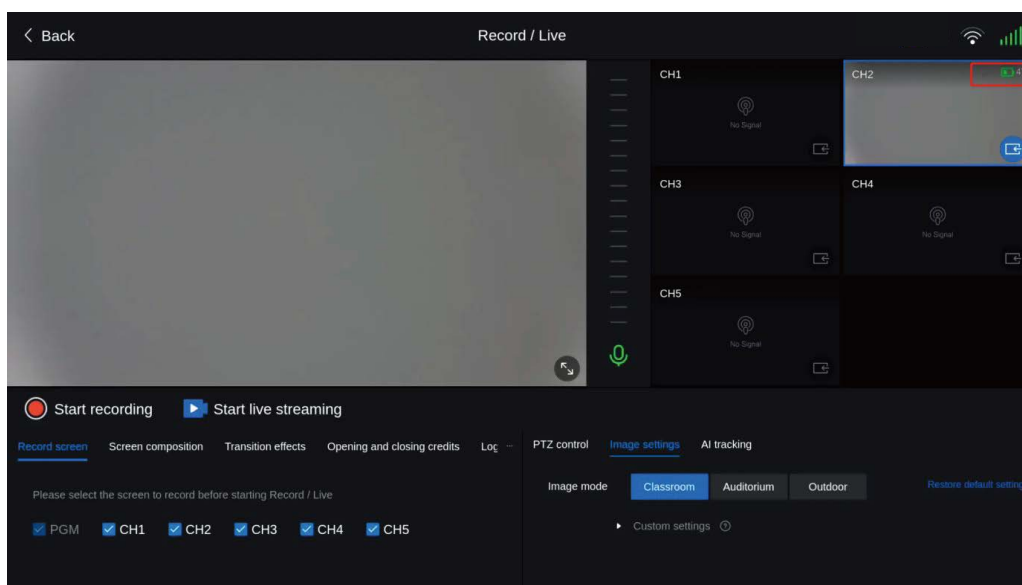
4.1.4. Check Video Connection

The capture host can connect to multiple camera images and HDMI input screens. Before handing over the device, the engineer will complete camera feed connections and binding to ensure the system is ready for use upon power-up. For details on camera connection and binding, please refer to **2.1.11. System Settings**.

1). Camera Image

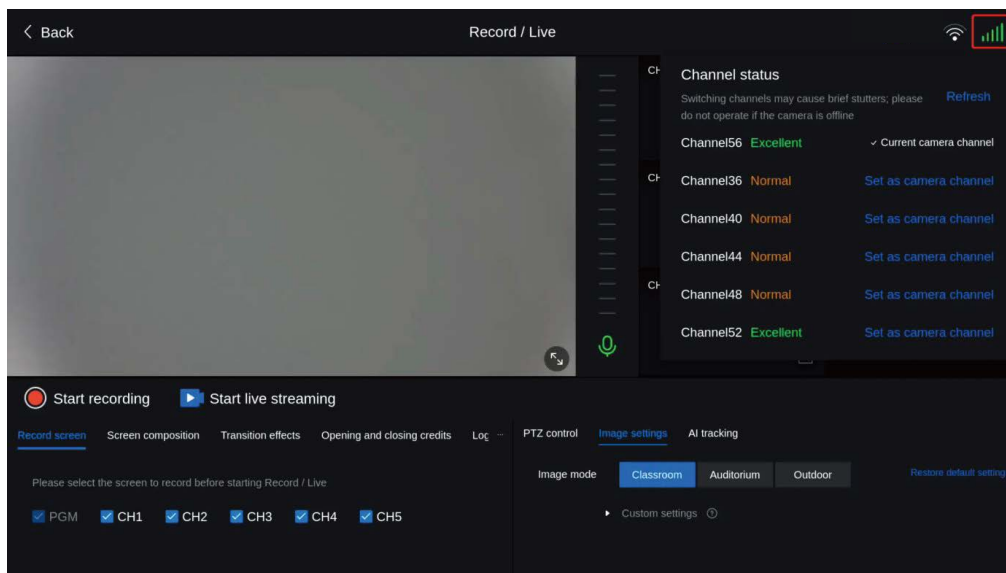
You can view the camera images through the capture host-the image should be clear and smooth with no stuttering.

- Check that the camera is powered and signal is connected. Please charge it promptly if the low battery warning appears.
- You can switch between different image modes according to your usage scenario to ensure the best image quality. Supported image modes include: classroom, presentation, outdoor, etc. Additionally, to meet more complicated scenarios, you can also adjust camera parameters such as exposure, white balance, anti-flicker, etc..
- If the camera image frequently displays a black screen or stuttering, please first check whether the antenna is properly connected and if the installation position meets requirements. Then check the wireless transmission channel status. If the current channel is poor, please switch to another channel.



2). Camera Channel

If the camera image is unstable (such as black screen or stuttering), please check the status of the current channel and switch to a higher quality channel to ensure the stable transmission of the camera image.



3). Computer Screen

If you need to input your personal computer screen into the capture host for recording or live streaming, simply connect the computer and the host separately to the **[HDMI IN1]** port.

4.1.5. Check Audio Input

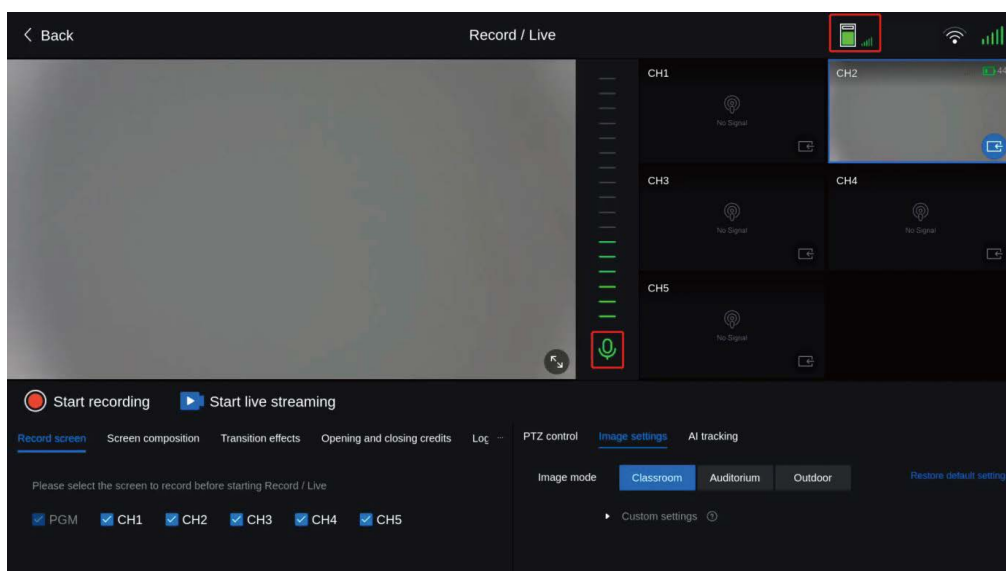
The capture host can capture audio via a wireless microphone or receive audio from external sources. When the host receives audio input, the volume bar will move continuously.

1). Wireless Microphone Pickup

The wireless microphone will automatically pair and connect to the capture host when they are close. The interface will display a microphone icon after connection, where you can check the remaining battery and connection status. You can use the volume buttons on the wireless microphone to increase or decrease the volume.

2). External Audio Input

External audio sources can be input through a 3.5mm audio cable into the capture host's **[Mic in]** or **[Line in]** port.



4.1.6. Recording/Live Broadcasting

1). Start/Stop Recording

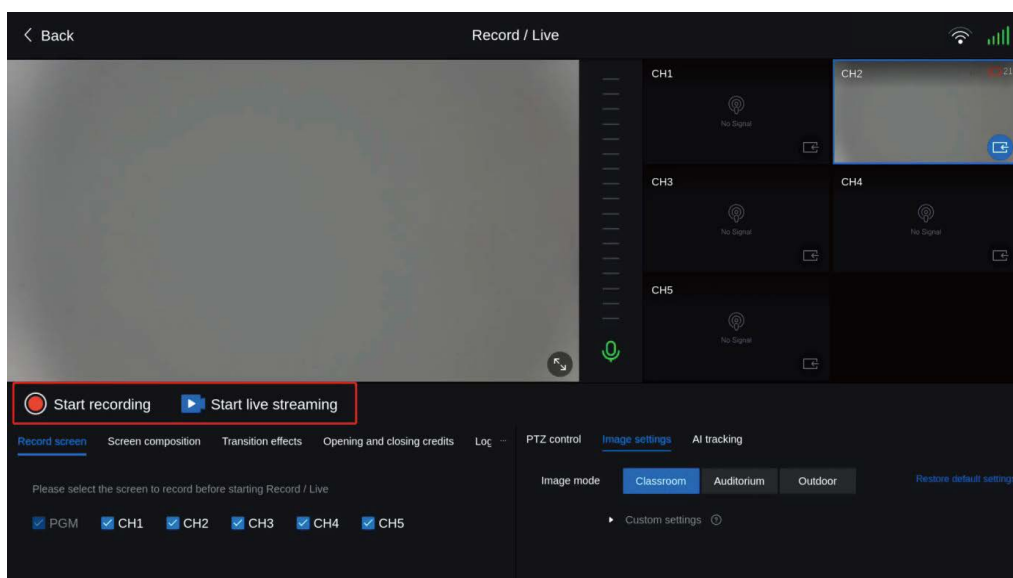
Before starting recording, you can select the screen you want to record on the interface. If you need to separate the audio or video in the recorded file, please refer to **2.1.11. System Settings**. Click the **[Start Recording]** button on the interface to begin recording.

2). Turn On/Off Live Streaming

Before starting the streaming, please configure the address of the live streaming platform to ensure that the video stream can be pushed to the live streaming platform correctly. For the configuration method of the live streaming platform address, please refer to the Caster software instructions.

Note: It is recommended to use the Youtube platform for live streaming. Other platforms have not been verified for adaptation and may have compatibility risks.

If you need to view or modify the live streaming resolution, please refer to **2.1.11. System Settings**. Click the **[Start Live Streaming]** button on the interface to start streaming.

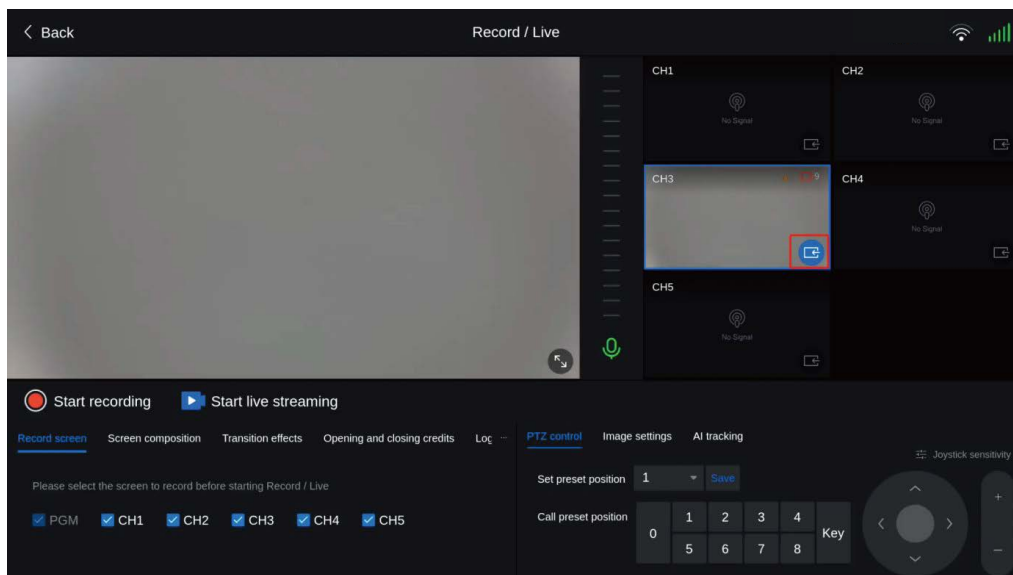


4.1.7. Director

The system provides rich switching capabilities to help you capture the best shots.

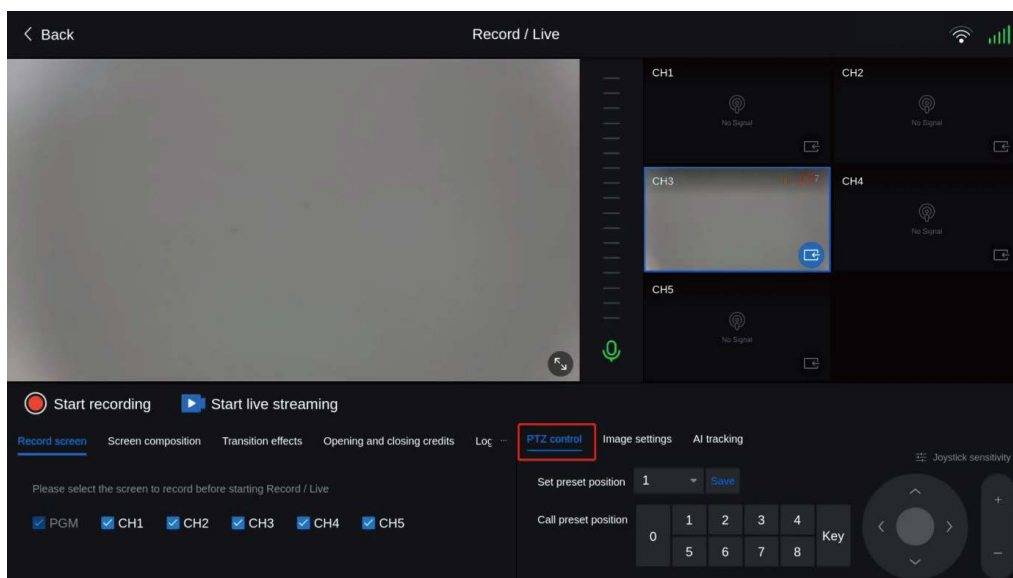
1). Switch Screens

Click the switch graphic button or double-click the preview screen to switch the PGM screen.



2).Camera PTZ Control

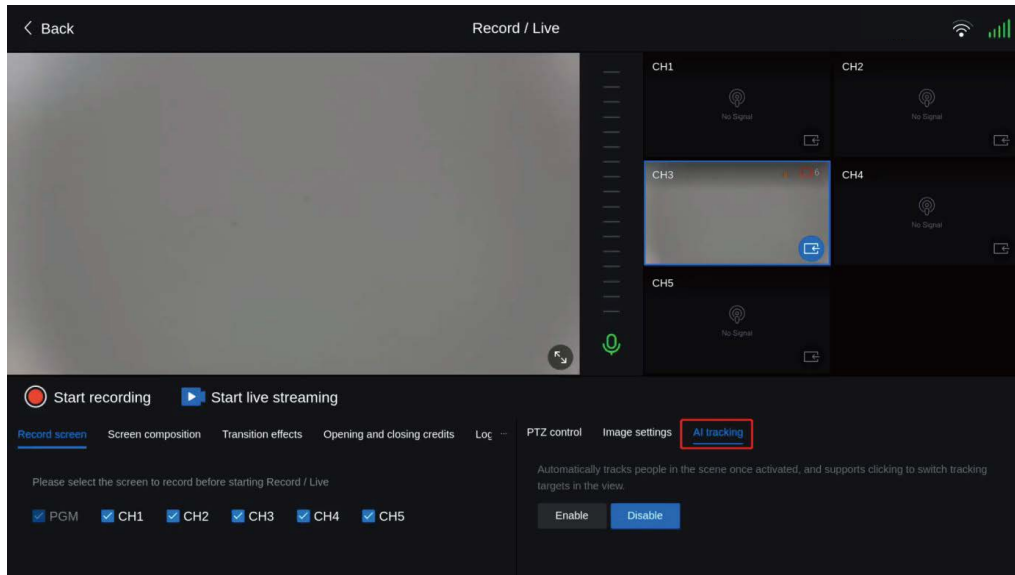
Select a camera and then you can control the camera to pan up, down, left, or right, and also zoom in and out. By setting preset positions, the system will automatically save the shooting frame for later direct recall without moving the camera.



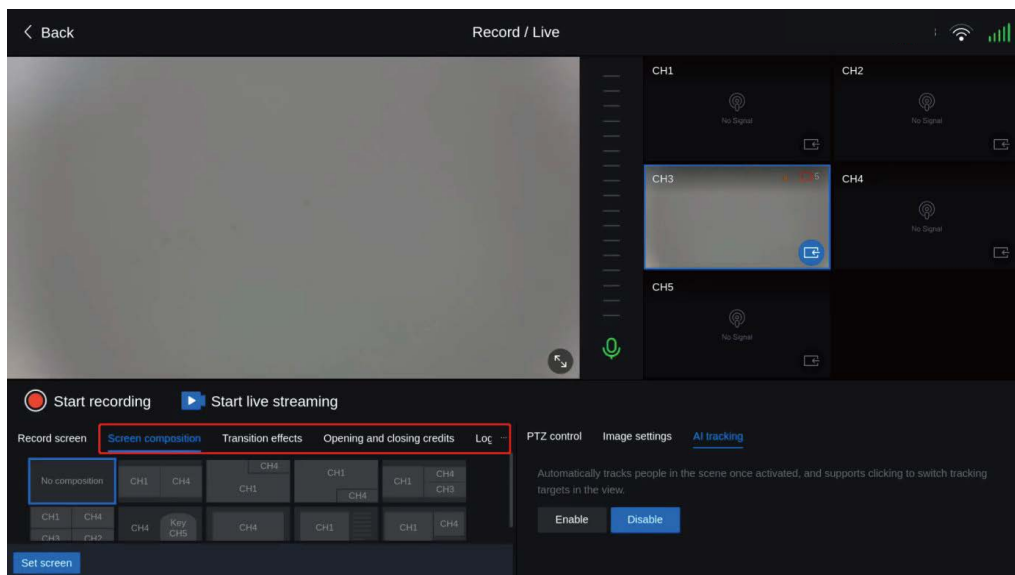
3).Camera AI Tracking

The camera can automatically track the selected people throughout the entire process. After enabling this function, the green frame indicates the current tracking target, and clicking the red frame allows you to switch the automatic tracking target.

In addition, the capture system also supports a variety of picture-in-picture modes, transition effects, video intros and outros, logos, and background images, helping you achieve rich visual effects.



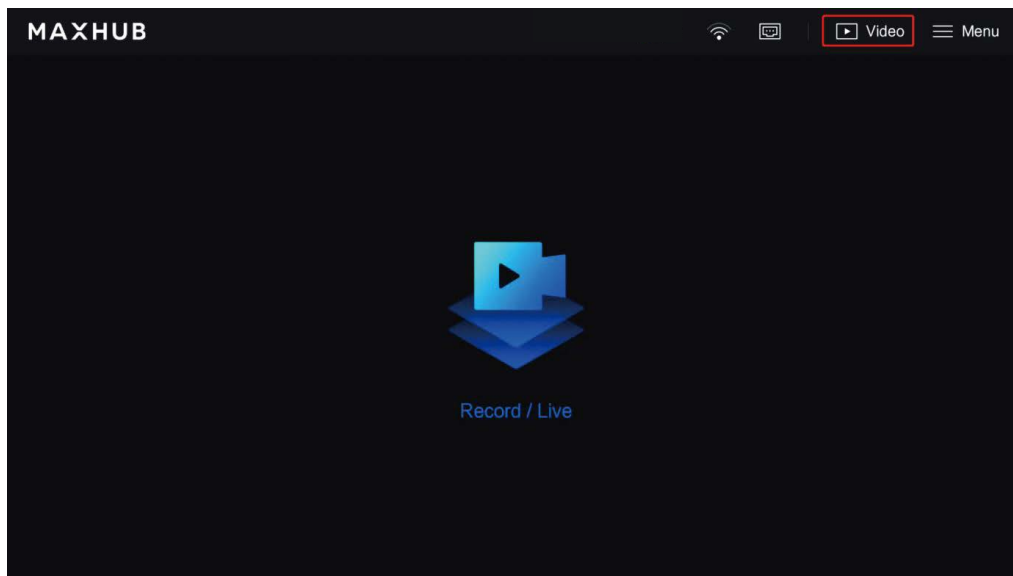
In addition, the capture system also supports a variety of picture-in-picture modes, transition effects, video intros and outros, logos, and background images, helping you achieve rich visual effects.



4.1.8. Video Management

1). Storage and Export

Recorded videos are automatically saved to the local device. You can view recorded videos through **"Video Management"** and export them via a USB drive.



2).Automatic Upload

The capture host supports FTP file uploads, automatically uploading videos from the host to a local server. Before doing this, you need to configure the server upload address in advance using the "Cater" software.

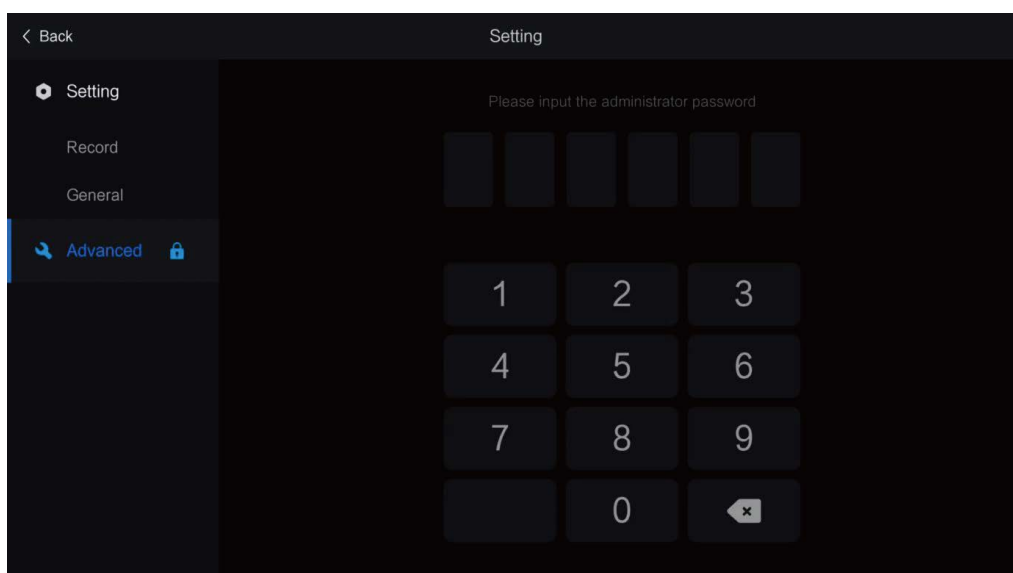
4.1.9. Meeting Interaction

You can transmit the PGM screen of the capture host to a personal computer's conferencing software such as ZOOM, enabling remote conferencing or interaction.

Connect the personal computer to the capture host via a Type-C cable, and select the video screen in the ZOOM software.

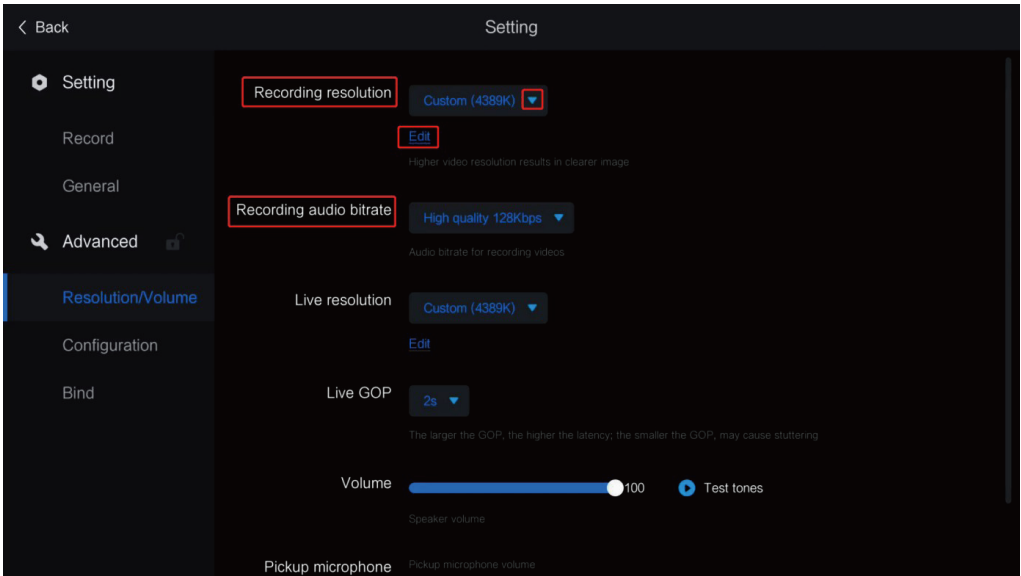
4.1.10. System Settings

You can configure settings of recording, live streaming, and networking. Some settings require administrator authentication. The important settings are introduced below.



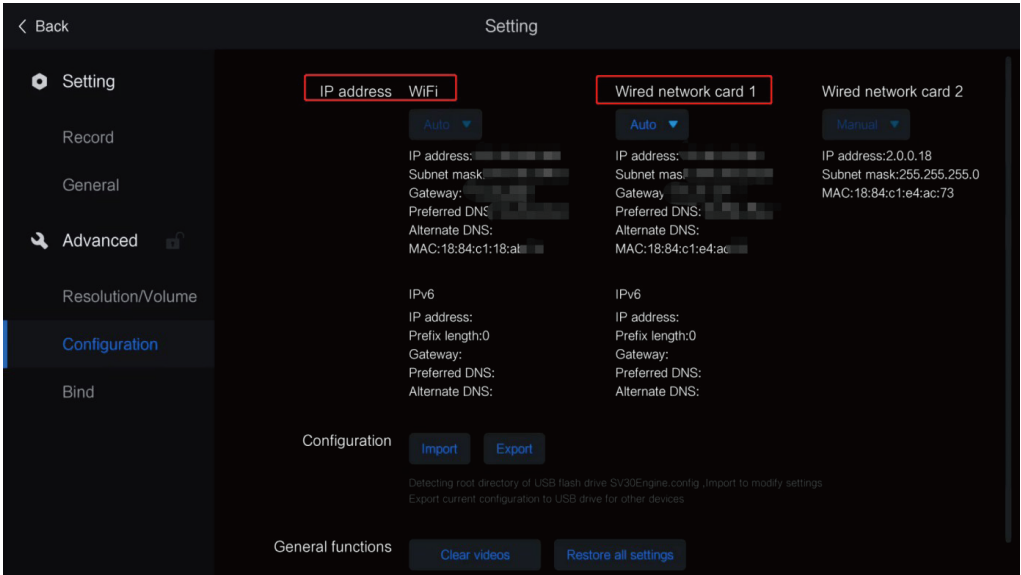
1). Recording/Live Streaming Resolution

After administrator authentication, you can view the current recording and live streaming resolution settings, and switch to other options from the drop-down menu. You can also make custom selections as needed.



2). Network Configuration

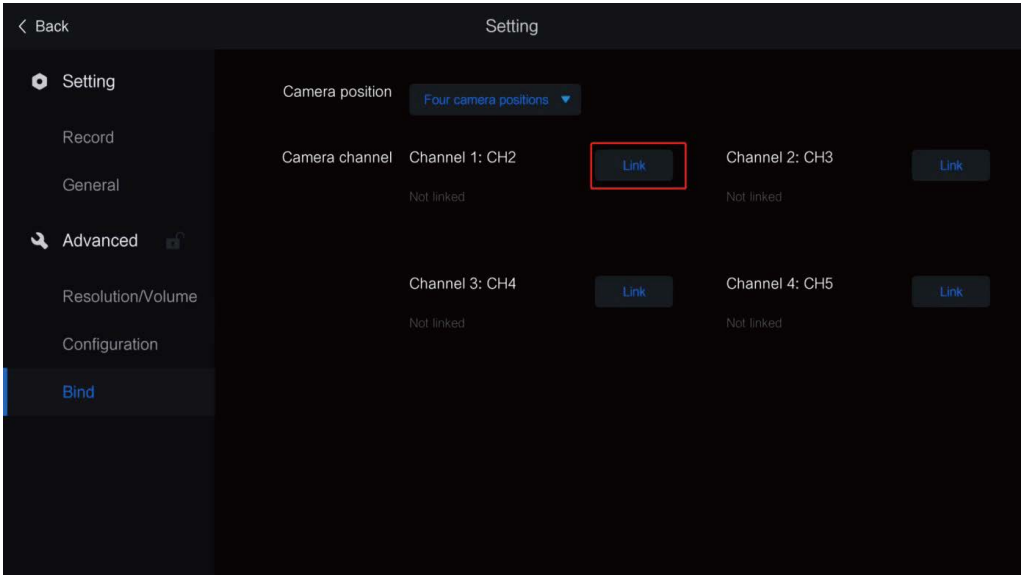
You can view the connected network information. When both wired network and WiFi are connected at the same time, the system will use the wired network by default.



3).Bind Camera

By default, four cameras can be used. If you have more cameras or need input via the **[HDMI2]** port, you can switch up to Channel 5, which means you can connect up to five cameras. Click the **[Bind]** button, and the system will automatically search for and detect nearby cameras. You can then select the ones you wish to bind in the list.

Note: The system does not support automatically detecting cameras from other brands.



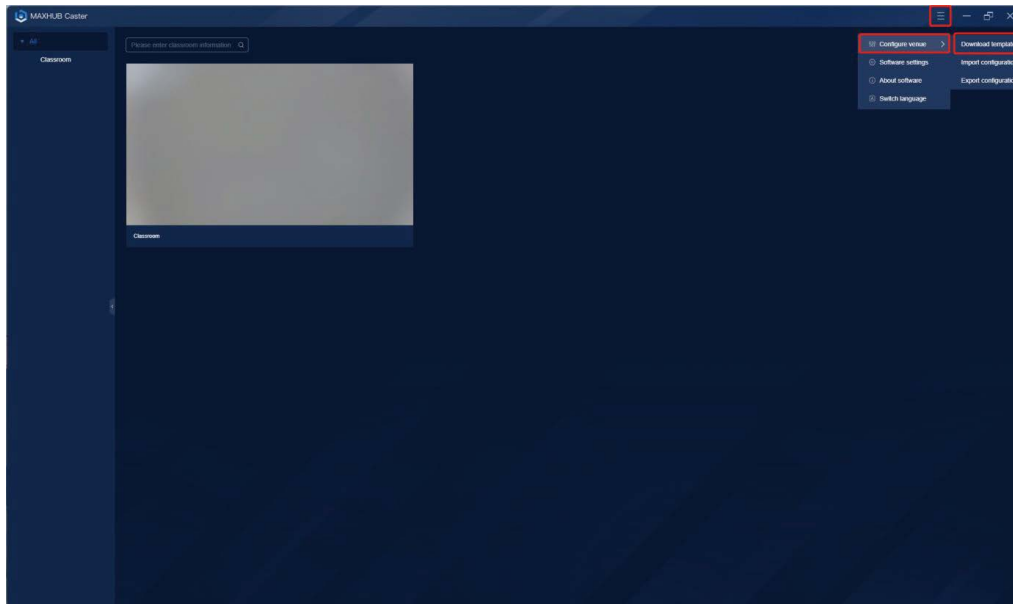
4.2. Caster Software

Caster, runs on Windows, is the configuration software for the recording and broadcasting system. With the Caster software, you can achieve remote monitoring and control across the local network, playback, download videos, set live streaming addresses, video upload address, etc.

1). Import Devices

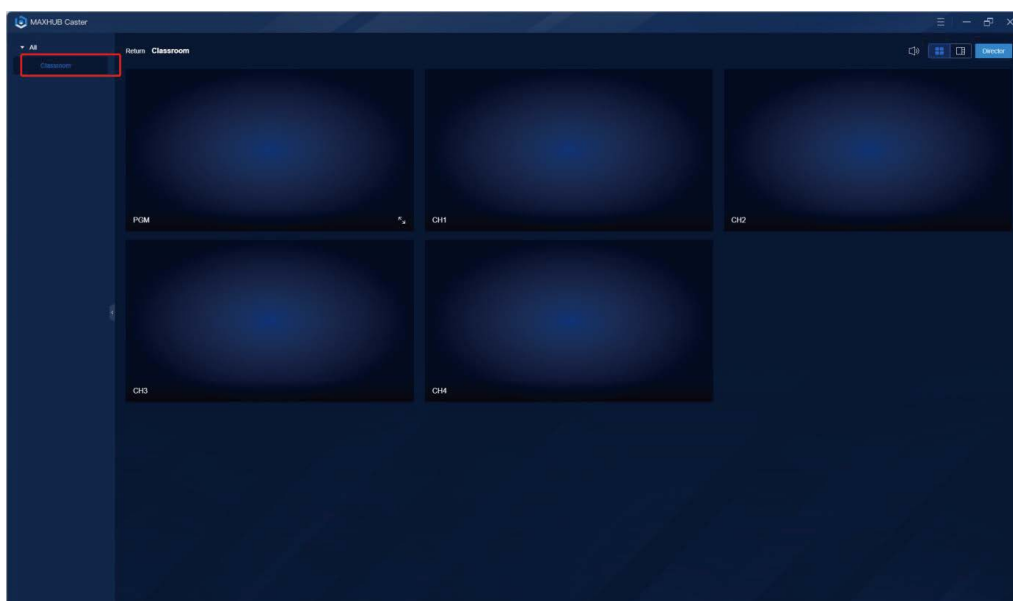
For the first use, you need to import devices:

- 1) download the template.
- 2) fill in the device information.
- 3) Re-import it after updating.



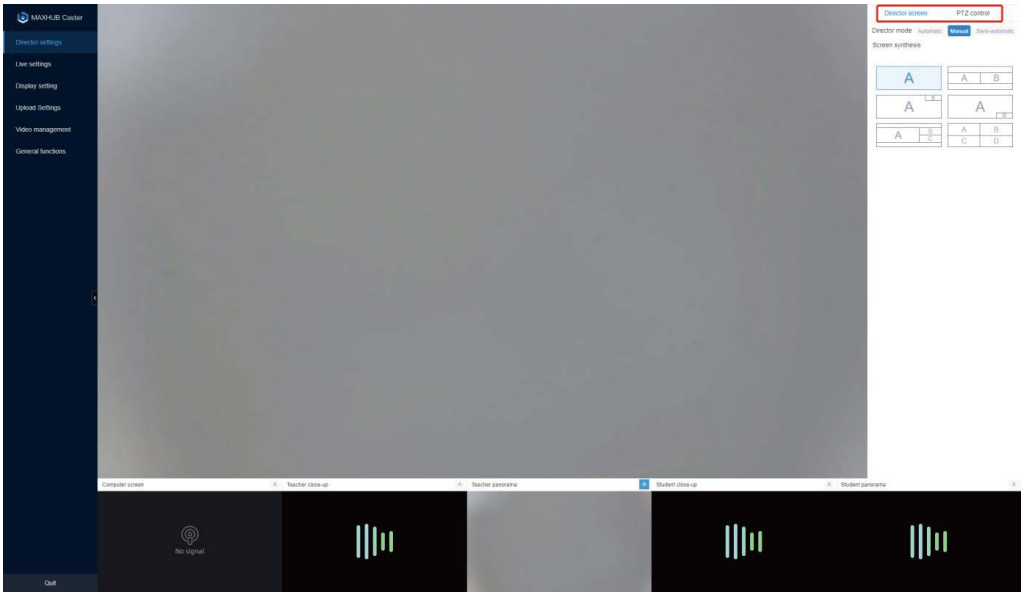
2).View Device Screens

Click the corresponding device to view all the screens of that device.



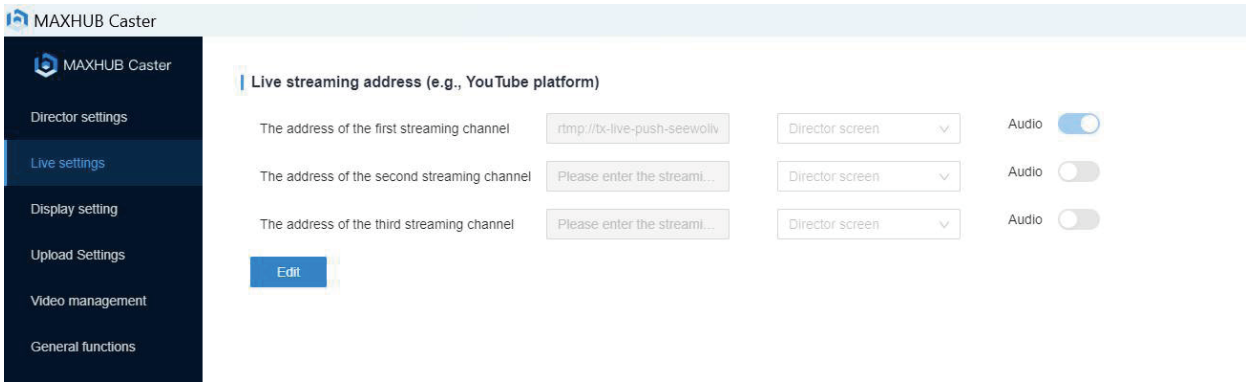
3).Directing

Click the **[Director]** button at the top right corner to enter the directing interface. You can switch the PGM, select the director mode, and control the camera PTZ.



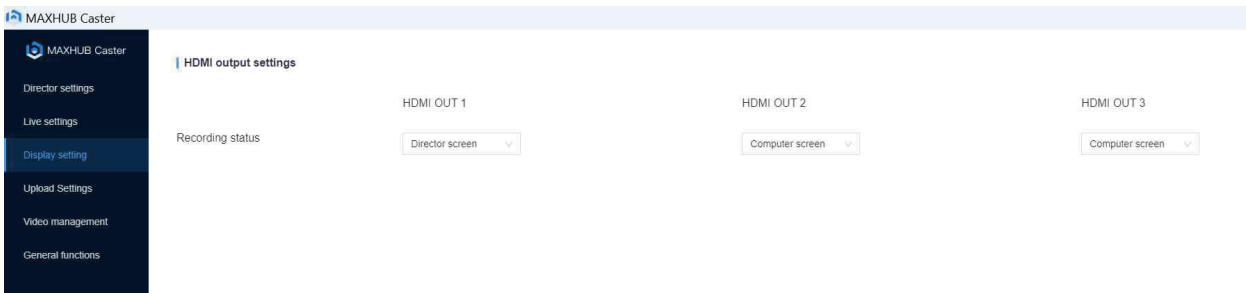
4).Set Live Streaming Platform Address

You can set up to 3 live streaming platform addresses. Once the live stream is started, the capture host will push the stream to these addresses. You need to paste the streaming address (including stream inquiry address + key) into this module, select the live streaming screen, and choose whether to enable audio before saving your settings.



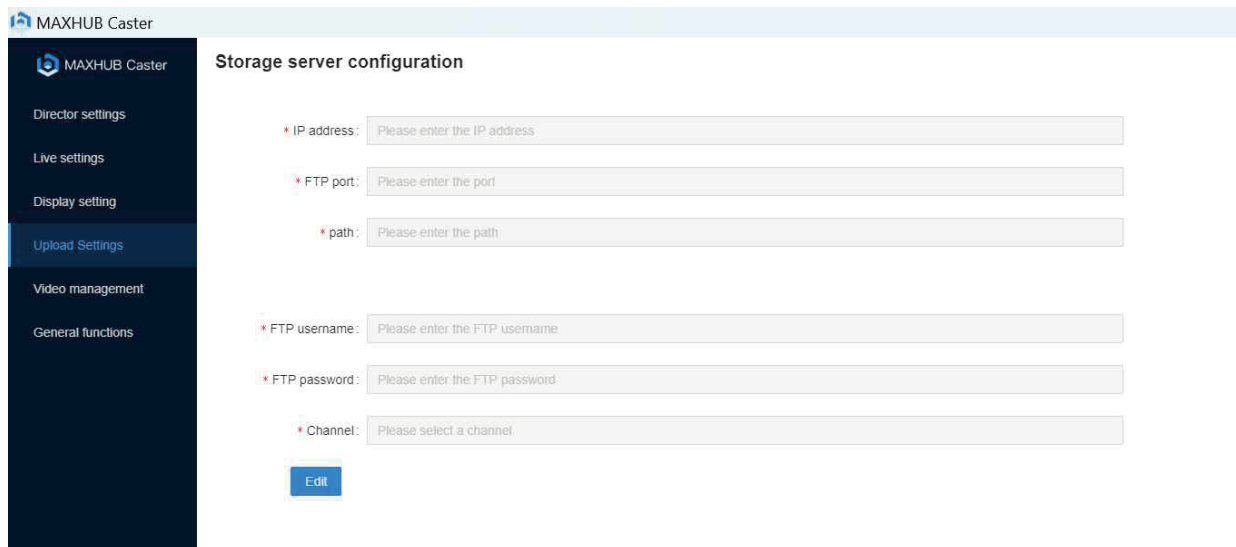
5).Set HDMI Output Screens

The capture host can output the stream to a display via HDMI. In this module, you can configure the screen output for each HDMI port.



6).Set Video Upload Server Address

Enter and save the local server address for uploading videos, the streaming server will automatically upload videos to the designated server.



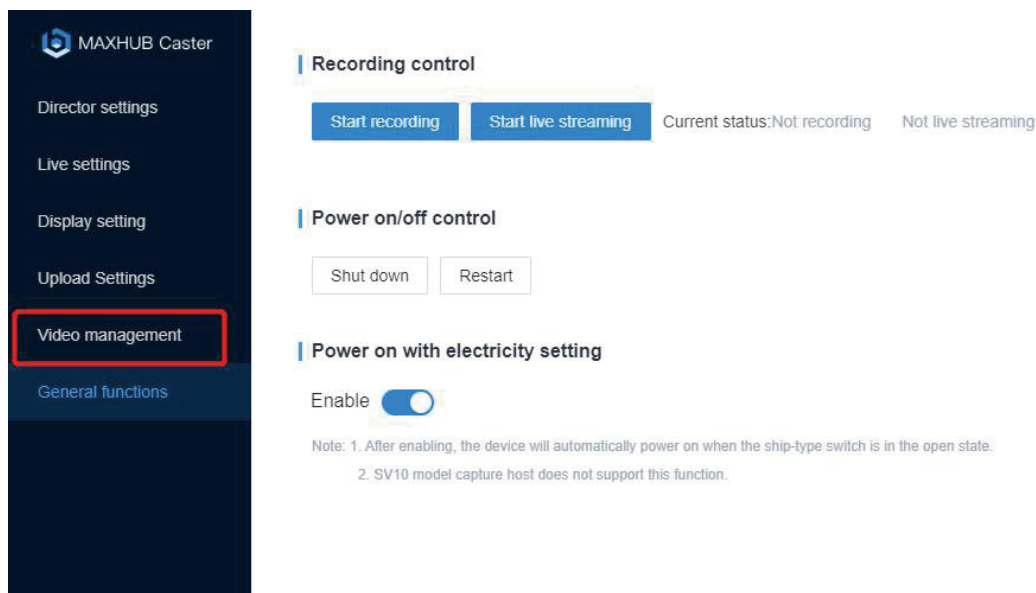
The screenshot shows the 'MAXHUB Caster' interface with a sidebar on the left containing menu items: Director settings, Live settings, Display setting, Upload Settings (highlighted), Video management, and General functions. The main area is titled 'Storage server configuration' and contains several input fields, each with a red asterisk indicating it is required:

- * IP address: Please enter the IP address
- * FTP port: Please enter the port
- * path: Please enter the path
- * FTP username: Please enter the FTP username
- * FTP password: Please enter the FTP password
- * Channel: Please select a channel

An 'Edit' button is located at the bottom left of the configuration area.

7). Download Videos

Click Download Video button, the video list will be opened in your browser. Then you can preview the required videos or download to your local device.



The screenshot shows the 'MAXHUB Caster' interface. The sidebar on the left has 'Video management' highlighted with a red rectangle. The main area displays three sections:

- Recording control**: Contains 'Start recording' and 'Start live streaming' buttons. The current status is 'Not recording' and 'Not live streaming'.
- Power on/off control**: Contains 'Shut down' and 'Restart' buttons.
- Power on with electricity setting**: Contains an 'Enable' toggle switch, which is currently turned on.

Below the toggle switch, there are two notes:

1. After enabling, the device will automatically power on when the ship-type switch is in the open state.
2. SV10 model capture host does not support this function.

MAXHUB

