

Univiso Spark Mini

User Manual

V2.2.5



September 1, 2026

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1. Overview

1.1 Scope and Audience

This user manual is a Univiso technical document intended for technical maintenance personnel, testers, and customers.

This document provides readers with a quick start and basic management guide, including basic terminal functions, quick configuration guide, and trouble shooting.

1.2 Spark Mini Overview

Spark Mini series live broadcast terminals are high-performance live broadcast terminals designed for modern lightweight live broadcast needs in the Univiso live broadcast product family. They integrate broadcast-grade HEVC/AVC video compression algorithms and intelligent multi-link aggregation technology to ensure high-definition audio and video transmission while achieving a miniaturized design with low power consumption and low latency.

Spark Mini supports HDMI and USB audio and video acquisition, and can be widely connected to common portable video recording devices; it also integrates the i-Mux aggregation transmission engine to provide up to 8-network real-time aggregation capabilities; the USB-C interface design can be easily connected to USB-C video recording devices or USB-C battery life, providing a strong guarantee for uninterrupted long-life live broadcast. At the same time, it provides hotspot access while providing WiFi aggregation access, and can easily manage the device and assist PTZ control directly through a mobile phone or computer. SparkMini will become the strongest helper for users to normalize and professionalize live broadcasts with its small, fast, flexible and stable characteristics.

2. Hardware

2.1 Interface overview

I. INTERFACE AND BUTTON DESCRIPTION

■ The terminal interface and buttons are shown in the figure below:

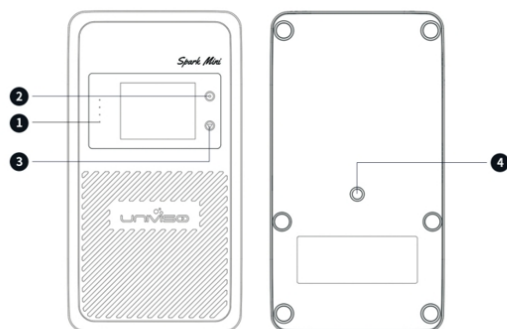


Figure 1-1

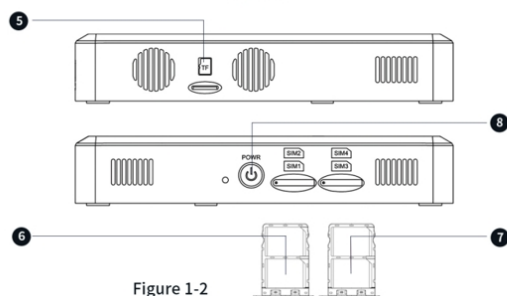


Figure 1-2

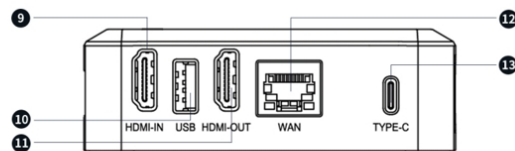
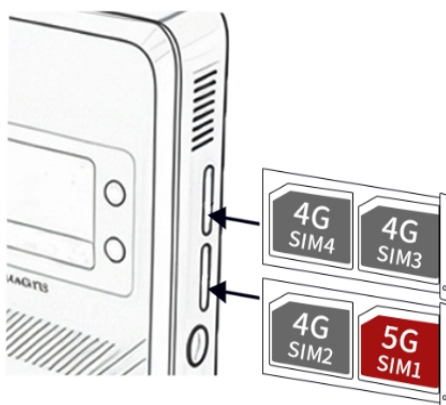


Figure 1-3

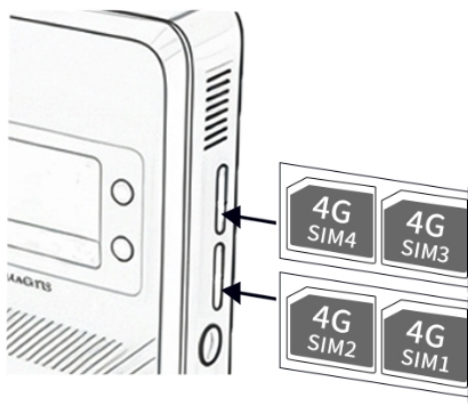
■ Introduction of components

Number	Name
1	Battery indicator
2	Confirm button
3	Down button
4	1/4 conversion connector
5	TF card slot
6	SIM-1/2 card slot
7	SIM-3/4 card slot
8	Power button
9	HDMI-IN interface
10	USB interface
11	HDMI-OUT interface
12	Ethernet interface
13	TYPE-C interface

2.1.1 SIM card slot installation



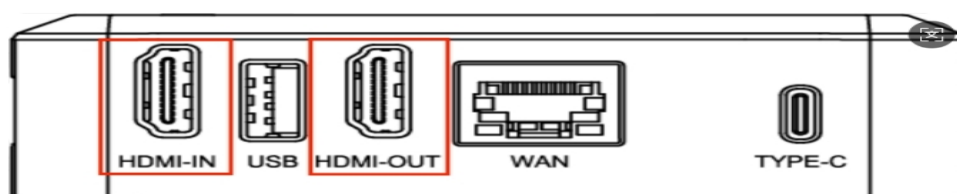
5G version-SIM card installation diagram



4G version-SIM card installation diagram

2.1.2 HDMI interface

The terminal is equipped with two HDMI interfaces, which are printed on the terminal as HDMI-IN and HDMI-OUT. HDMI-IN is the audio and video signal access interface, and HDMI-OUT is the audio and video signal loop-out interface. The loop-out comes with audio and can loop out videos of different formats. For details on the operation, see the relevant operation introduction in the local Web login and page introduction.



2.1.3 USB interface

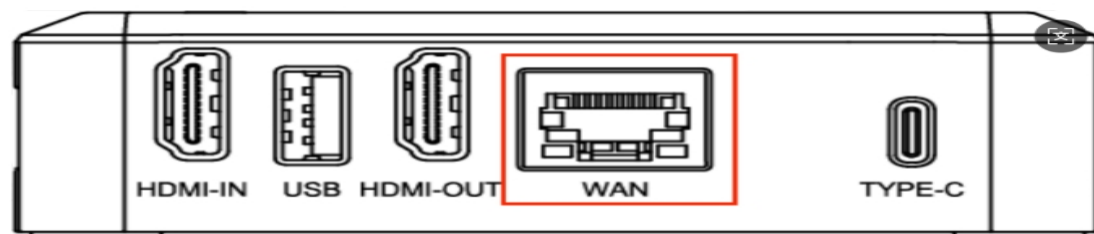
The terminal is equipped with two USB type interfaces, namely USB-A and USB-C interfaces. The terminal is printed with USB and TYPE-C. Both interfaces can be connected to UVC protocol cameras. Among them, the USB interface can power external camera devices and collect audio and video signals from UVC protocol cameras: the TYPE-C interface can power external camera devices and collect audio and video signals from UVC protocol cameras. It can also use an external power supply to power the terminal. The TYPE-C interface supports the PD protocol with a maximum fast charge of 30W, while the USB does not support the PD protocol.

The external discharge voltage of the terminal USB interface is 5V, and the maximum adaptive current is 6A. The USB type interface can also be connected to a USB dongle. Both USB and TYPE-C can be connected to a USB dongle as a network link for mixed bundling and aggregation transmission.

interface	Type	Silkscreen	Power supply	Charge terminal	Quick charge protocol	USB dongle
USB	USB-A	USB	Support	Not Support	Not Support	Support
	USB-C	TYPE-C	Support	Support	Support	Support

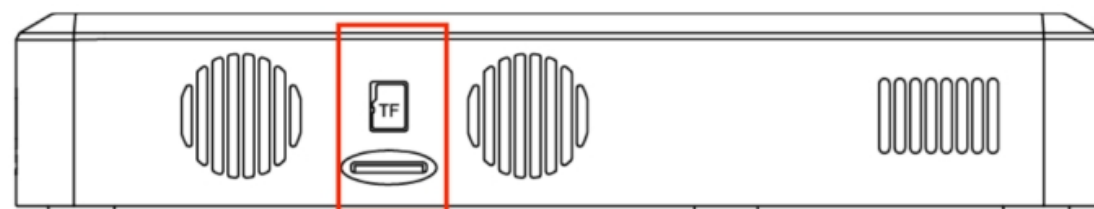
2.1.4 WAN interface

The terminal is equipped with a Gigabit wired network port: connect the RJ45 network cable.



2.1.5 TF card interface

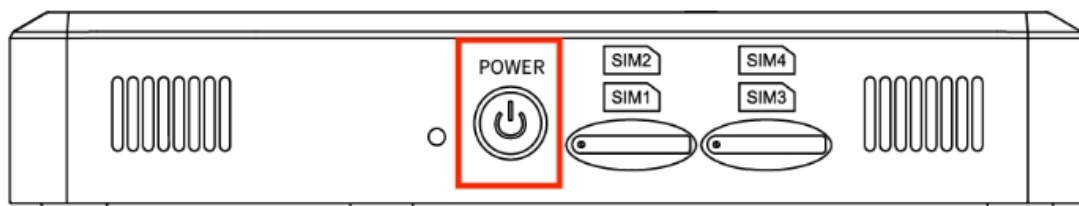
The terminal is equipped with a TF card slot, which comes standard with a 64GB high-speed memory card and supports up to 1TB memory card. It supports hot swapping. TF card standard: UHS-3 (U3) or V30 speed grade.



2.2 Buttons

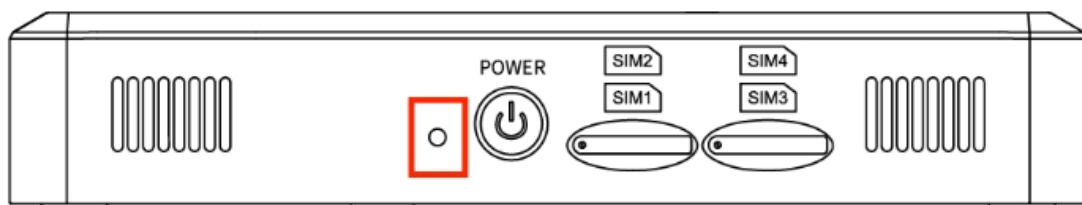
2.2.1 Power button

The terminal is equipped with a power button. If you press and hold it for 1-2 seconds, there will be a "beep" buzzing sound. The power button will not light up when shutting down, and the power button will always light up green when booting up. If you press the power button for 1-2 seconds and hear a "beep" buzzing sound when shutting down, but the terminal does not shut down, you can press and hold the power button for 3-5 seconds again. When you hear two consecutive "beep" buzzing sounds, the terminal can be forced to shut down.



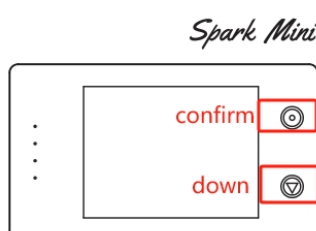
2.2.2 Reset button

The terminal is equipped with a reset button. If pressing the power button fails to shut down, the reset button can be used to shut down. Press the reset button with a sharp object to immediately shut it down.



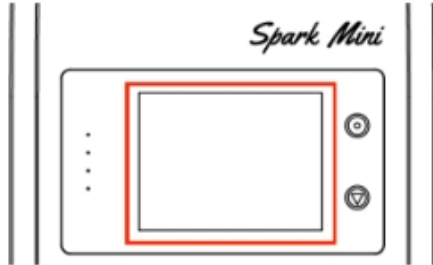
2.2.3 Screen button

The terminal is equipped with a confirm button and a down button. The confirm button is responsible for selection and confirmation, and the down button is responsible for scrolling to the next page. Each touch will have sound feedback.



2.3 LCD screen

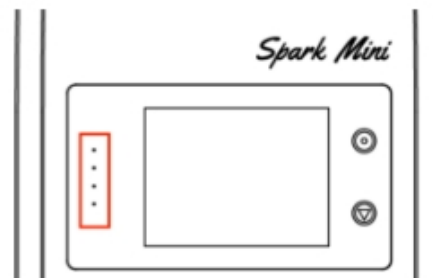
The terminal is equipped with a 2-inch LCD screen and a tempered glass outer panel.



2.4 Power indicator

The terminal is equipped with 4 power indicator lights, each light represents 25% of the power, and the power display is stacked from bottom to top. press the power button to display the current power level.

When the terminal is charging, the power indicator above the current power level will flash continuously. When it is fully charged, the four power indicators will be on. When the terminal is discharging, the power indicator will be keep on, indicating the current power level.



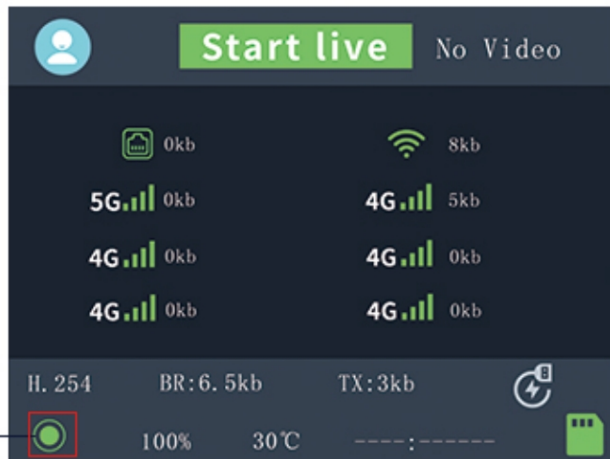
2.5 Fan

The terminal is equipped with two high-speed silent fans, which are located inside the two circular grilles on the side of the fuselage. The circular grilles are air inlets, and the square grilles on the side of the fuselage are air outlets. The fans start working when the terminal temperature is above 35°C, and stop working when the terminal temperature is below 35°C.

3. Software

3.1 LCD screen display introduction

3.1.1 Home page

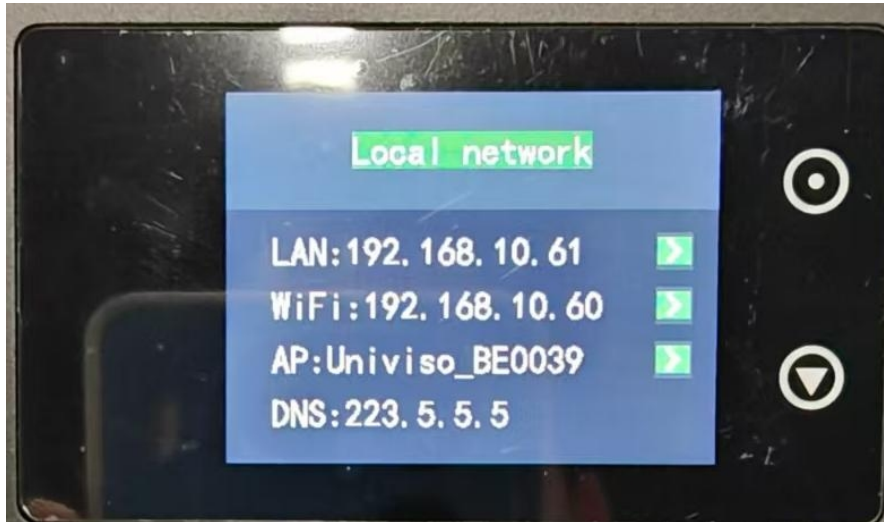


The meaning of the icons on the home page are as follows:

- ① :Logged in : Not logged in
- ② :wait for start live :Live
- ③ :No signal input
- ④ :Wired network not connected :Wired network connected
- ⑤ :WiFi not connected :WiFi connected
- ⑥ :SIM card network and signal
- ⑦ :Video encoding format
- ⑧ :Real-time encoding bitrate :Real-time transmission bitrate
- ⑨ :Type-C not connected :Type-C charging :Type-C discharging
- ⑩ :Automatic Record is enabled
- ⑪ :Connected to the cloud server :Not connected to the cloud server
- ⑫ :Battery display :Charging display :Full charge protection
- ⑬ :CPU temperature display
- ⑭ :No signal input :Signal input format and standard
- ⑮ :TF card not inserted :TF card inserted

Note: Press the confirm button on the home page. If the terminal has no network access, it will display No network available. If the terminal is not logged in, it will display the cloud platform login QR code. If the terminal is logged in, it will display whether to start and stop the live broadcast.

3.1.2 Local network page



- ① LAN is the IP of the wired network. Select it to view the IP, mask, gateway, etc.
- ② WiFi is the IP obtained by the terminal after connecting to WiFi. Select it to view the IP, mask, gateway, etc.
- ③ AP is the hotspot name. The default is the Mid number of the Univiso+ terminal. Select it to view the hotspot name and password. The default password is 12345678.
- ④ DNS is the DNS of the terminal.

3.1.3 Manage page

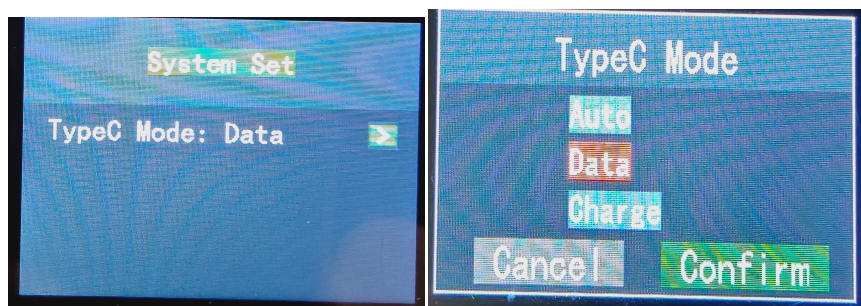


- ① Local web, select to view the local web QR code.
- ② Spark cloud, select to view the Spark cloud web QR code.
- ③ After the account is logged in, the user account option will appear. Select to view the account, device data, user data, storage and other information.
- ④ After the account is logged in, the logout option will appear. Select to log out of the current account.

3.1.4 System settings page



- ①Terminal and Web language display, select to change between Chinese and English.
- ②Current screen brightness, select to change screen brightness(level:1~9).
- ③Screen lock, select to set screen lock switch and lock cycle 1~10 minutes.
- ④Device information, select to view model, serial number, hardware version, software version, etc.
- ⑤Factory Restoration, select to restore to factory settings.



⑥Type-C Mode:

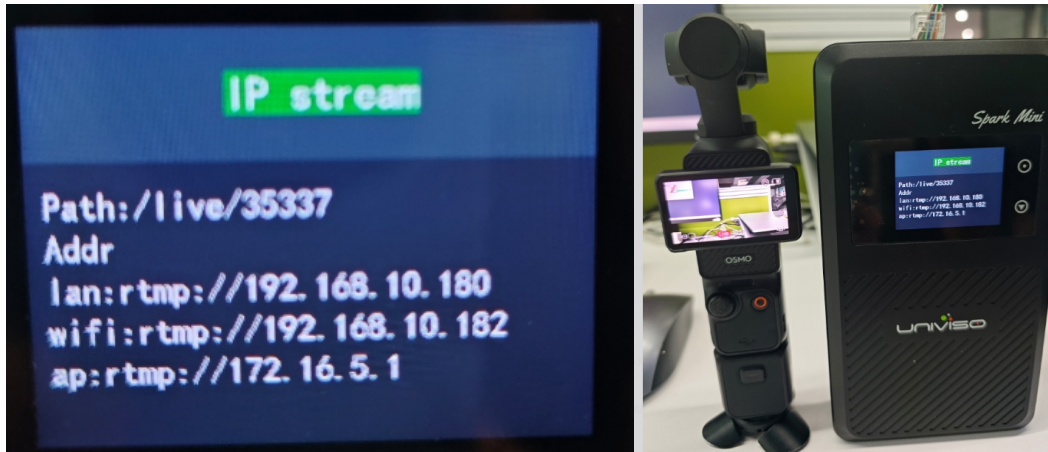
Auto:terminal will automatically negotiate and select charging or data transmission mode

Data:terminal will only transmit audio and video data, no charging itself

Charge:The terminal will only charging itself

3.1.5 IP stream page

The IP Input (RTMP only) feature means that the spark-mini supports providing an AP Wi-Fi network for IP cameras while also supplying an RTMP push URL. Once the IP camera is configured with this URL and starts live streaming, the spark-mini will capture the RTMP stream and can further distribute the rtmp stream.As shows below:



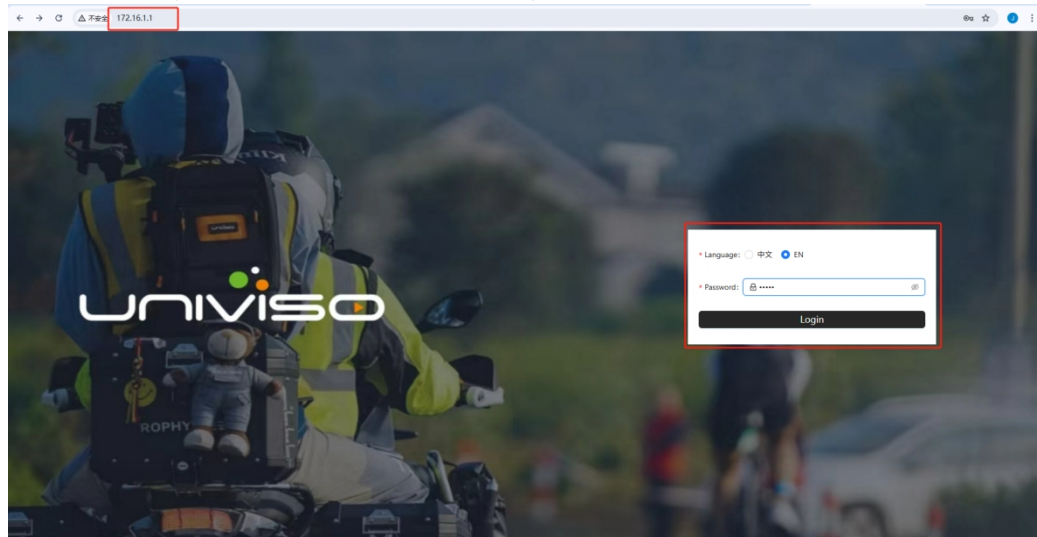
Note: The RTMP push URL under the LAN option is only applicable when the IP camera and the spark-mini are on the same local network. It is recommended to enable and connect to the 5G AP Wi-Fi first. The screenshot above shows the DJI Pocket 3 push rtmp streaming to the spark-mini (With AP URL).

3.2 Local Web login and page introduction

3.2.1 Login method

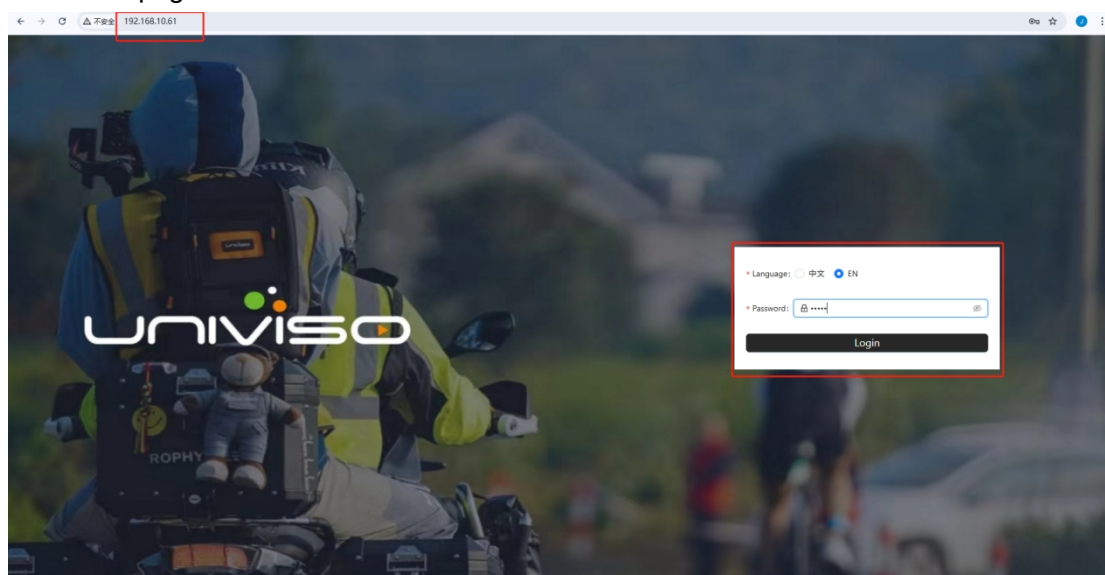
The local Web login methods are as follows:

① The access device first connects to the terminal's AP hotspot, then uses the access device's web browser to scan the local Web QR code on the terminal or directly enters 172.16.1.1 in the browser, and the login page pops up. Enter the default password: admin for the first login to enter the local Web page.



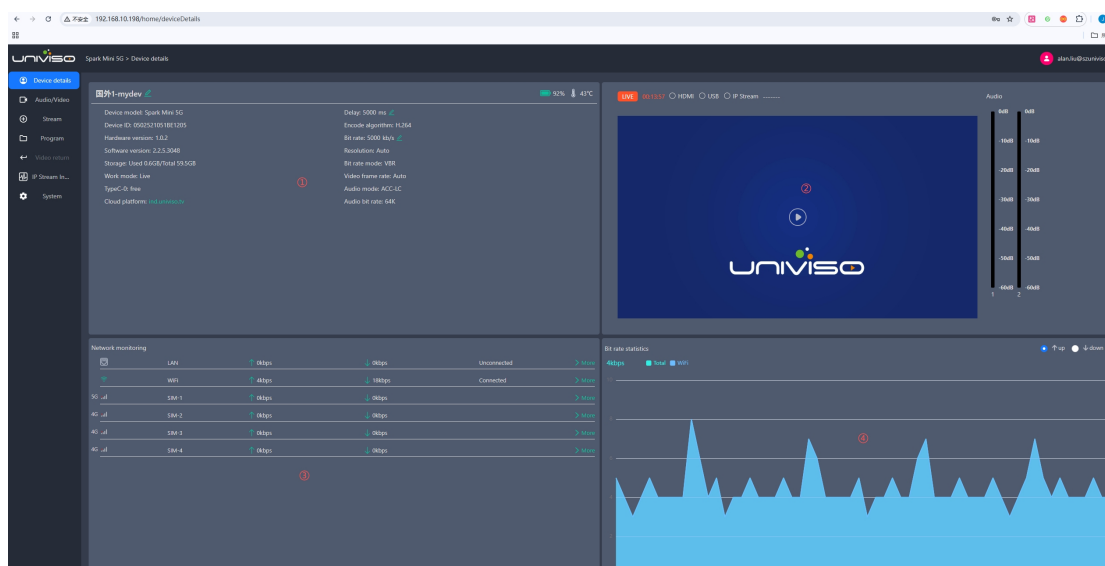
② The terminal and the access device are in the same LAN,
 a. The terminal is wired to the LAN, and the access device uses the web browser to enter the IP address displayed on the terminal's local network page LAN, and the login page pops up. Enter the default password admin for the first login to enter the local Web page.
 b. The terminal is wirelessly connected to the LAN, and the access device uses the web browser to enter the IP address displayed on the terminal's local network page WiFi, and

the login page pops up. Enter the default password admin for the first login to enter the local Web page.



3.2.2 Page introduction

(1) Device details



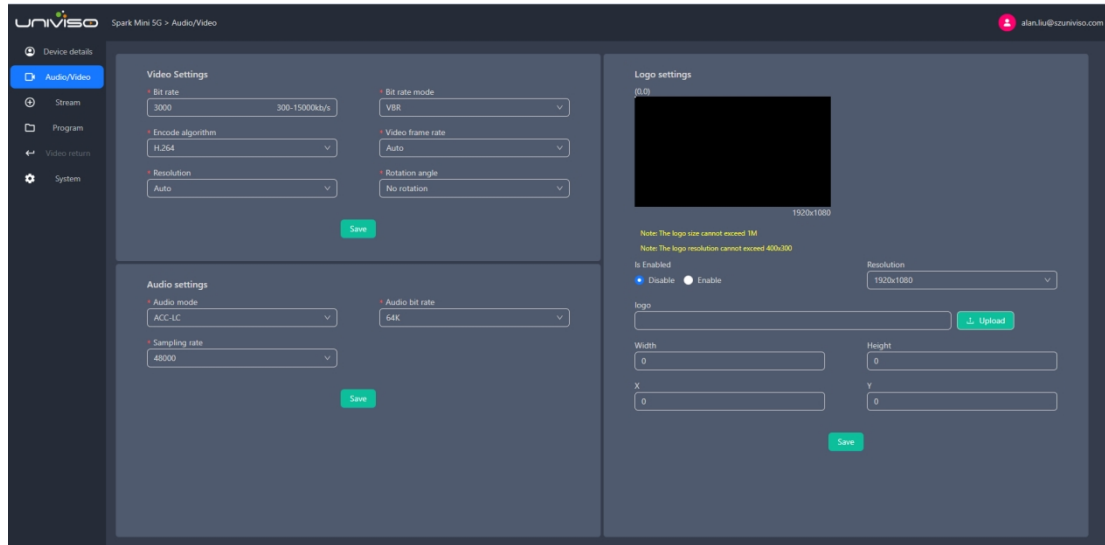
① In the device information section, you can view device-related information, modify the device name, transmission delay, encoding bit rate, etc.

② In the terminal preview section, you can view the screen of the connected terminal. When the connected device is a USB camera, you can control and set the PTZ-related parameters.

③ In the network monitoring section, you can view the transmission status of each link, set to open or close the link, set hotspot-related parameters, connect to WiFi, restart the link, set APN, etc.

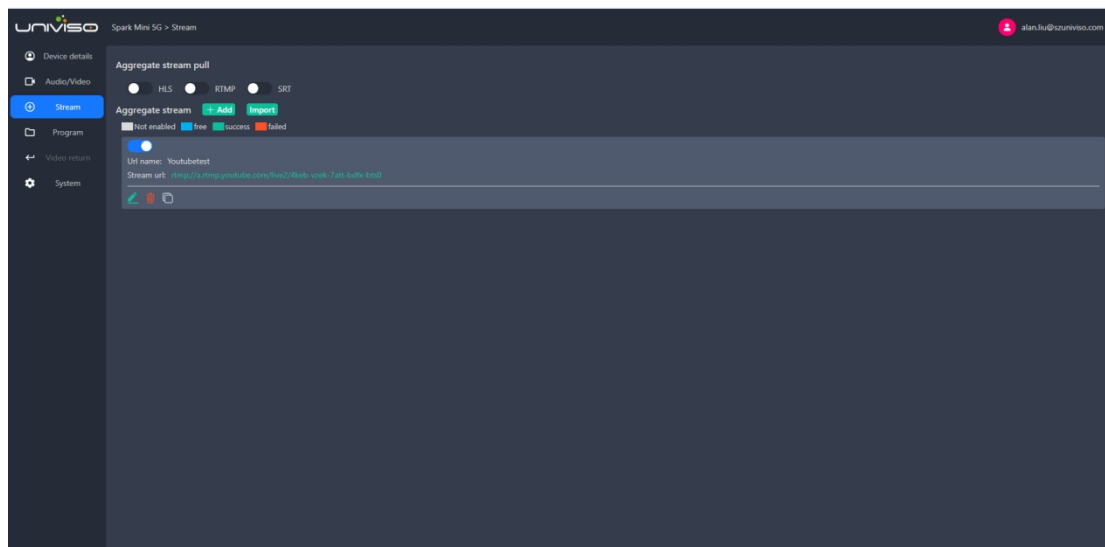
④ In the bit rate statistics section, you can view the link status.

(2) Audio and video settings



- ① Video settings section, you can set the encoding bit rate, encoding algorithm, bit rate mode, resolution, video frame rate, rotation angle, etc.
- ② Audio settings section, you can set the audio mode, audio bit rate, sampling rate, etc.
- ③ Logo settings, you can set the logo parameters

(3) Push and pull stream settings



Push stream: Click the "+Add" button, fill in the Url name, the correct Stream url, and then click the OK button.

Note: Different Stream url font colors represent different streaming status, as follows:

Not enabled: push stream function is not enabled, font display: gray

free: push stream is idle, font display: blue

success: push stream is successful, font display: green

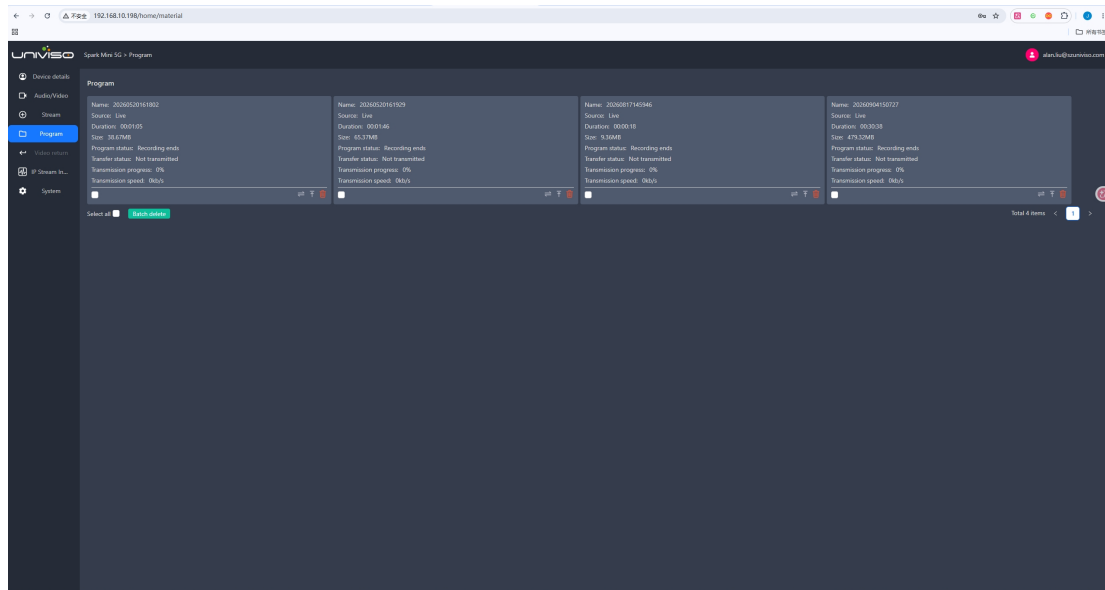
failed: push stream failed, font display: red

Pull stream: Enable the corresponding stream protocol button according to actual needs

Note: The local web page cannot copy the pull stream address temporarily, please

operate on the spark mini cloud platform

(4) Program management

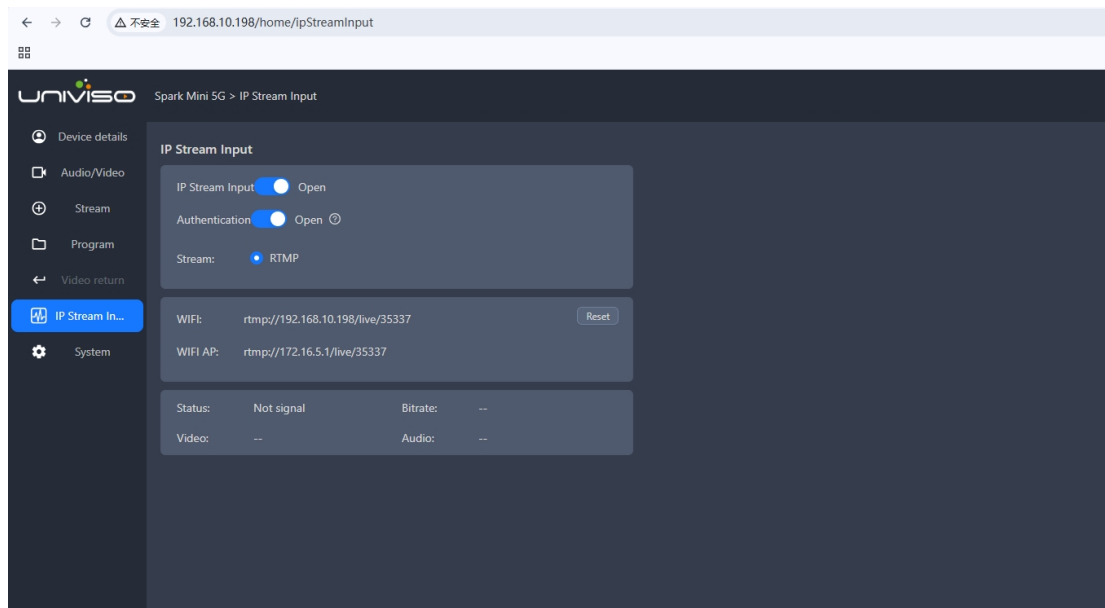


You can upload the audio and video files recorded by the terminal to the cloud server, or delete the recorded files.

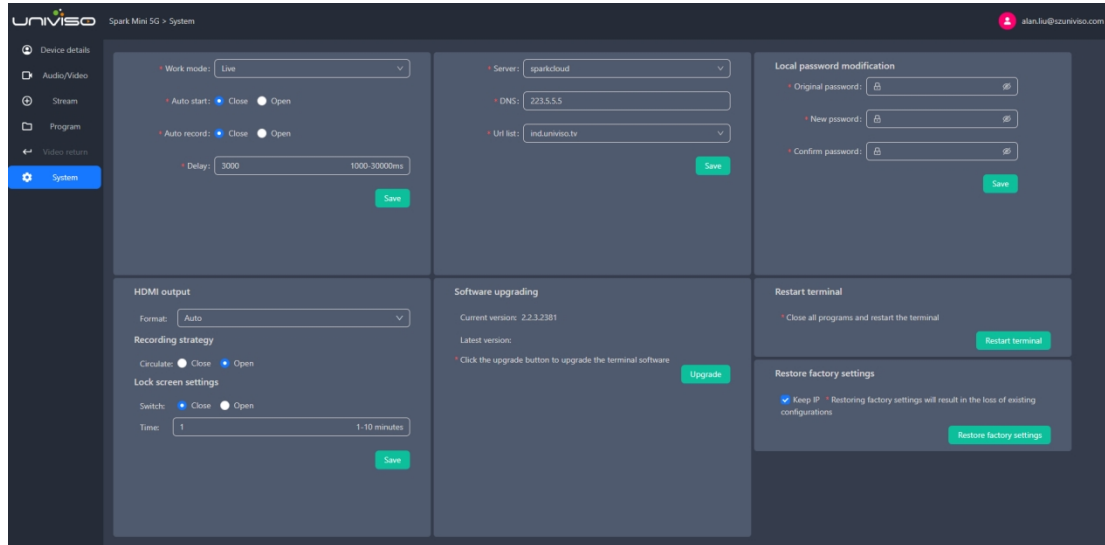
Note: In live + auto record mode: The recorded file can only be transferred to the cloud server when the live broadcast is not turned on, and the local web will automatically delete the file after the complete transfer is successful.

In Record mode: the recorded files will be directly transferred to the cloud server.

(5) IP stream input



(6) System settings



①Working mode: Live mode or Record mode.

Auto start: After it is turned on, the terminal will start live broadcast by default;

Auto record: After it is turned on, the terminal will automatically record the audio and video signals to the terminal when it starts live broadcast, which can be viewed on the program management page;

Transmission delay: The default is 3000ms, and the adjustable range is 1000-30000ms.

②Server login platform: The default is ind.univiso.tv

③Local password modification: The login password of the local Web can be modified.

④HDMI output: The loop-out format can be modified;

Recording strategy: You can set whether the terminal records in a loop;

Lock screen setting: You can set the lock screen to be turned on or off and the lock screen time (1~10 minutes). After the lock screen, click the confirmation button on the terminal to confirm the exit of the lock screen.

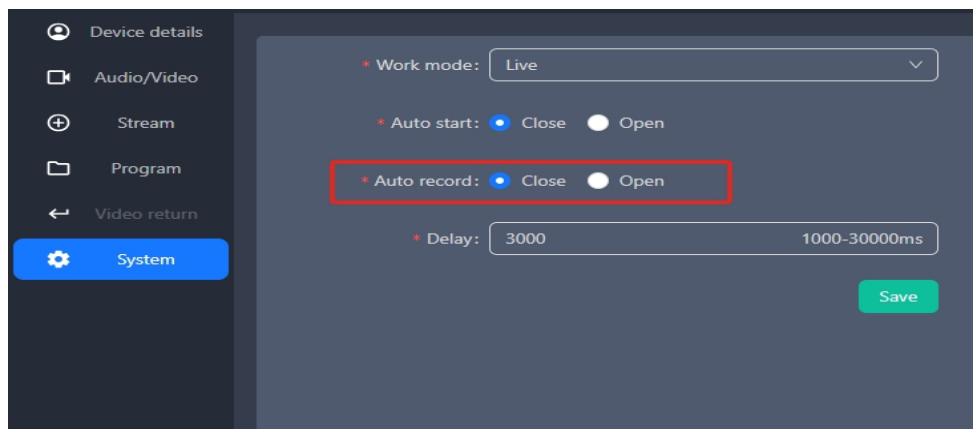
⑤Software upgrade, click the "Upgrade" button, and the terminal can be upgraded to the latest software version.

⑥Restart terminal: Control the terminal to restart.

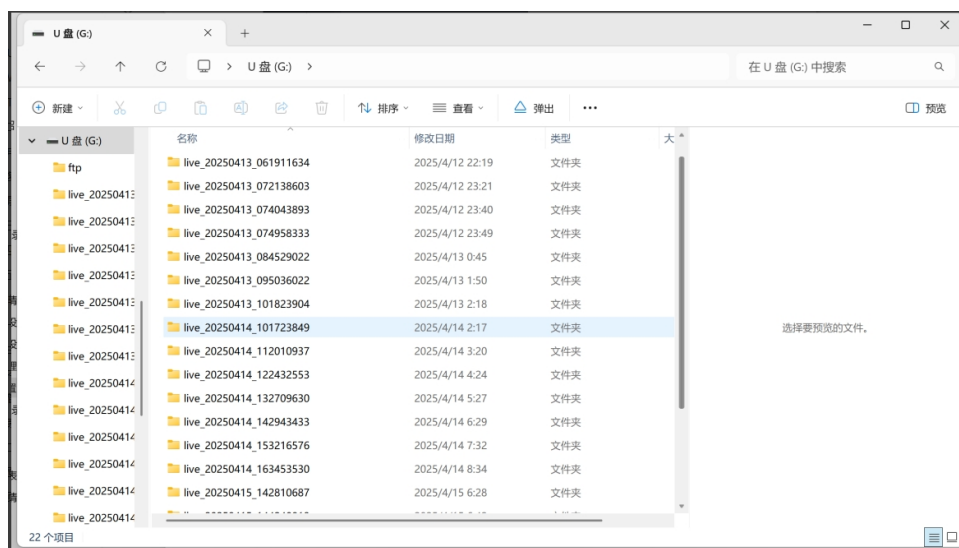
⑦Restore factory settings: IP can be retained.

3.2.3 Local recording and external TF card file reading

Enable Auto record. When the terminal starts live broadcast, it will automatically record the live broadcast file.(It is close by default)



After the TF card is removed, you can use the card reader to see the files recorded in the terminal on the computer. The recorded files are named: live+date+time. After opening the folder, find the "data" file, rename the file "data.ts", and you can directly open the recorded files. If the player does not support TS format files, it will display "open failed". Please use a player that supports TS format to open the file.



3.3 Cloud Web login and page introduction

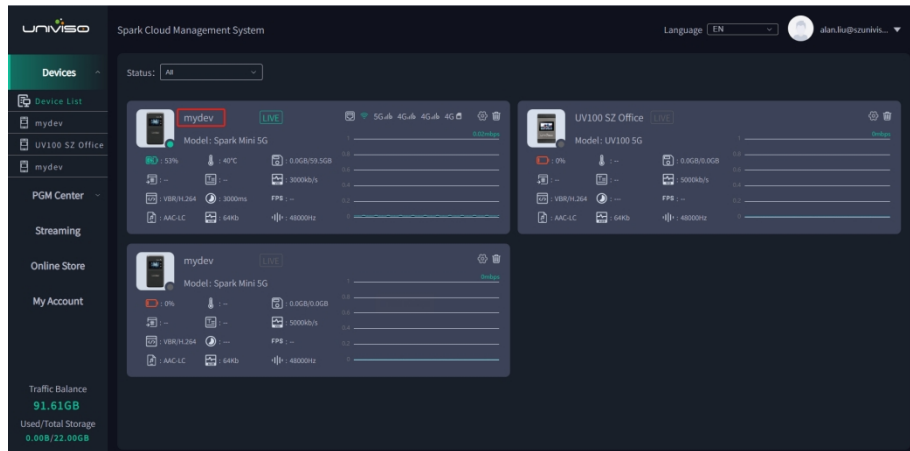
3.3.1 Login method

- ① Click the confirm button directly on the terminal home page. If the terminal has network access, a cloud web login QR code will pop up. Scan the code and log in to the cloud platform account directly to log in successfully.
- ② In the terminal management page, enter Spark Cloud, and a cloud web login QR code will pop up. Scan the code and log in to the account directly to log in successfully. Note: If you have not registered an account after scanning the code, please register the account successfully first, then scan the code again to log in.

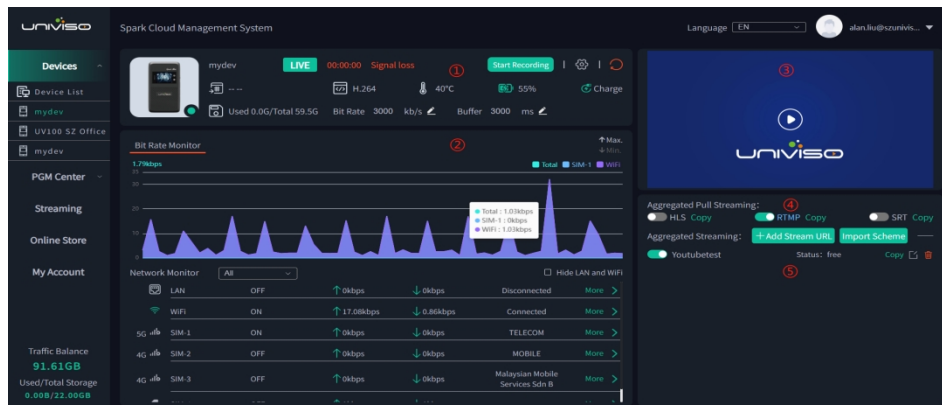
3.3.2 Device management introduction

(1) Device List

After successfully logging in the Spark Cloud Platform account, the first thing you see is the device list, where you can see all the terminals logged in the same account and the corresponding terminal status preview. Click the corresponding terminal to enter the device details. Note: The default device name of spark-mini is: mydev



(2) Device Details



In the device details page, you can view and control the relevant parameters of the terminal. The details are as follows:

① Device parameter control section:

- Spark Mini** : Device name
- LIVE** : Working status and start and stop live control
- Start Recording** : Cloud Recording button
- Settings** : Terminal parameter modification button
- Refresh** : Terminal restart button
- HDMI 1080P60** : Input signal source format
- H.264** : Encoding Mode
- 41°C** : Current CPU temperature
- 67%** : Current remaining battery level
- Free** : Type-C interface status
- Used 0.0G/Total 59.5G** : Terminal storage capacity
- Bit Rate 3000 kb/s** : Current bitrate and edit button
- Buffer 3000 ms** : Current buffer time and edit button

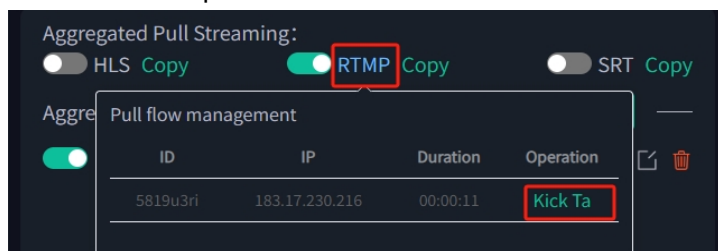
② Bitrate statistics and network status section:

You can view the current bitrate statistics and the status of each link, control the connection status of each link, **More >** and control the link switch, network mode, and link restart.

③ Image preview section: You can preview the images sent back to the cloud server. When the input source is a USB camera, **Camera** button will appear and it can control the gimbal related parameters.

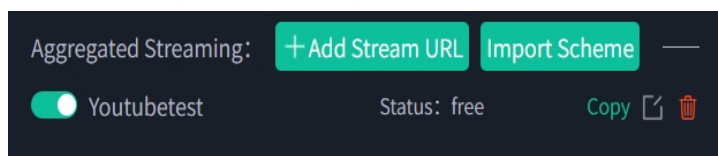
④ Aggregation Pull Stream Section:

You can enable the pull stream function of different protocols and copy the pull stream address to the clipboard. One protocol can pull up to four streams at the same time. After opening, click the selected protocol, the current number of stream pullers will be displayed, and the stream pullers can be kicked out based on the IP.



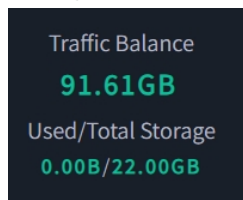
⑤ Aggregation Push Stream Section:

You can add push stream address and transmit the image sent back to the server to the corresponding stream platform. Up to four stream channels can be performed simultaneously. The import plan is the push stream address plan set up in advance for the account, and you can quickly select and add the push stream address.



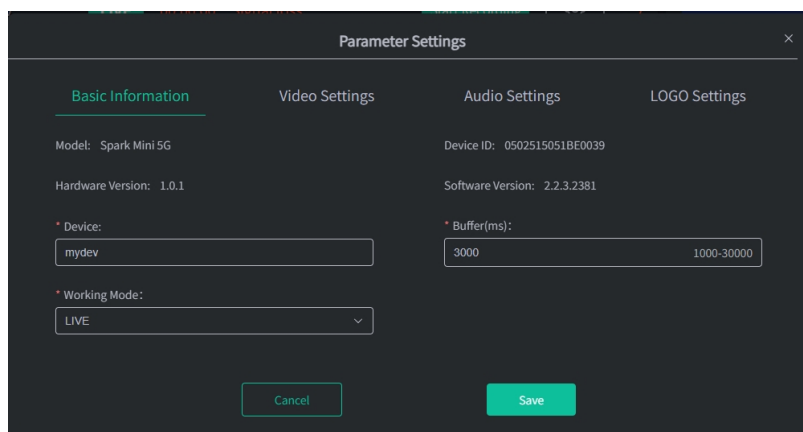
Click the Add Stream URL button, and the Add Address bar will pop up. Just follow the steps to add it. After adding, you can control the streaming switch, modify parameters, etc.

⑥ Account traffic viewing section: You can view the remaining account traffic and cloud storage space status.



3.3.3 Basic information

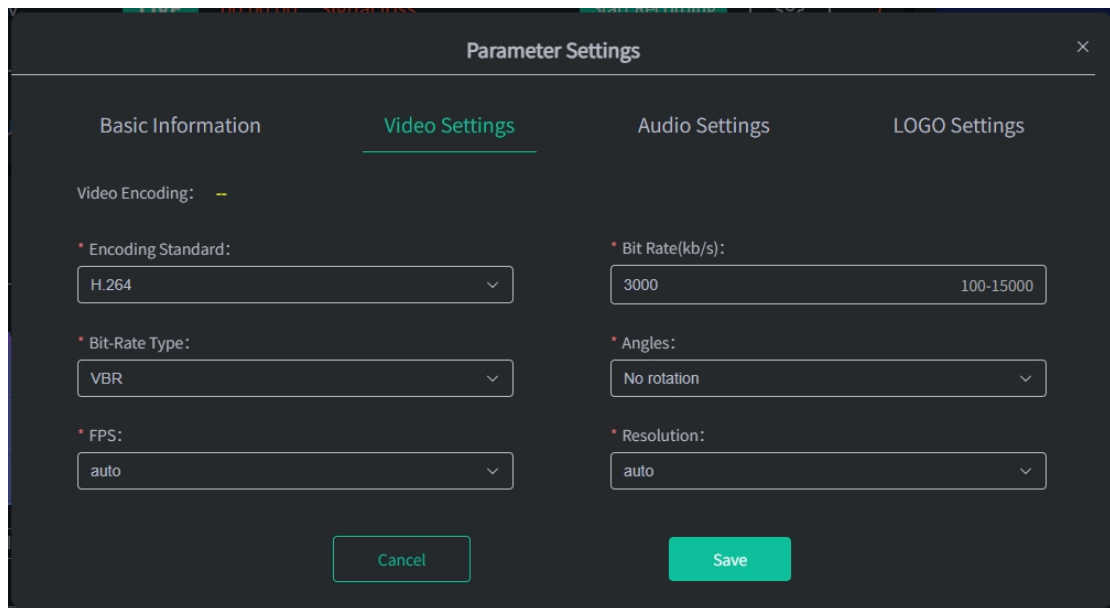
After clicking the terminal parameter modify button  , you can view and set terminal related parameters.



- ① Device name: You can customize the terminal name.
- ② Working mode: Live mode or Record mode.
- ③ Buffer: Delay setting for live mode, ranging from 1000-30000ms.(The default is 3000ms)

3.3.4 Video encoding settings

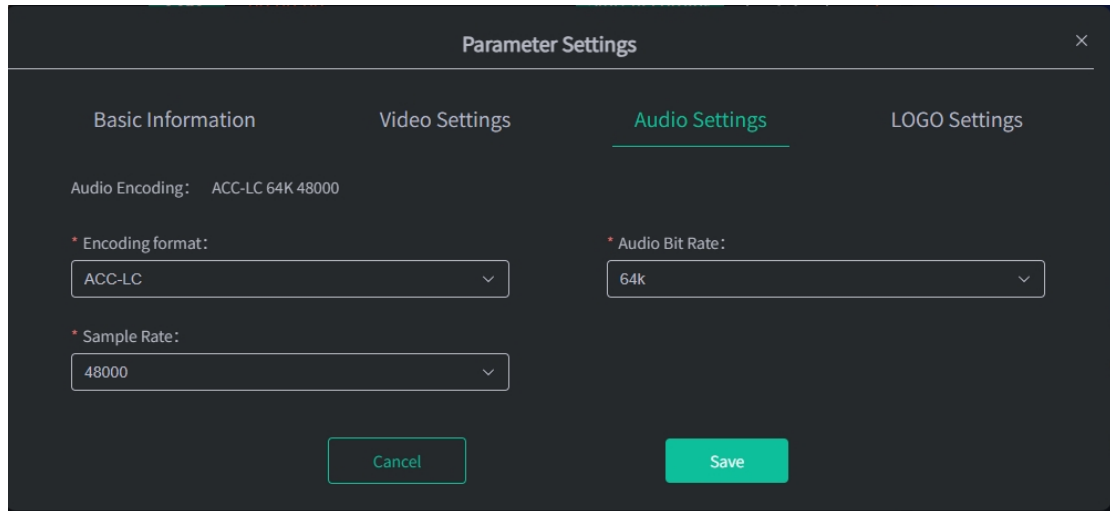
After clicking the Terminal Parameter modify button , select the Video Settings option to view and set video parameters.



- ① **Video Encoding:** 1920x1080P60: display Current encoded video format.
- ② Encoding algorithm: H.264 and H.265
- ③ Bitrate setting: range 100-15000kbps.
- ④ Bit-Rate type: VBR and CBR.
- ⑤ Angles (clockwise): no rotation, 90°, 180°, 270°
- ⑥ Frame rate: auto, 25, 29.97, 30, 50, 59.94, 60. Can encode at the same frame rate of the input source or to a lower frame rate.
- ⑦ Resolution: auto, 1920x1080, 1280x720, 720x576, 720x480, can encode at the same resolution of the input source or to a lower resolution.

3.3.5 Audio encoding settings

After clicking the Terminal Parameter modify button , select the Audio Settings option to view and set Audio parameters.



Parameter Settings

Basic Information Video Settings **Audio Settings** LOGO Settings

Audio Encoding: ACC-LC 64K 48000

* Encoding format: ACC-LC

* Audio Bit Rate: 64k

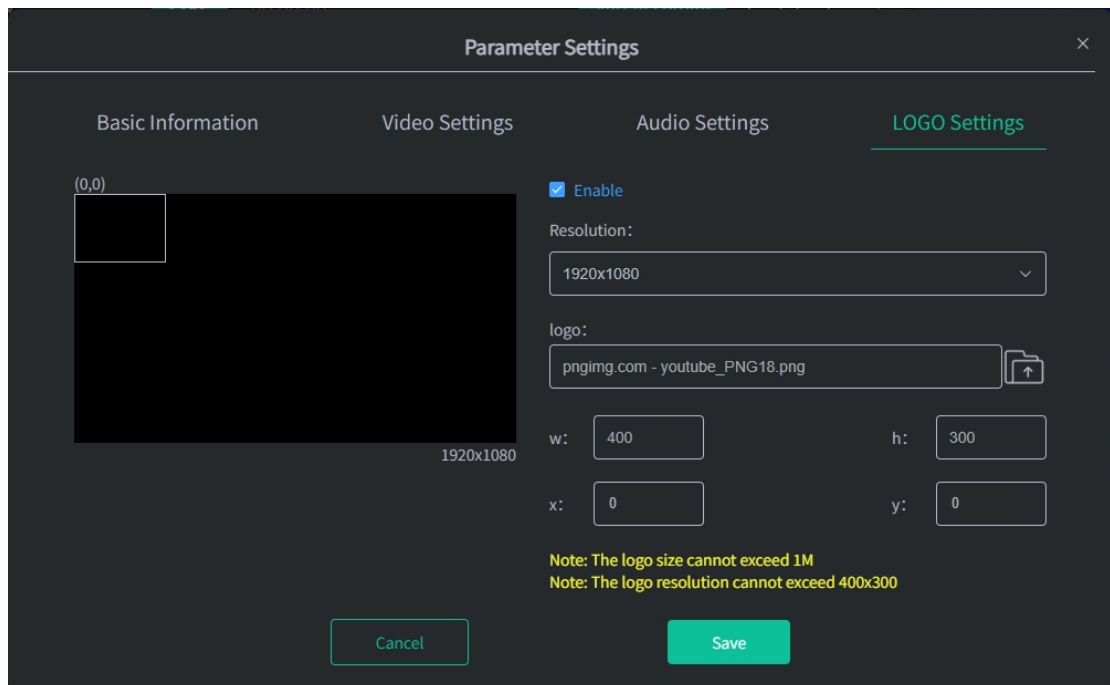
* Sample Rate: 48000

Cancel Save

- ① **Audio Encoding: ACC-LC 64K 48000**: Display current encoding audio format.
- ② Audio encoding format: ACC-LC and ACC-HE.
- ③ Audio bitrate: 64k, 128k, 192k, 256k, 320k.
- ④ Sample rate: 48000, 44100.

3.3.6 LOGO settings

After clicking the Terminal Parameter modify button , select the LOGO Settings option to view and set LOGO parameters.



Parameter Settings

Basic Information Video Settings Audio Settings **LOGO Settings**

(0,0)

☒ Enable

Resolution: 1920x1080

logo: pngimg.com - youtube_PNG18.png

w: 400 h: 300

x: 0 y: 0

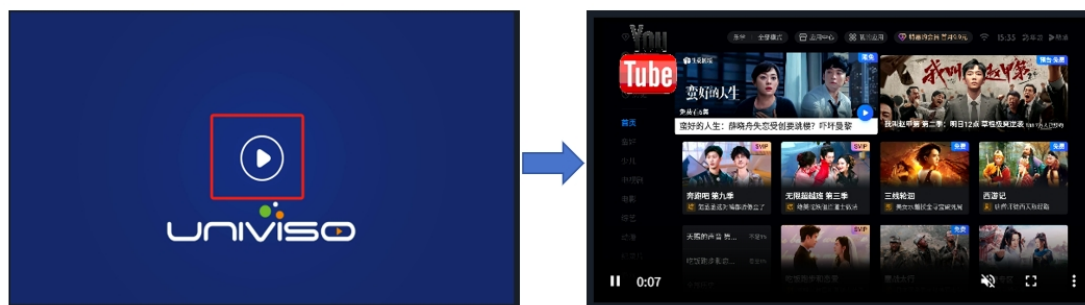
Note: The logo size cannot exceed 1M
Note: The logo resolution cannot exceed 400x300

Cancel Save

3.3.7 Preview

The preview image is the image after being transmitted back to the cloud server. The

delay is the terminal buffer time set by the user + network fluctuation delay (200-500ms).



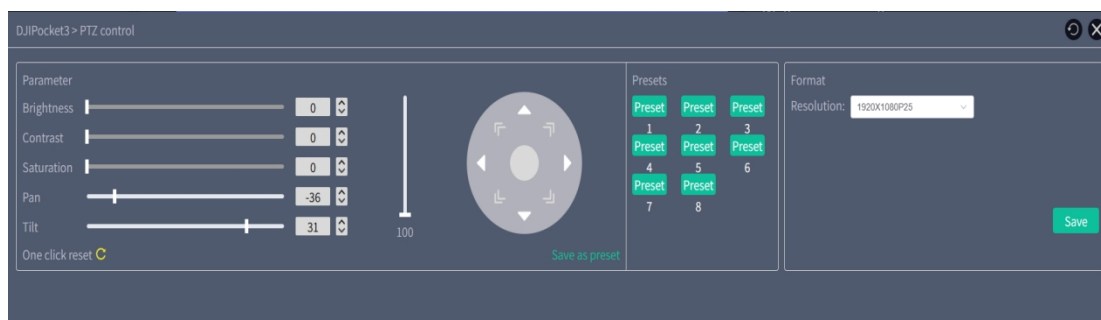
Note: The preview image will only display normal image after the terminal start live broadcast and click the play button.

3.3.8 PTZ control

Click the PTZ camera control button in the upper right corner of the preview image to set UVC camera related parameters.



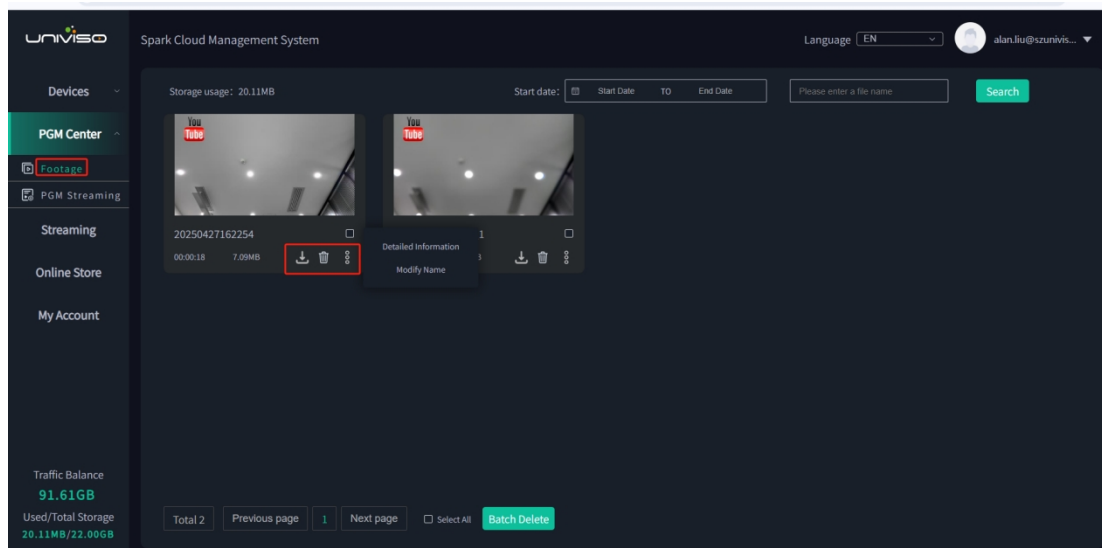
The PTZ camera parameters can be fine-tuned and 8 presets can be saved. The resolution format of the acquired signal can also be modified.



3.3.9 Program management

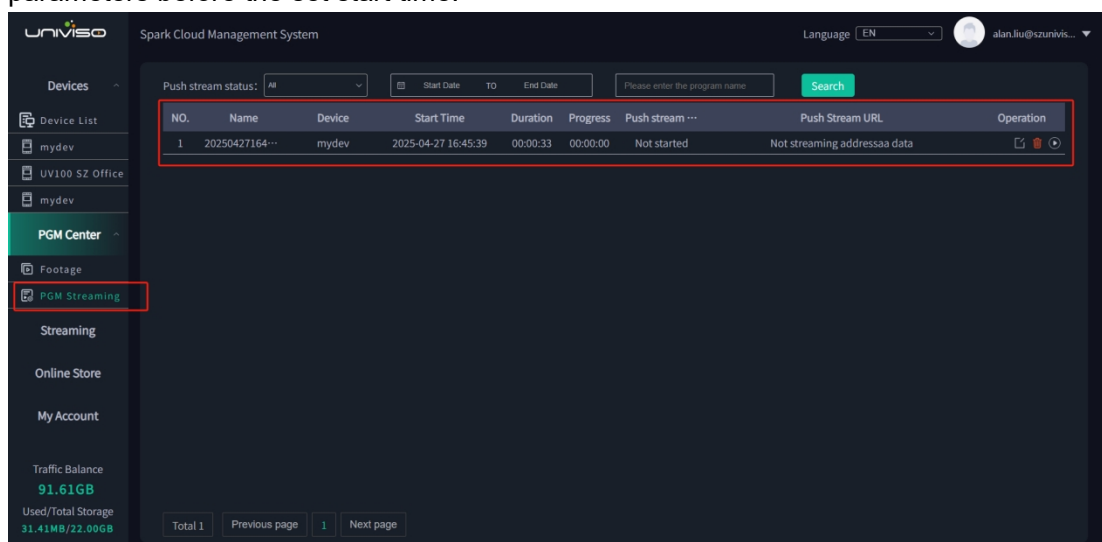
(1)Footage

On the PGM Center → Footage page, you can download, delete, and edit files that have been successfully transferred from the terminal to the cloud server.



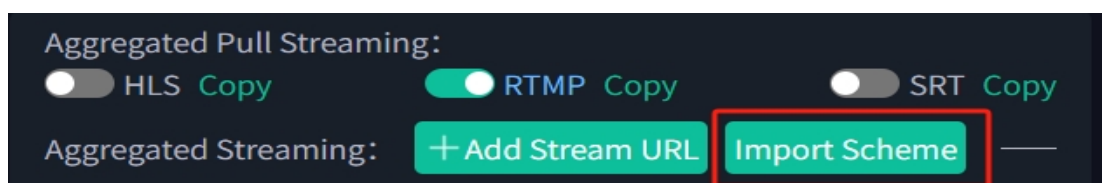
(2) Program streaming

After select the Record push stream mode, the status of the record push streaming program will be displayed in this section. You can adjust the start time and other parameters before the set start time.

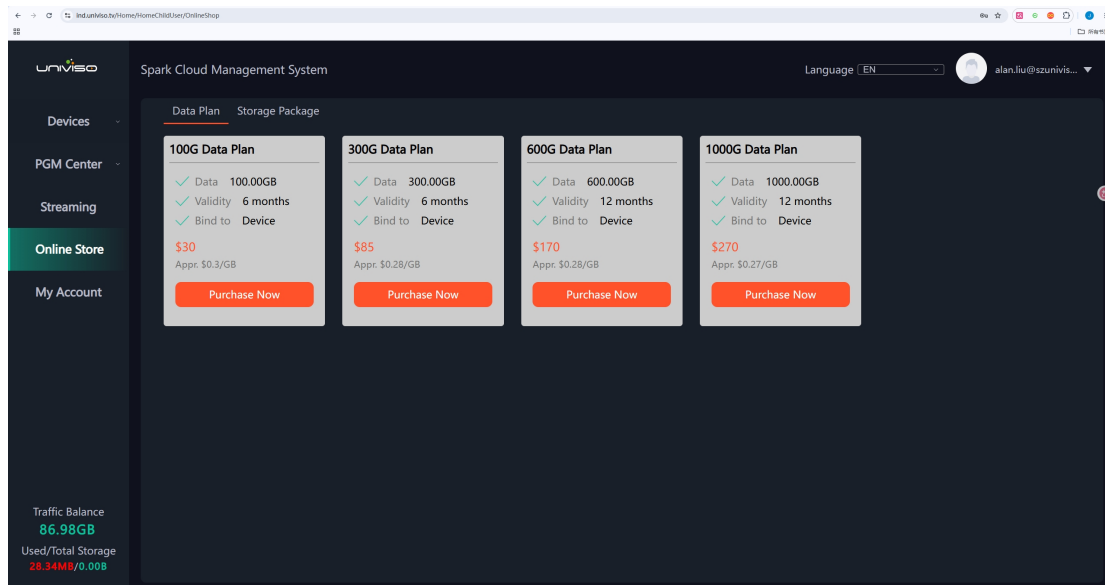


3.3.10 Push stream solution

Push stream solution allows you to save the push stream address to your account in advance. You can add up to 4 solutions. When using it, simply select the corresponding solution to import on the aggregate push stream in the device details page.



3.3.11 Online store



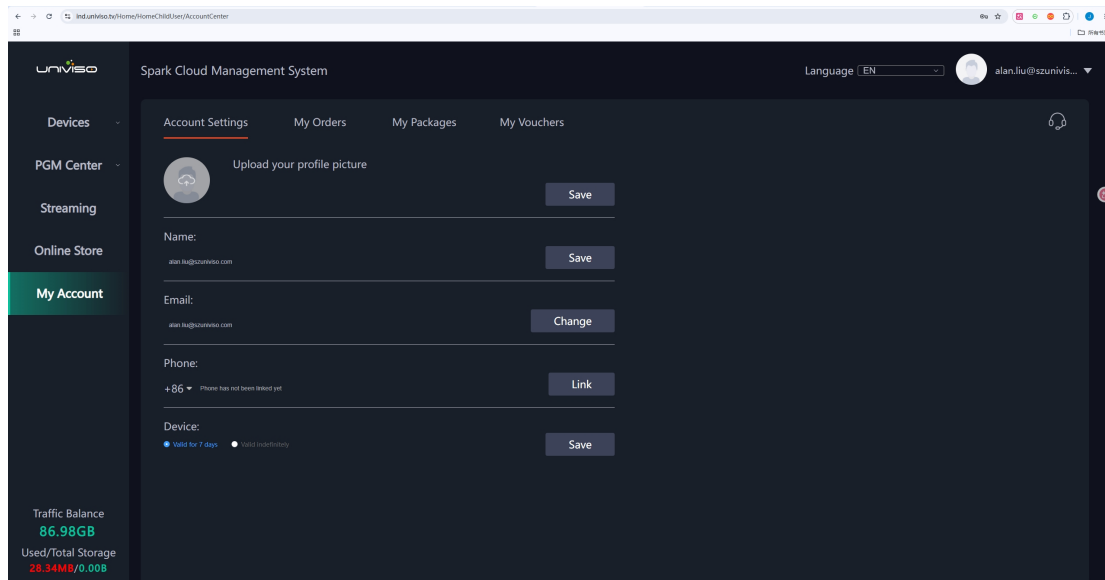
You can purchase the corresponding package on this page.

Note: In the Online Store, you can only purchase device data and account cloud storage. Device data can only be used on the device, and account data needs to be purchased separately offline in the form of voucher. If the device has both device data and account data, the device data will be deducted first and then the account data.

3.3.12 My account

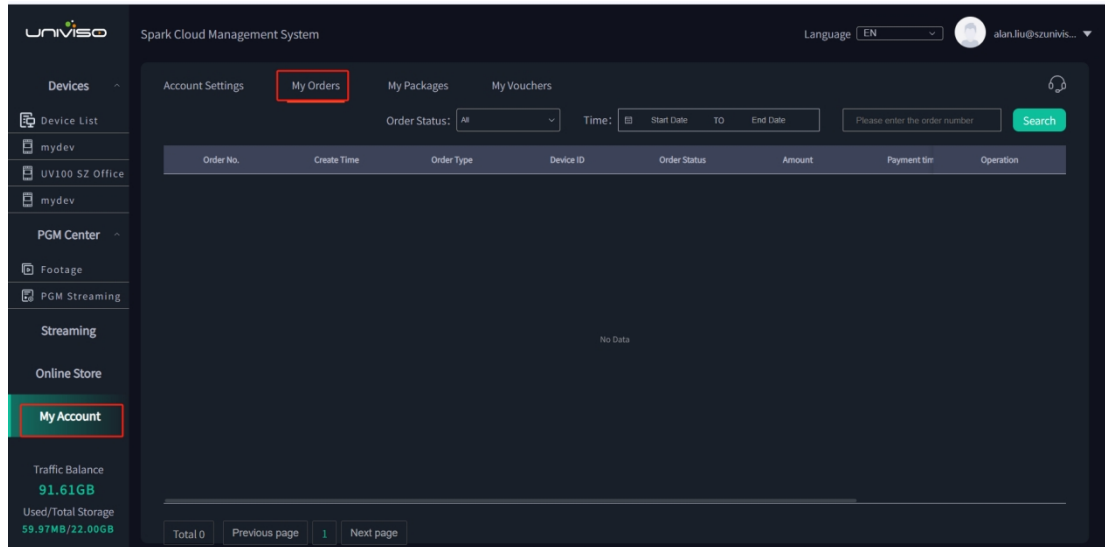
(1) Account Settings

You can modify account related information



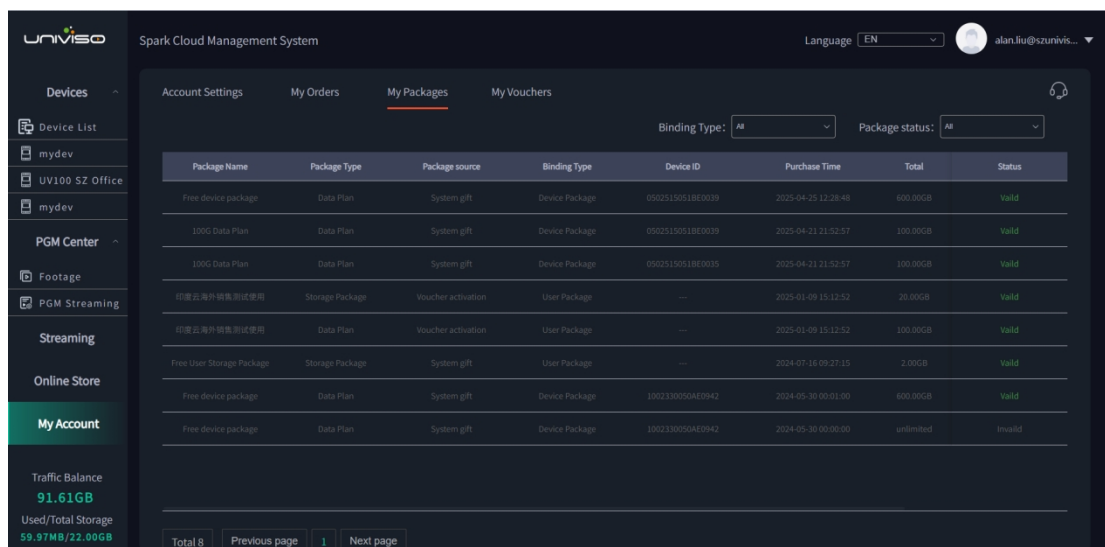
(2) My Orders

You can view the purchased packages.



(3) My Packages

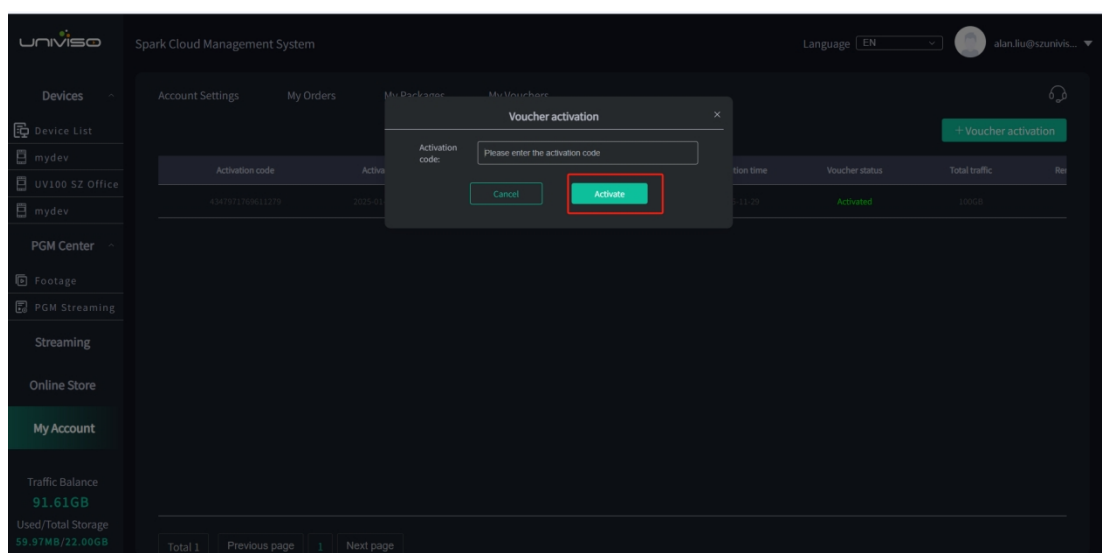
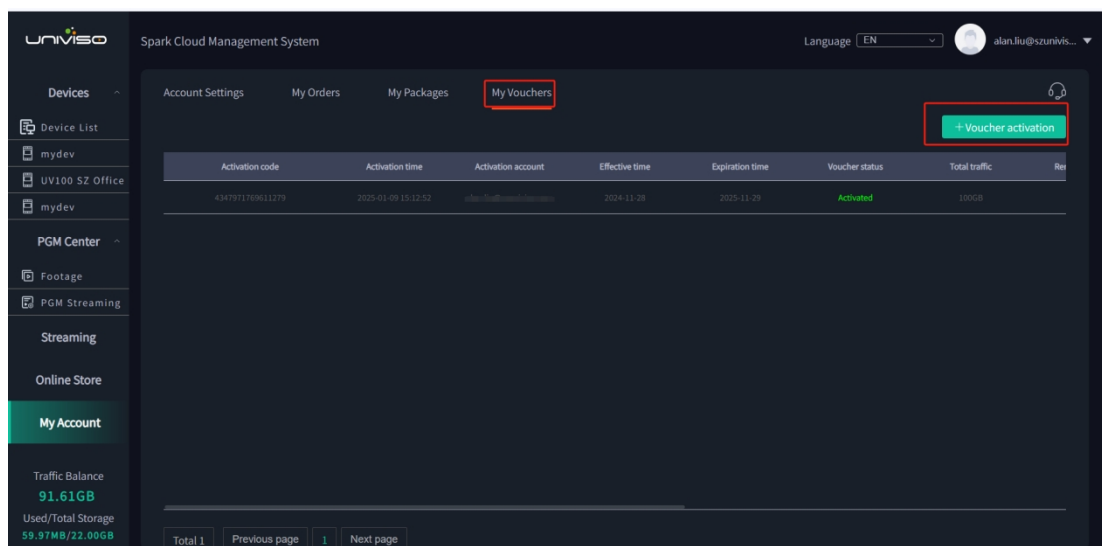
You can check the usage of each package on the terminal, which is counted every 15 minutes.



Package Name	Package Type	Package source	Binding Type	Device ID	Purchase Time	Total	Status
Free device package	Data Plan	System gift	Device Package	05025150518E0039	2025-04-25 12:28:48	600.00GB	Valid
100GB Data Plan	Data Plan	System gift	Device Package	05025150518E0039	2025-04-21 21:52:57	100.00GB	Valid
100GB Data Plan	Data Plan	System gift	Device Package	05025150518E0035	2025-04-21 21:52:57	100.00GB	Valid
印度云海外销售测试使用	Storage Package	Voucher activation	User Package	---	2025-01-09 15:12:52	20.00GB	Valid
印度云海外销售测试使用	Data Plan	Voucher activation	User Package	---	2025-01-09 15:12:52	100.00GB	Valid
Free User Storage Package	Storage Package	System gift	User Package	---	2024-07-18 09:27:15	2.00GB	Valid
Free device package	Data Plan	System gift	Device Package	18021300500A10942	2024-05-30 00:01:00	600.00GB	Valid
Free device package	Data Plan	System gift	Device Package	18021300500A10942	2024-05-30 00:00:00	unlimited	Invalid

(4) My Vouchers

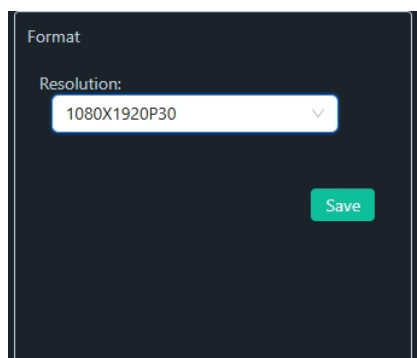
Click the "+Voucher activation" button in the upper right corner, enter the Voucher code, and then click the activate button to successfully activate it.



3.4 Pocket3 connection FAQ

(1) Horizontal and vertical screen live broadcast

The resolution in the standard configuration can be adjusted to a vertical screen resolution, such as 1080x1920P30. If there is no vertical screen resolution, it means that the UVC protocol of the camera does not support vertical screen resolution image output.



(2) The impact of Pocket3's selfie mirroring function on UVC image output

Horizontal/vertical screen	pocket3 selfie mirror function off			pocket3 selfie mirror function on		
	pocket3 screen	Image Preview	Image Loop Out	pocket3 screen	Image Preview	Image Loop Out
Boot forward	normal	normal	normal	normal	normal	normal
Flip selfie	Mirror	normal	normal	Mirror	Mirror	Mirror

Note 1: The Pocket3 selfie mirroring function can be turned on or off in the Pocket3 settings.
Note 2: The flip selfie operation is to click the Pocket3 joystick three times in a row or click the flip button in the lower right corner of the Pocket3 screen.

(3) Regarding the occasional issue where the Type-C port of the terminal sometimes cannot actively charge the Pocket 3:

It is recommended to select the "data" mode in the system settings of the terminal to resolve this occasional issue.

4. Terminal FAQ

1. Why the signal displayed when the SIM card is inserted into the mobile phone different from the signal displayed when the SIM card is inserted into the terminal?

Description: Why is the signal strength and format displayed on the terminal LCD sometimes inconsistent with that displayed on a mobile phone in the same environment?

(1) The antenna strategies of mobile phone and terminal is different. Signal strength is divided into signal transmission strength and signal reception strength, which correspond to the signal reception capability and transmission capability of the device respectively. The signal strength displayed on the terminal and the mobile phone is the signal reception strength, that is, the strength of the signal received from the base station, while the signal transmission strength, that is, the signal strength from the terminal to the base station, will not be fed back by the base station side, so it cannot be displayed on the terminal.

(2) The antenna design of mobile phone and terminal is different. Spark Mini, as a link aggregation device, uses more uplink channels, that is, it relies more on the signal transmission capability. Therefore, when designing the antenna matrix, we try to increase the transmission antenna capacity while maintaining the balance of the receiving antenna. At the same time, in order to reduce the mutual influence caused by too many antennas, some mini receiving antennas will be removed, which will also make the received signal look weak, but this generally does not affect the normal operation of the terminal.

2. SIM cards shows dial failed

Description: The web or cloud platform shows that the SIM card dialing failed. How to solve it?

(1) You can insert the SIM card of the mobile phone you are using into the card slot where the dialing failed to work and check whether the dialing can be made. If the call can be made, it proves that there is no problem with the card slot.

(2) Determine whether the SIM card is a mobile phone sim card or an IoT sim card. If it is a mobile phone card, please check whether the mobile phone sim card is in arrears and whether it can be used normally when inserted into the mobile phone. If it can be used normally, please turn off the terminal, then try inserting the SIM card and then turn it on. If it is an IoT sim card (data card), the IoT sim card may be locked due to changing the device/card slot or cross-regional card lock. Please contact the sim card dealer to check the IoT sim card status and unlock the IoT sim card.