FeiGong transmission

User's Guide

v2.0.0

CUAV 雷迅创新

CUAV TECH INC.,LTD

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1 Software installation and program startup

After the software is downloaded successfully, double-click the installation package and install it according to the system prompts. After the installation is successful, a "Start FeiGong Transmission" column will be added to the "Start" menu, and a "FeiGong Transmission" column will also be created on the desktop. A quick launch item for "FeiGong Transmission" (FeiGong Transmission). Double-click the "FeiGong Transmission" shortcut on the desktop or click the "Start FeiGong Transmission" column in the "Start" menu to start the program. Figure 1 shows the login interface after startup.

Figure 1

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2 User registration

The first-time user needs to register. By clicking the "click to register" button in the upper left corner of the login interface (Figure 1), you can enter the registration interface (Figure 2). After filling in the registered mobile phone or email address and password, click "Apply for verification code" "button, the verification code will be sent to the mobile phone or email address, fill in the verification code, and read the "Privacy Policy and Use Statement", click "Read and Accept" to confirm, click "Register and Login "button to complete registration and login. (Note: The format of the account number is: mobile phone number or e-mail address, and the password format is number, uppercase, lowercase, symbols, choose 3 of these formats, with a minimum of 8 digits and a maximum of 16 digits).

Figure 2

When the input format is wrong or the registration fails, the corresponding error message will be displayed on the interface,shown as Figure 3.

Figure 3

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3 User login

Fill in the corresponding user name and password in the login interface (Figure 4), and click Login. If you need to log in automatically next time, select the option "Auto log in next time" and log in again. When the login fails, a prompt message will be displayed (Figure 5).

Correspondence to the error message

- Login failure, wrong account or password: Check if the account or password is correct

  Username：The email/phone number filled in during registration

  Password：The password filled in during registration

  Username input box：

  Password input box：

  In the password input box,click to show password,click again to hide the password.

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Figure 4

Figure 5

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4 Retrieve password

If you forget the password, click the "Retrieve Password" button in the login interface (Figure 4), and the password recovery interface (Figure 6) will appear. After filling in the mobile phone or email address of the corresponding account and the modified password, click "Apply Verification Code", the verification code will be sent to the corresponding mobile phone or email. Fill in the received verification code and click "modify and log in" to complete the modification. (Note: The password format is number, uppercase, lowercase, and symbol, select three of these formats, at least 8 digits, and maximum 16 digits).

Correspondence to the error message

- **Email address is not registered**：Check whether the mailbox is wrong. The error is caused by the unregistered mailbox.
- **Mobile phone number is not registered**：Check whether the mobile phone number is wrong. The error is caused by the unregistered mobile phone number.
- **The verification code application interval is too short**：It takes less than 60 seconds to apply for the verification code twice, just wait 60 seconds and try again.
- **Modify password verification code does not match**：The verification code is 6 digits, check whether there errors。
- **Forgot password and failed to change password**：Check if the password format is wrong.

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Figure 6

When the corresponding mailbox or mobile phone is not registered, the format is wrong, or the password format is wrong, the error message will be displayed to the interface,shown as Figure 7.

Figure 7

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5 Main interface

When the login is complete, the main interface will appear, you can click on the upper left corner The option menu pops up (Figure 8), click on the corresponding option to enter different functional interfaces.

Figure 8

6 Team management

Click the option menu in the main interface and select the "Team Management" option, and the team management interface will appear (Figure 9). Click on the upper right corner ☰ The option menu pops up (Figure 10) to create, modify the team name, exit or disband the team.

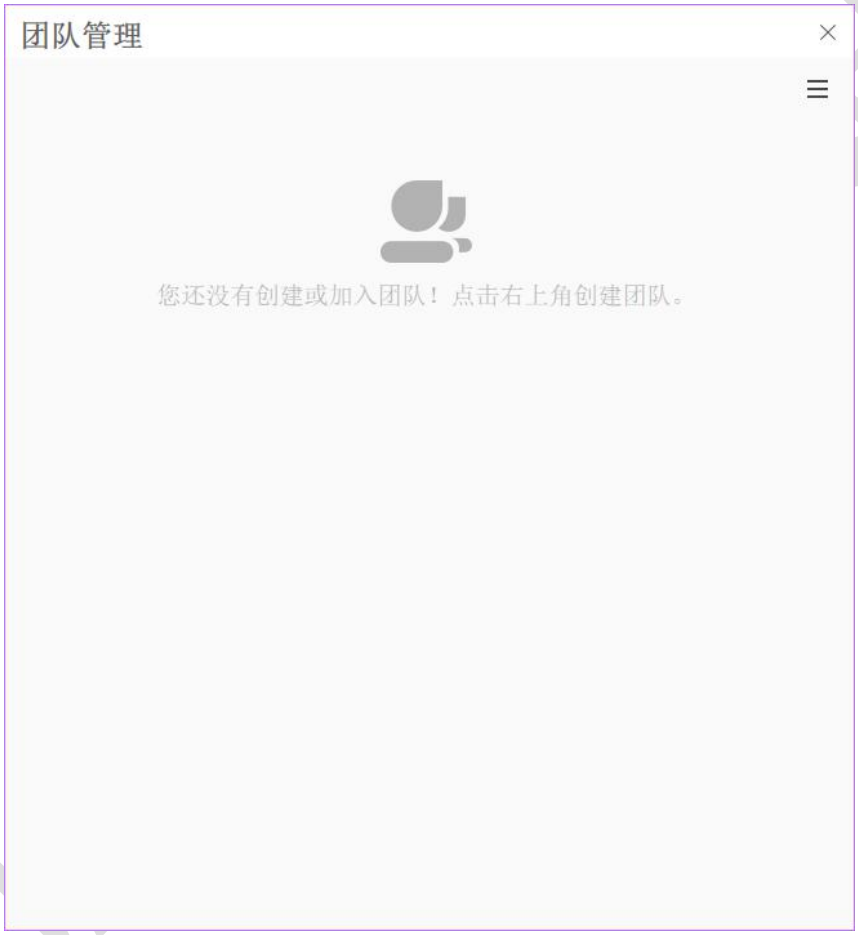

Figure 9

Figure 10

6.1 Create a team

After clicking the "Create New Team" option, a creation window will pop up (Figure 11). After filling in the corresponding team name, click the "Create" button to create a new team.If the creation is completed, the corresponding team name tab will appear (Figure 12),Click the tab to manage the team. If the creation fails, an error message will be displayed shown as Figure 13.

Correspondence to the error message：

- **Failed to create team, team name already exists：** The name of the team already exists. You cannot create a team with the same name. Refill the team name and try again.
- **Failed to create team, the number of teams has reached the upper limit：** The number of teams created has reached the upper limit, and no more teams can be created.
- **Operation timeout：** Check whether the network is abnormal, if it is normal, the server may be abnormal.

Figure 11

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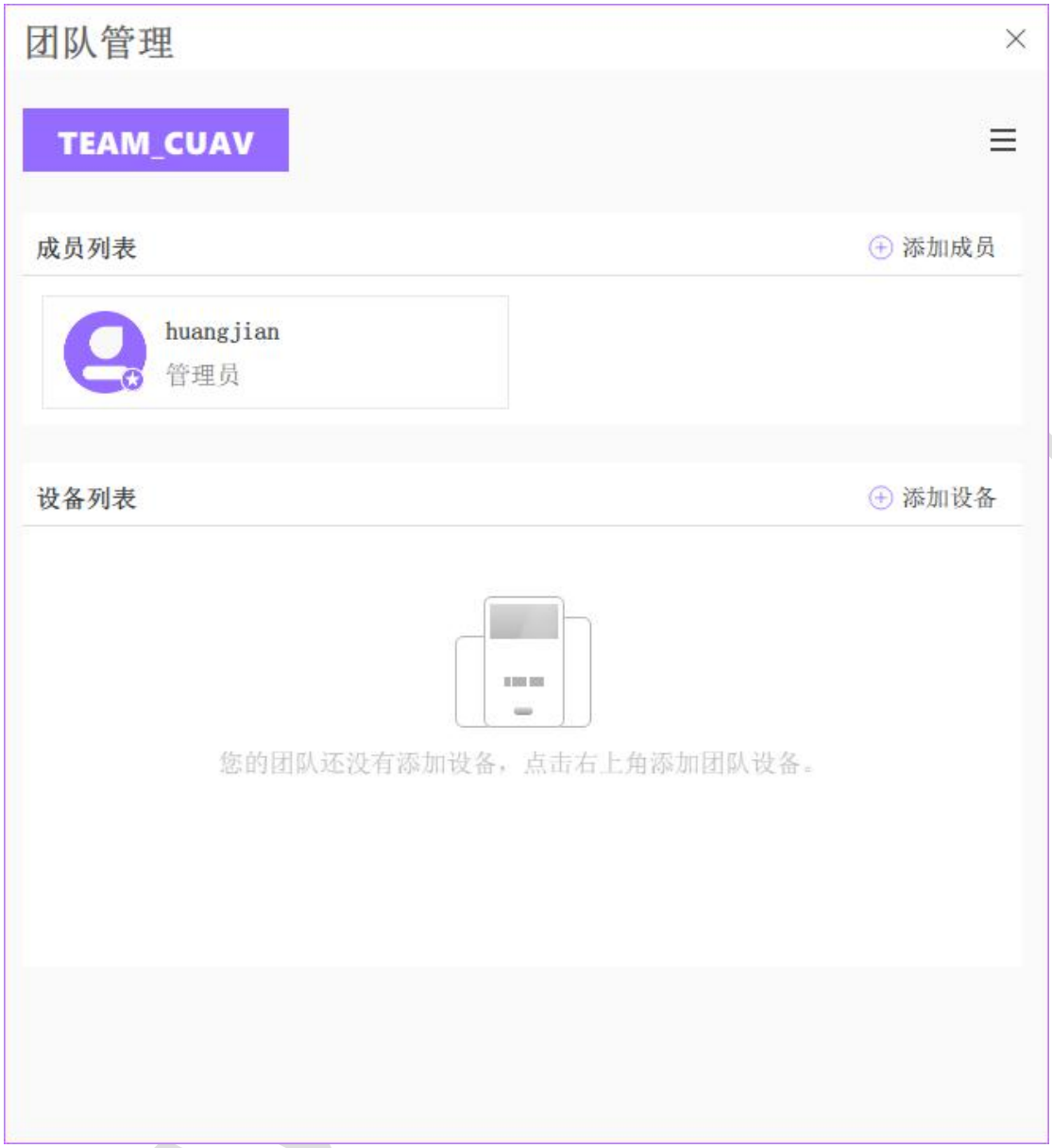

Figure 12

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Figure 13

6.2 Edit team name

In the team management interface, select the name tab of the team whose name you want to modify, and click the upper right corner to pop up the option menu,And select "Modify Team Name", the interface for modifying the team name will pop up (Figure 14), after filling in the new team name, click Modify, if successful, the team name will be modified, if the modification fails,an error message will be displayed on the interface for modifying the team name (Figure 15).

Correspondence to the error message：

- **The new and old team names cannot be the same：** The new team name cannot be the same as the current team name, fill in an new team name and try again.

- **Team name already exists：** The name of the team already exists. You cannot create a team with the same name. Refill the team name and try again.
- **Operation timeout：** Check whether the network is abnormal, if it is normal, the server may be abnormal.

Figure 14

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Figure 15

6.3 Disband/exit the team

If you need to exit the team or disband the team (administrator), you can click on the pop-up option menu in the upper right corner of the team management interface, and select "Disband Team" or "Exit Team", and a confirmation box will appear after clicking (Figure 16). If you click"Yes", then the dissolution/exit operation will be executed, if you click "No", the operation will be cancelled. If the addition fails, an error message will be displayed in the confirmation box (Figure 16).

Correspondence to the error message：

- **Operation timeout：** Check whether the network is abnormal, if it is normal, the server may be abnormal.

Figure 16

6.4 Add team member

In the team management interface, click the "Add member" button of the team, and the interface for adding members will pop up (Figure 17).After filling in the member account to be invited, click Add, the invitation will be sent (Figure 18), and then wait for the user to confirm to join. If the addition fails, an error message will be displayed in the interface for adding members (Figure 19).

Correspondence to the error message：

- **Operation timeout：** Check whether the network is abnormal, if it is normal, the server may be abnormal.
- **User does not exist：** The invited account does not exist, check whether the account is entered incorrectly.
- **User has joined the team：** The invited user has already joined the team.
- **Invitation sent, waiting for confirmation：** The invitation has been sent to the user, but the user has not yet confirmed, waiting for the user to confirm.
- **User's joined team already reach the upper limit：** The number of teams invited by users has reached the upper limit,the user can no longer be invited to join.

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Figure 17

Figure 18

Figure 19

6.5 Remove team member

In the team management interface, select the ··· in the lower right corner of the team member box to be removed in the member list of the corresponding team (Figure 20),the option menu will appear (Figure 21),select "Remove Member", a confirmation box will pop up (Figure 22), click "Yes" to remove the member, otherwise cancel the operation. After the member is successfully removed, the member will be deleted from the member list. If the removal fails, an error message will be displayed in the confirmation box (Figure 22).

Correspondence to the error message：

- **Operation timeout：**Check whether the network is abnormal, if it is normal, the server may be abnormal.

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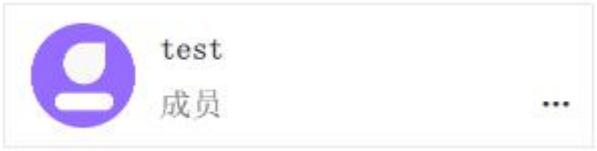

Figure 20

Figure 21

Figure 22

6.6 Add device

In the team management interface, click the "Add Device" button in the team, and the add device interface will pop up (Figure 23). After filling in the CID of the device and selecting the corresponding pilot, click bind and wait for the device side to confirm (Figure 24), the waiting timeout time is 30 seconds. If the device confirms, the device will be added to the team. After the addition is complete, the device will be added to the device list (Figure 25). If the addition fails, an error message will be displayed in the device interface (Figure 26).

Correspondence to the error message：

- **Operation timeout：**Check whether the network is abnormal, if it is normal, the server may be abnormal.
- **Terminal is not online：**The bound terminal device is not online, turn on the terminal device and make sure to connect to the server, try again.
- **The number of bound terminals exceeds the upper limit：**The number of terminal devices bound to the team exceeds the upper limit, you can unbind other terminal devices in the team and try to bind again.
- **Terminal does not exist：**The bound terminal device does not exist, check whether the CID of the terminal is entered incorrectly.
- **Terminal has been bound：**The terminal has been bound, you can check whether it has been bound to a team or personal device. If it has been bound, you can unbind it and bind it again.

Figure 23

Figure 24

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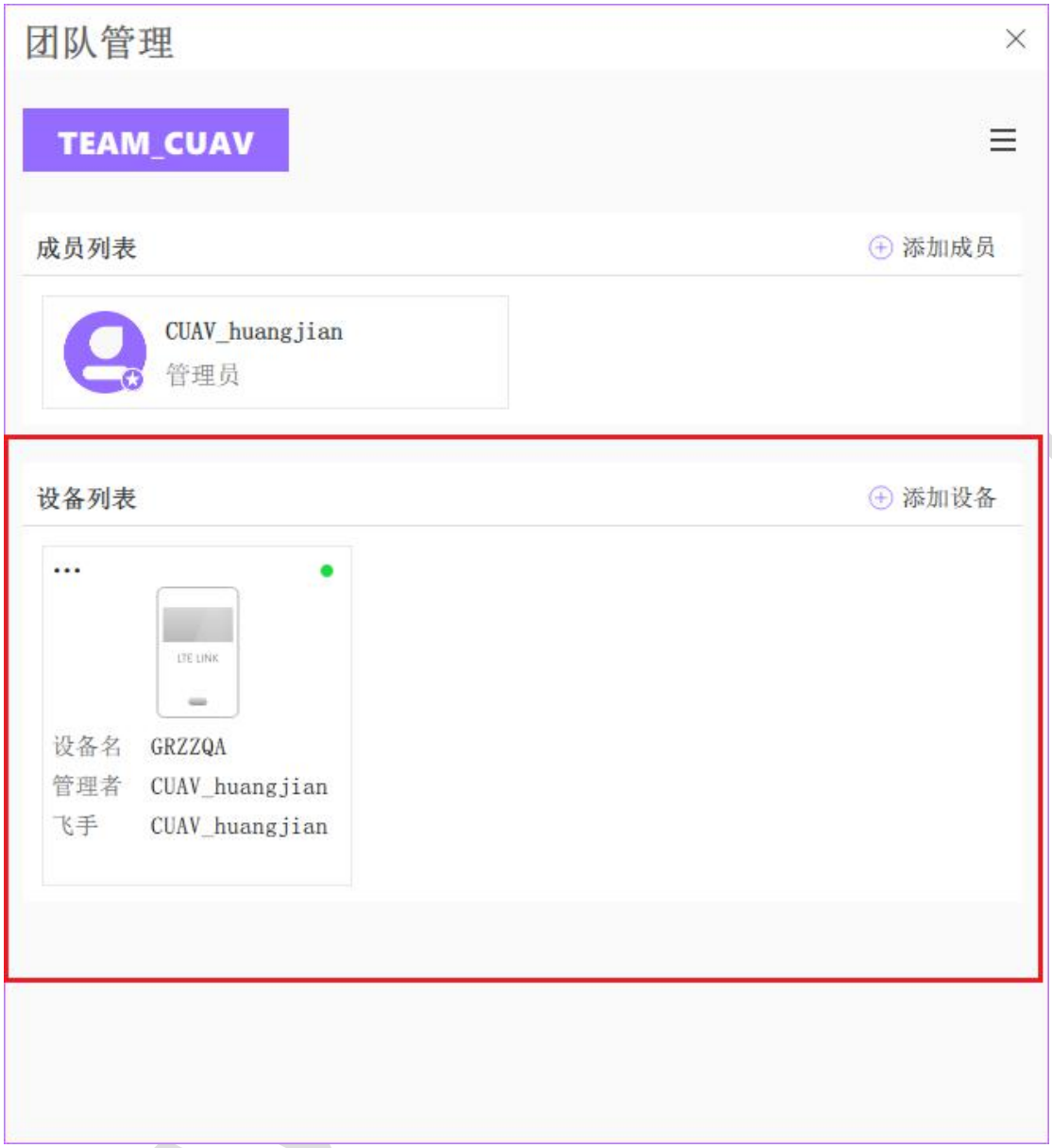

Figure 25

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Figure 26

6.7 Team equipment

In the team device display box (Figure 27), the icon in the upper right corner is the online icon， is offline， is device is online.to operate the team equipment (Figure 27), you can click on the upper left corner , and an option menu will pop up (Figure 28), including four options: "Unbind Device", "Replace Pilot", "Change Administrator", and "Rename".

Figure 27

Figure 28

After clicking "Unbind Device", a confirmation box will pop up (Figure 29). If you select "Yes", the device will unbind. If you select "No", the operation will be canceled. When unbinding fails, an error message will be displayed in the confirmation box (Figure 30). (Note: This operation is only for device administrator).

Correspondence to the error message：

- **Operation timeout：**Check whether the network is abnormal, if it is normal, the server may be abnormal.

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Figure 29

Figure 30

After clicking "Replace Pilot", an operation box will pop up (Figure 31). After selecting a new pilot, click Modify to replace the new pilot. When the modification fails, an error message will be displayed in the pop-up operation box (Figure 32). (Note: This operation is only for device administrator).

Correspondence to the error message：

- **Operation timeout：** Check whether the network is abnormal, if it is normal, the server may be abnormal.

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Figure 31

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Figure 32

After clicking "Change administrator", an operation box will pop up (Figure 33). After selecting a new administrator, click Modify to change the new administrator. When the modification fails, an error message will be displayed in the pop-up operation box (Figure 34). (Note: This operation is only for device administrator).

Correspondence to the error message：

- **Operation timeout：** Check whether the network is abnormal, if it is normal, the server may be abnormal.

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Figure 33

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Figure 34

After clicking "Rename", the device name modification window will pop up (Figure 35). After entering the new device name, click Modify to modify the device name. When the modification fails, an error message will be displayed in the pop-up name modification window (Figure 36). (Note: This operation is only for the device administrator/pilot).

Correspondence to the error message：

- **Operation timeout：**Check whether the network is abnormal, if it is normal, the server may be abnormal.

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Figure 35

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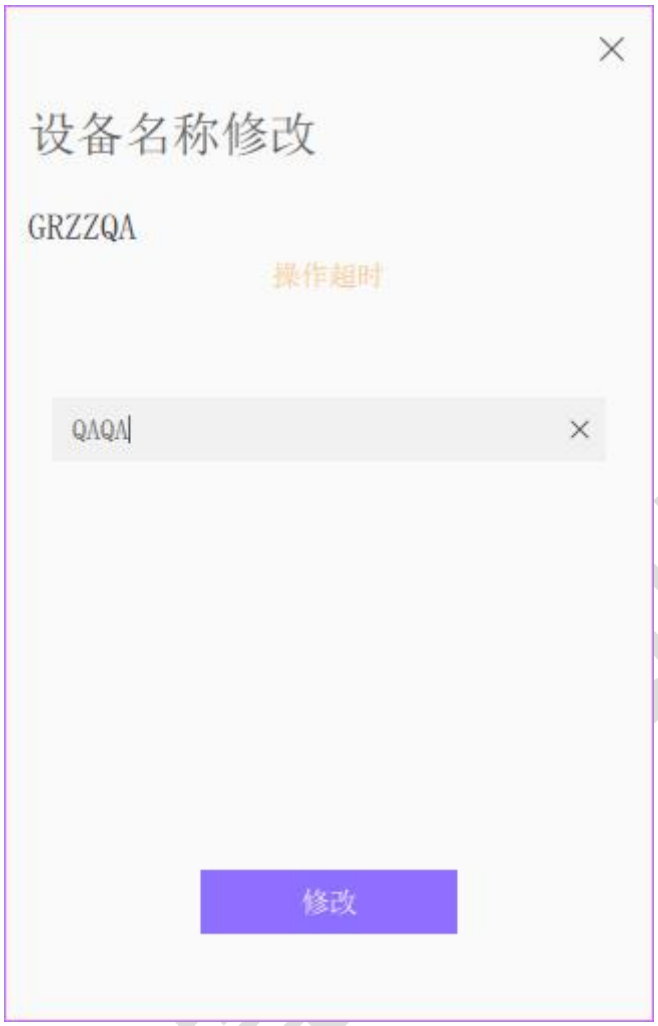

Figure 36

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7 Notification

After clicking the option menu in the main interface (Figure 8) and selecting the "Message" option, a message notification interface (Figure 37) will pop up. Notifications about team operations will be displayed on this interface, including the invitation to join.

Figure 37

7.1 Team invite to join

After receiving the invitation notification from the team, it will be displayed in the message notification. The notification contains two buttons, "Reject to join" and "Confirm to join". Click "Confirm to join" to agree to the invitation and join the team, shown as Figure 38. When the operation is performed incorrectly, an error message box will be displayed, shown as Figure 39.

Correspondence to the error message：

- **Operation timeout：**Check whether the network is abnormal, if it is normal, the server may be abnormal.
- **Join failed, the team does not exist：**The team does not exist, maybe the team has been disbanded.
- **Join failed, the team is full：**The number of members of the team is full, no more new members can be added, you can contact the team administrator.
- **Join failed, joined team up to the limit：**The number of teams that the user has joined is full, and can no longer join a new team. You can leave the joined team and try again.
- **Failed to join, invalid invitation：**This invitation has expired and the team administrator can invite again.

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Figure 38

Figure 39

8 Personal device

This function is used to add devices to user accounts, and is distinguished from team devices, it is for personal use.

After clicking the option menu in the main interface and selecting the "Personal Device" option, the personal device interface will pop up (Figure 40). Enter the CID of the device and click the "Bind Device" button to bind. The binding needs to be confirmed on the device. After the binding is completed, the corresponding device information will be added to the device list below, and the device can be renamed and unbound by right-clicking the device pop-up menu (Figure 41).

Corresponding issues with binding error messages：

- **Operation timeout：**Check whether the network is abnormal, if it is normal, the server may be abnormal.
- **Terminal is not online：**The bound terminal device is offline, turn on the terminal device and make sure to connect to the server, try again.
- **The number of bound terminals exceeds the upper limit：**The number of terminal devices bound to the team exceeds the upper limit, you can unbind other terminal devices in the team and try to bind again.
- **Terminal does not exist：**The bound terminal device does not exist, check whether the CID of the terminal is entered incorrectly.
- **Terminal has been bound：**The terminal has been bound, you can check whether it has been bound to a team or personal device. If it has been bound, you can unbind it and bind it again.

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Figure 40

Figure 41

9 Data transmission

The mavlink data sent by the device can be forwarded to a third-party application program through the network.

9.1 Addition

By clicking the "Add Data Transmission" button at the bottom of the main interface, the "Transmission Settings" window will pop up (Figure 42). Set the protocol, receiver IP address, receiver port, device, remarks (optional), and click "Add" Button to complete the addition of the transmission. After adding, the corresponding transmission item will be automatically added in the main interface data transmission list (Figure 43).

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Figure 42

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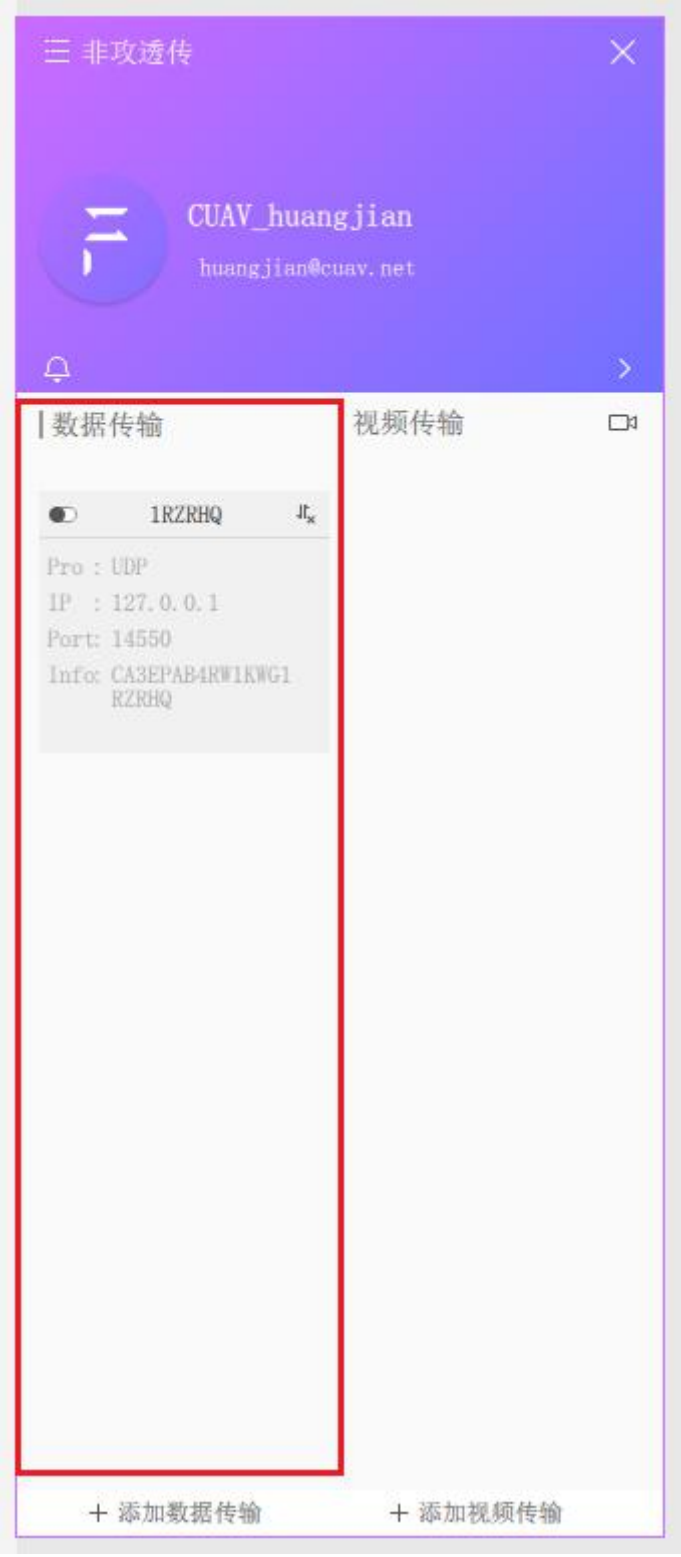

Figure 43

9.2 Delete

Right-click the data transfer item to be deleted, select Delete to delete the data

transfer. shown as Figure 44

Figure 44

9.3 Edit

Right-click the data transmission item to be edited and select Edit (Figure 45),

the editing window will pop up (Figure 46), modify the corresponding value and click Save.

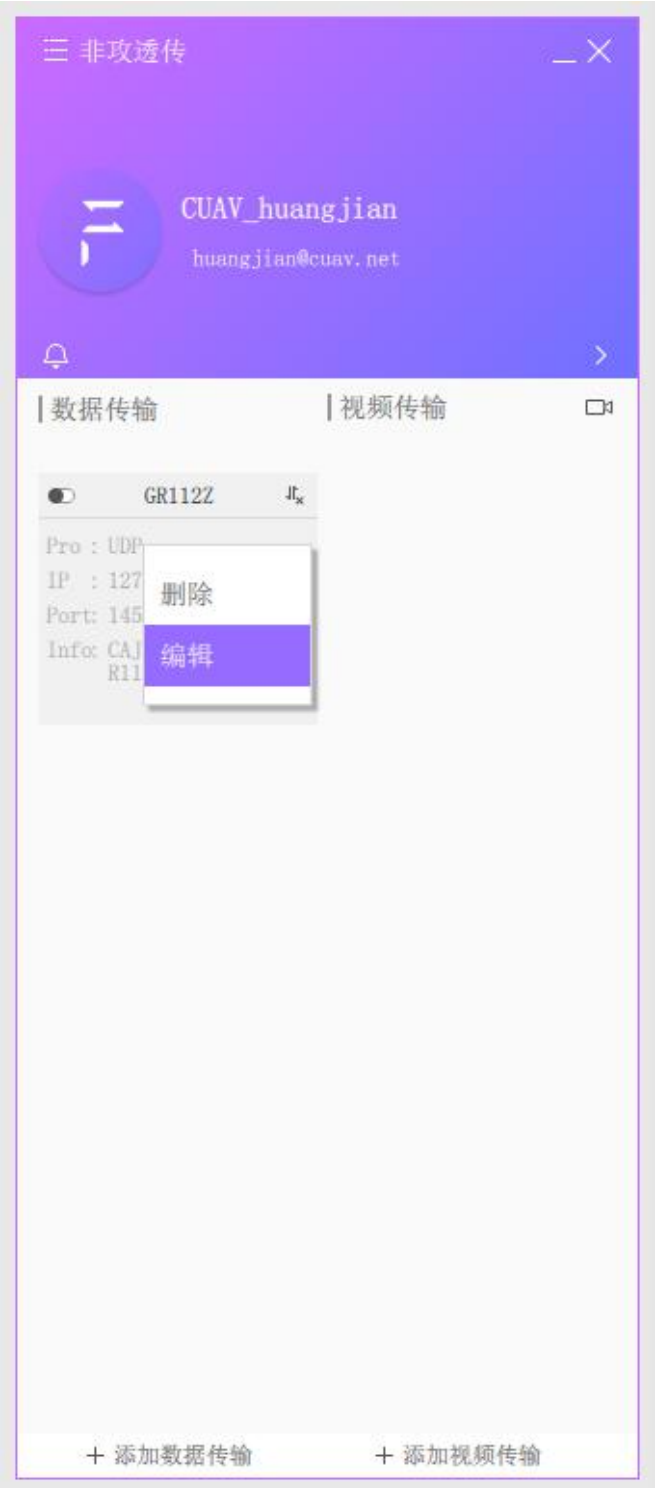

Figure 45

Figure 46

9.4 Switch on/switch off

For each data transfer item (Figure 47）,when data is being transmitting, the upper left corner is switched on, is switched on，Click the switch button of the data transfer item to switch it on，If it is then click it to switch off.. When the upper right corner is it means that the data is transmitted regularly,if it is then it means there no data transmission.Figure 48 shows an example of data transmission in progress.Shown as Figure 48,after switching on, the data will be sent to the IP address 127.0.0.1 using UDP, In the receiving end with port 14550,at this time, as long as in the machine with IP address 127.0.0.1,third-party software can use UDP to receive

data with port 14550.

Figure 47

Figure 48

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10 Video transmission

The video data of the device can be forwarded to a third-party player for playback through the network.

10.1 Addition

By clicking the "Add Video Transmission" button at the bottom of the main interface, the "Transmission Settings" window will pop up (Figure 49). Set the protocol, receiver IP address, receiver port, device, camera channel, remarks (optional), and click "Add" button to complete the addition of the transmission. After adding, the corresponding transmission item will be automatically added in the main interface video transmission list (Figure 50).

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Figure 49

CUAV

Figure 50

10.2 Delete

Right-click the video transmission item to be deleted and select Delete (Figure 51) to delete the video transmission.

Figure 51

10.3 Edit

Right-click the video transmission item to be edited and select Edit (Figure 52), and the editing window will pop up (Figure 53). After modifying the corresponding

value, click the "Save" button.

Figure 52

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Figure 53

10.4 Switch on/switch off

For each video transmission item (Figure 54), when video is being transmitting，the upper left corner, is switch off, means switch on,Click the switch of the data transfer item to switch it on,If it is click to close.when the upper right corner is then means the data is being transferred, if is It means that no data is being transmitted.When is switch on,if the video is off， then you need to manually select the corresponding video quality,lick the selection bar below (Figure 54) to display quality options (Figure 55),after selecting the quality, the video is transferred.Figure 56 is an example of video transmission in progress,the transmission sends the data to

port 6270 of the IP address 127.0.0.1. On the machine with the IP address of 127.0.0.1, use a third-party playback software to monitor the UDP port 6270 to obtain video data.

Figure 54

Figure 55

Figure 56

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11 Personal center

After clicking the option menu in the main interface (Figure 8) and selecting the "Personal Center" option, the Personal Center interface will pop up (Figure 57).

Figure 57

11.1 Change username

In the personal center (Figure 57), click the input box to the right of the nickname and enter the new nickname (Figure 58), click the button on the right to modify the nickname.

Figure 58

11.2 Change phone number

In the personal center (Figure 57), click the button on the right side of the mobile phone field to enter the mobile phone modification interface (Figure 59). After entering the new mobile phone number, click "Get verification code", the verification code will be sent to the new mobile phone number and you will receive it After filling in the verification code, click Confirm change to complete the modification. When the verification code fails to be obtained or the modification fails, the error message will be displayed on the interface (Figure 60). This picture shows that the verification code fails to be sent due to problems such as a mobile phone format error).

Correspondence to the error message：

- **Operation timeout：**Check whether the network is abnormal, if it is normal,

the server may be abnormal.

- **The mobile phone number has been registered：**The mobile phone number has been used, you can use the mobile phone number to log in, but it cannot be changed.
- **Verification code must be filled：** Try again after filling in the verification code.
- **Operation failed：** Check if the verification code is wrong.

Figure 59

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Figure 60

11.3 Change mailbox

In the personal center (Figure 57), click the button on the right side of the mailbox field to enter the modify mailbox interface (Figure 61). After entering the new mailbox, click "Get verification code". The verification code will be sent to the new mailbox. After filling in the verification code, click Confirm change to complete the modification. When the verification code fails to be obtained or the modification fails, the error message will be printed on the interface (Figure 62, the figure shows the verification code sending failure caused by the incorrect mailbox format).

Correspondence to the error message：

- **Operation timeout：**Check whether the network is abnormal, if it is normal, the server may be abnormal.
- **The mailbox has been registered:** The mailbox has been used, you can use the mailbox to log in, but it cannot be changed.
- **Verification code must be filled：** Try again after filling in the verification

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code.

- **Operation failed：** Check if the verification code is wrong.

Figure 61

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Figure 62

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12 Video watch

Click on the main interface button,pop-up video window interface (Figure 63),click to show window,the device selection window will pop up (Figure 64),select the corresponding device,click the "OK" button,add to display window for display.After adding, if the video has no transmission display, you need to right-click the display window and select the corresponding video quality.If you need to close the video, right-click the display window and select close device to close the video.Video can be full-screened by double-clicking the display window, double-click again to exit full-screen.

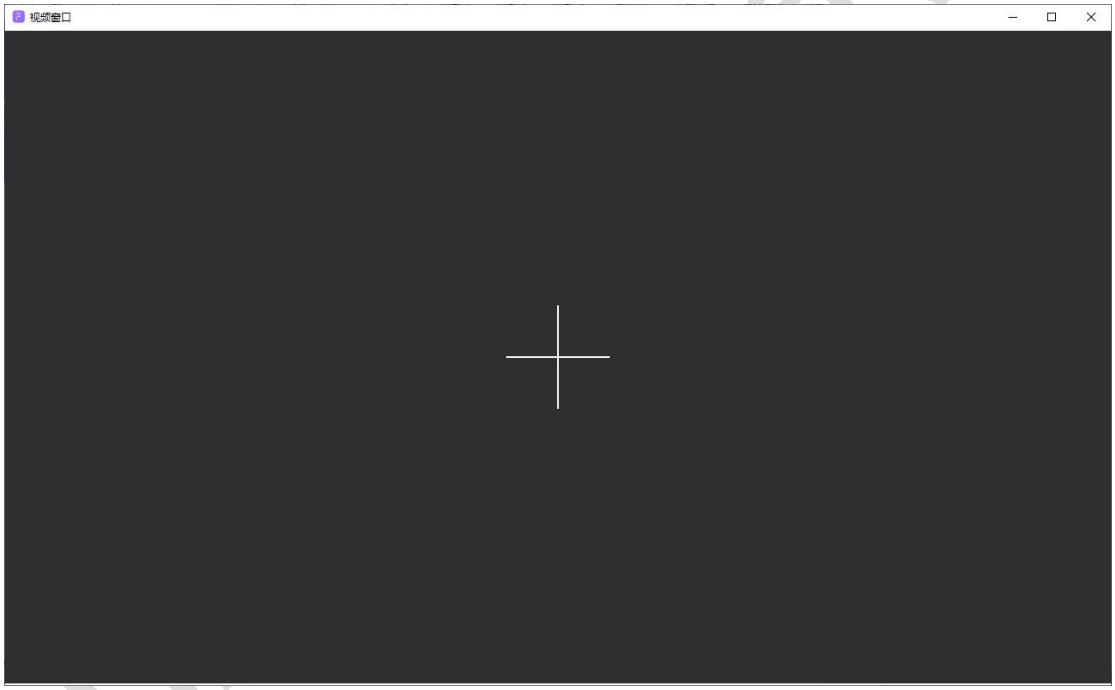

Figure 63

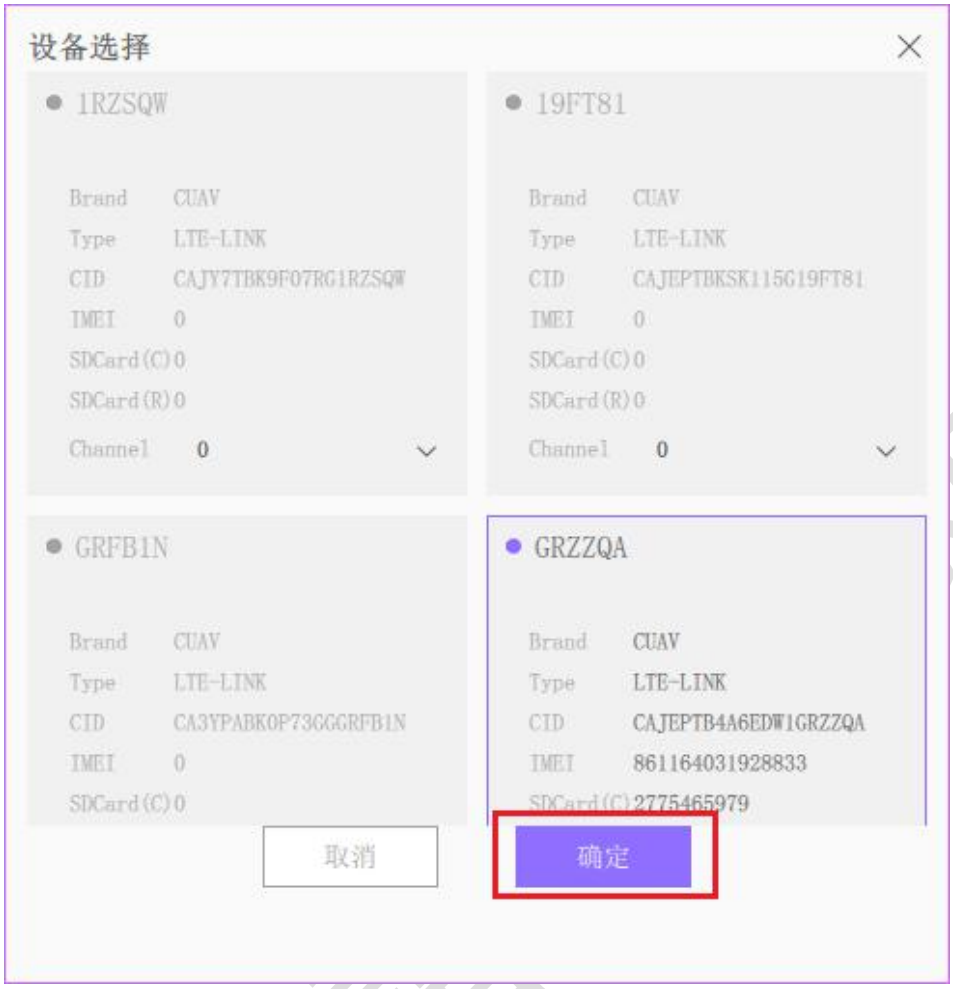

Figure 64

Right-click the display window to open the option menu (Figure 65). The menu includes: modify the number of display windows, video quality, decoding selection, video information, switch equipment, and close equipment.

Figure 65

12.1 Modify the number of display windows

The display window supports a variety of split-screen forms, including four forms of 1x1, 1x2, 2x2, and 2x4. Right-click the video window and select the “Video Window” option in the pop-up option menu (Figure 66) to select the corresponding split-screen form. (Figure 67 and Figure 68 show 1x2 and 2x4 display windows)

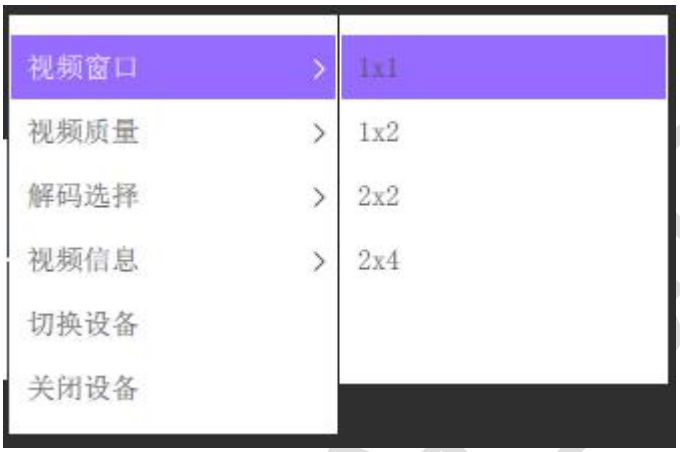

Figure 66

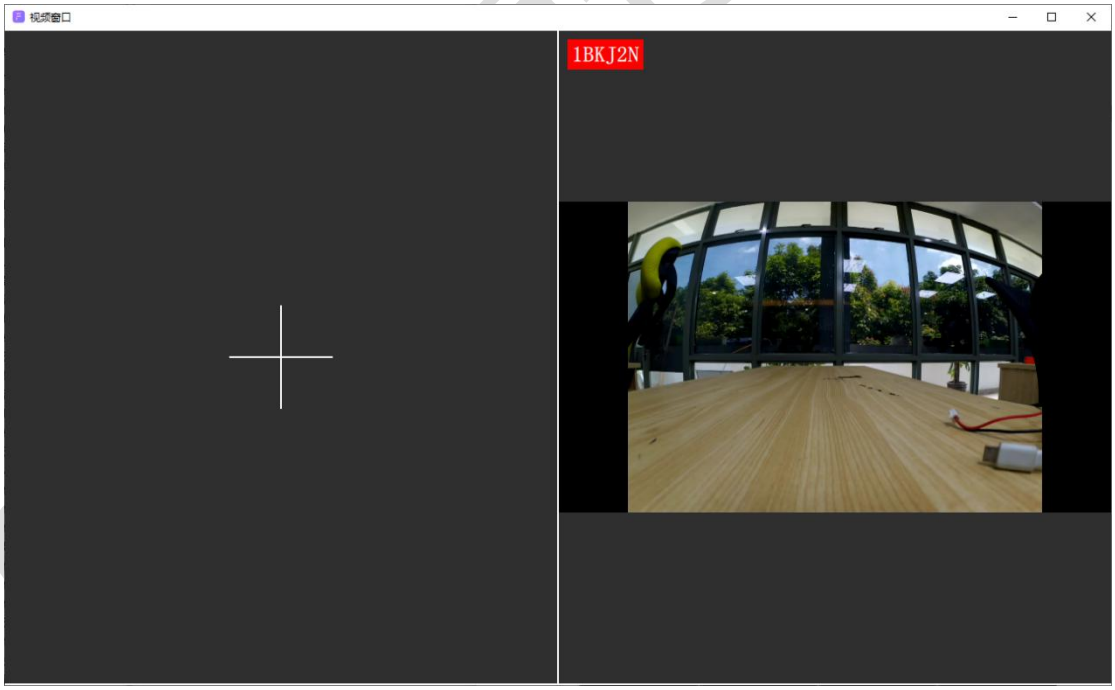

Figure 67

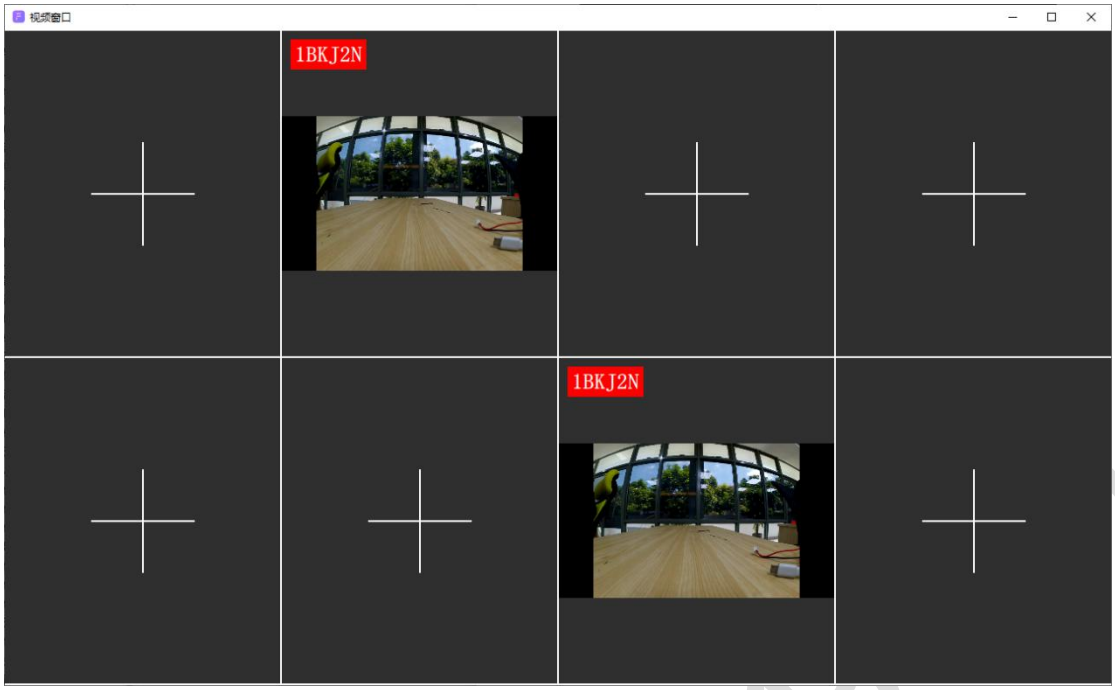

Figure 68

12.2 Modify video quality

The video quality supports different video quality according to different cameras, including smooth, SD, HD, and full HD. Right-click the display window to modify the video quality in the "Video Quality" option in the pop-up option menu (Figure 69), Select the corresponding video quality, it will switch to the corresponding quality. For example: Figure 70 is smooth, Figure 71 is SD, and Figure 72 is HD. (Note: The observer cannot switch the video quality, choose any quality to display the specified quality)

Figure 69

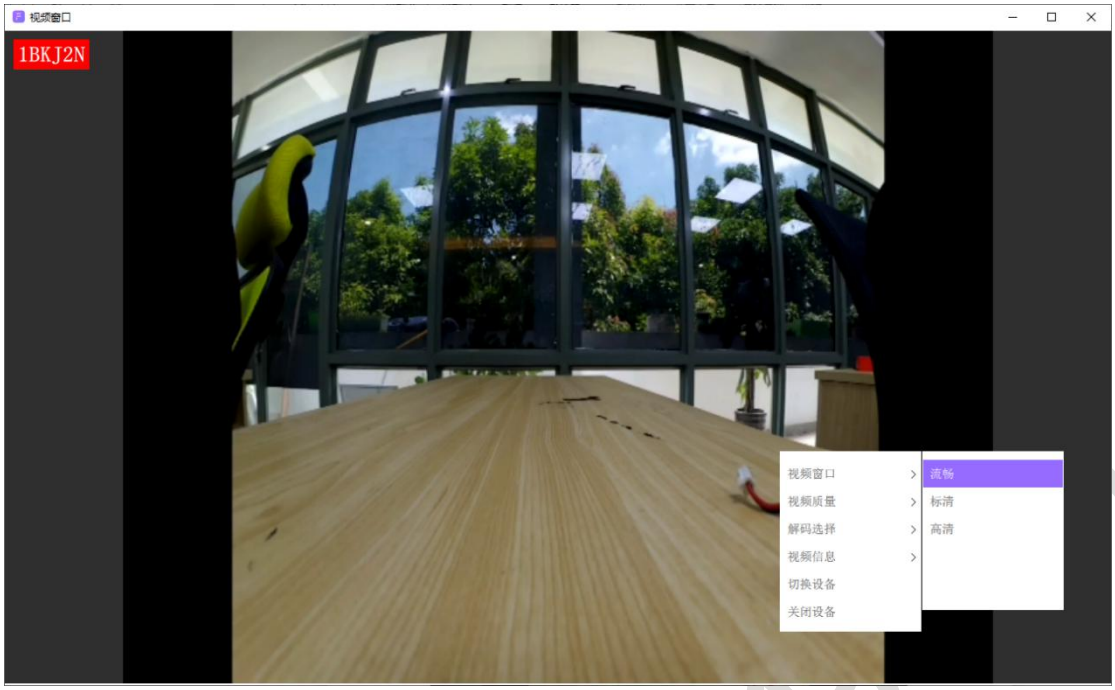

Figure 70

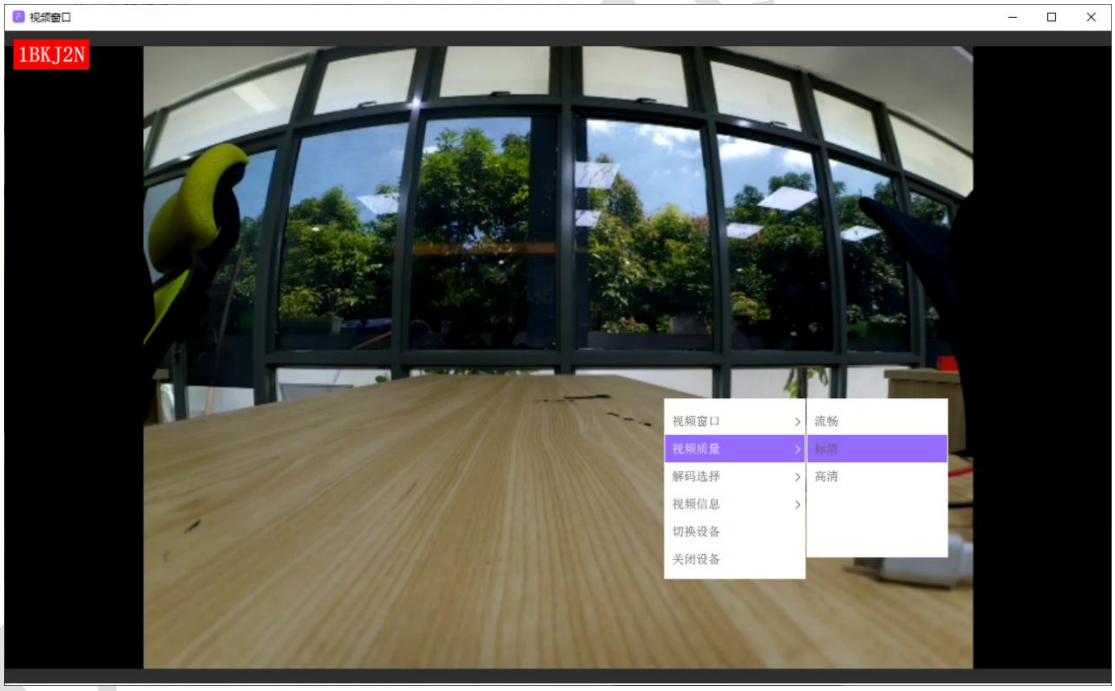

Figure 71

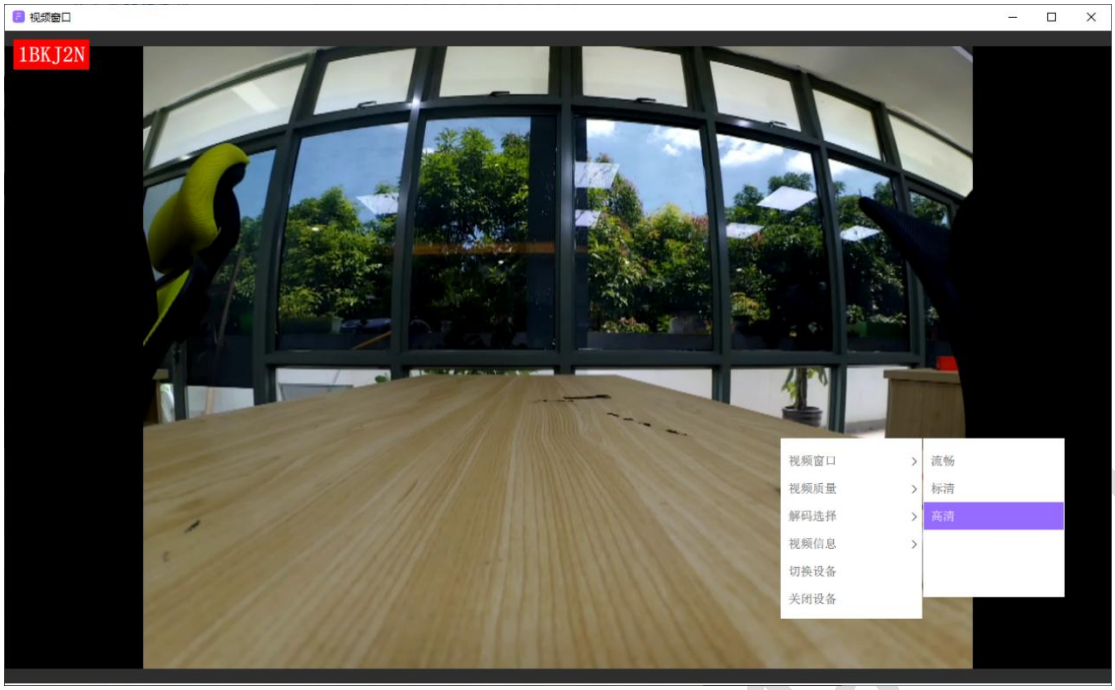

Figure 72

12.3 Modify the decoding type

Video decoding supports both software decoding and hardware decoding. Right-click the display window to modify the decoding type. In the pop-up option menu, in the "Decoding Type" option (Figure 73), select the decoding type.

图 73

12.4 Turn on/off video information

By default, the video information will appear in the upper left corner of the video

display window (Figure 74). You can right-click the corresponding display window and turn it on or off in the "Video Information" option in the pop-up option menu (Figure 75).

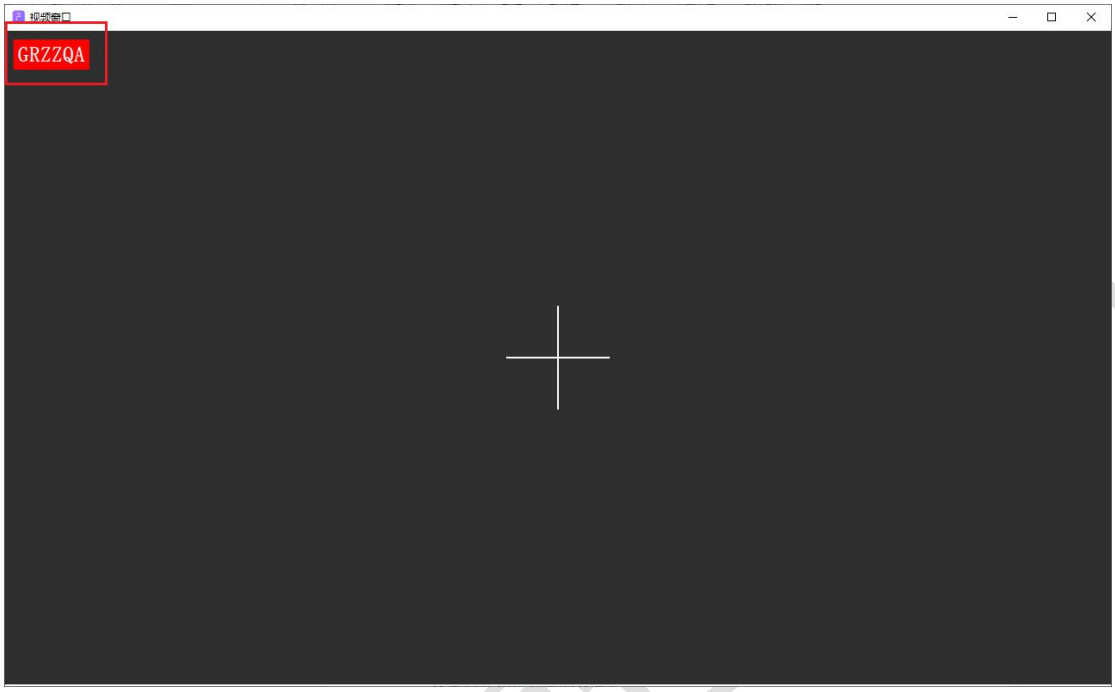

图 74

Figure 75

12.5 Device switching

On the display window that needs to switch the display device, you can right-click the corresponding display window and select the "Switch Device" option in the pop-up option menu (Figure 76), then the "Device Selection" window will pop up (Figure 77), and select the device again Then, click the "OK" button, and the

display device will switch to the new device (Figure 78).

Figure 76

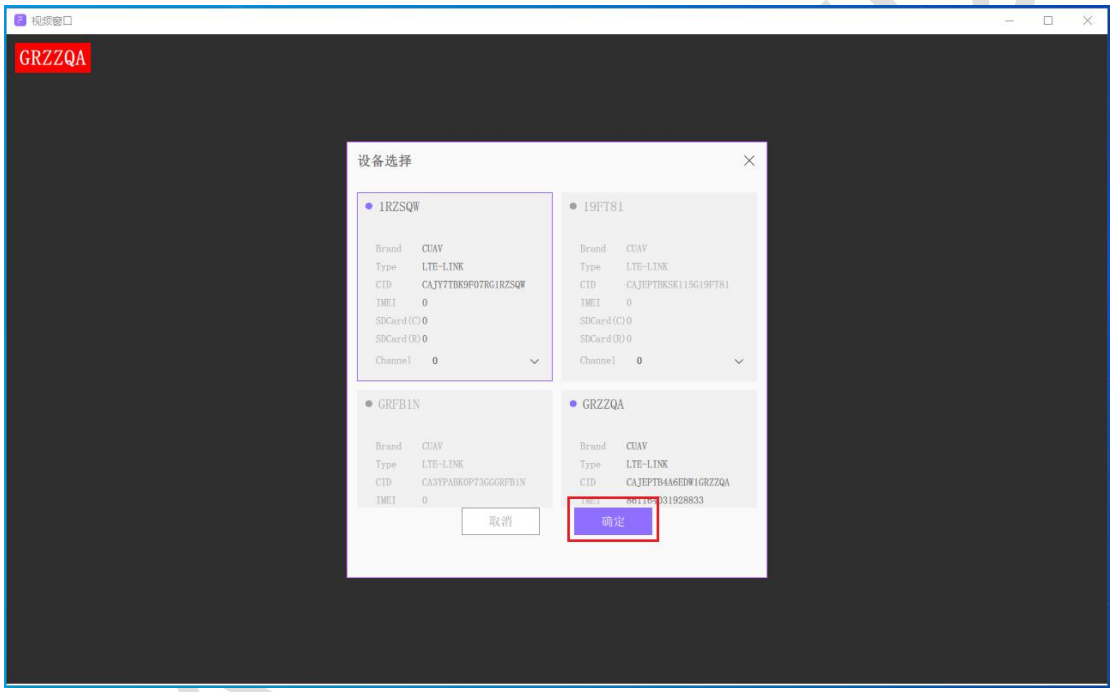

Figure 77

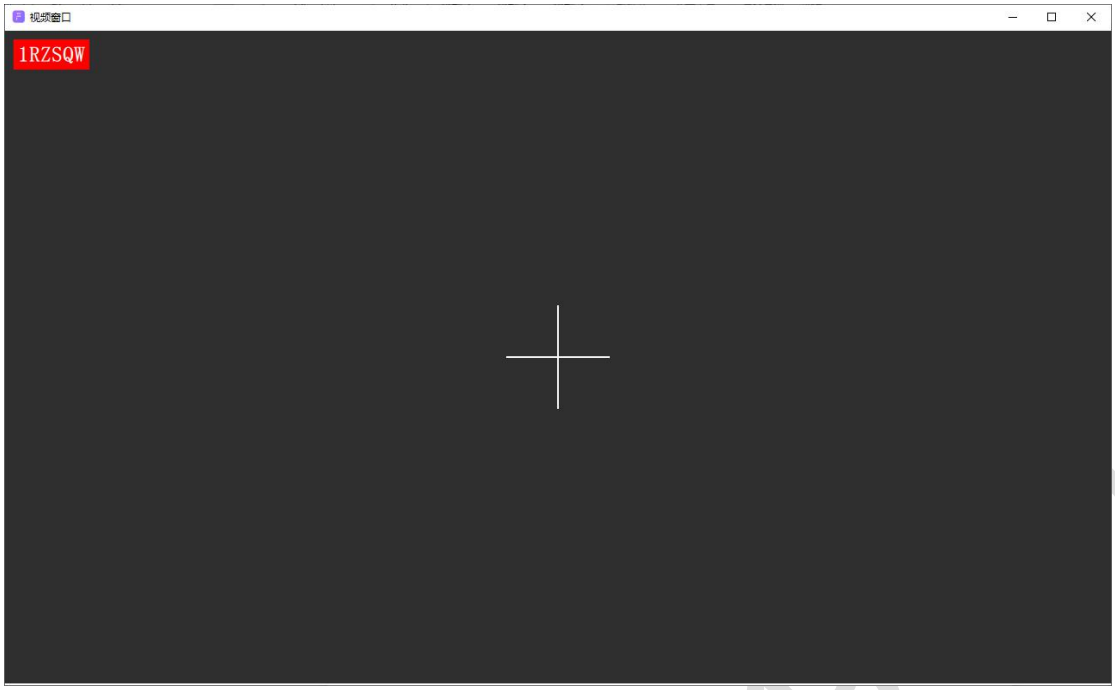

Figure 78

12.6 Close video

On the display window that needs to close the video, right-click to open the option menu and select "Close Device" (Figure 79)

Figure 79

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13 View application output information

Click the button in the main interface (Figure 80), the application output information list will pop up in the sidebar (Figure 81), click the button in Figure 81 to close the sidebar. If you need to clear the output information, click the "Clear Message" button at the bottom of the sidebar and follow the prompts to clear.

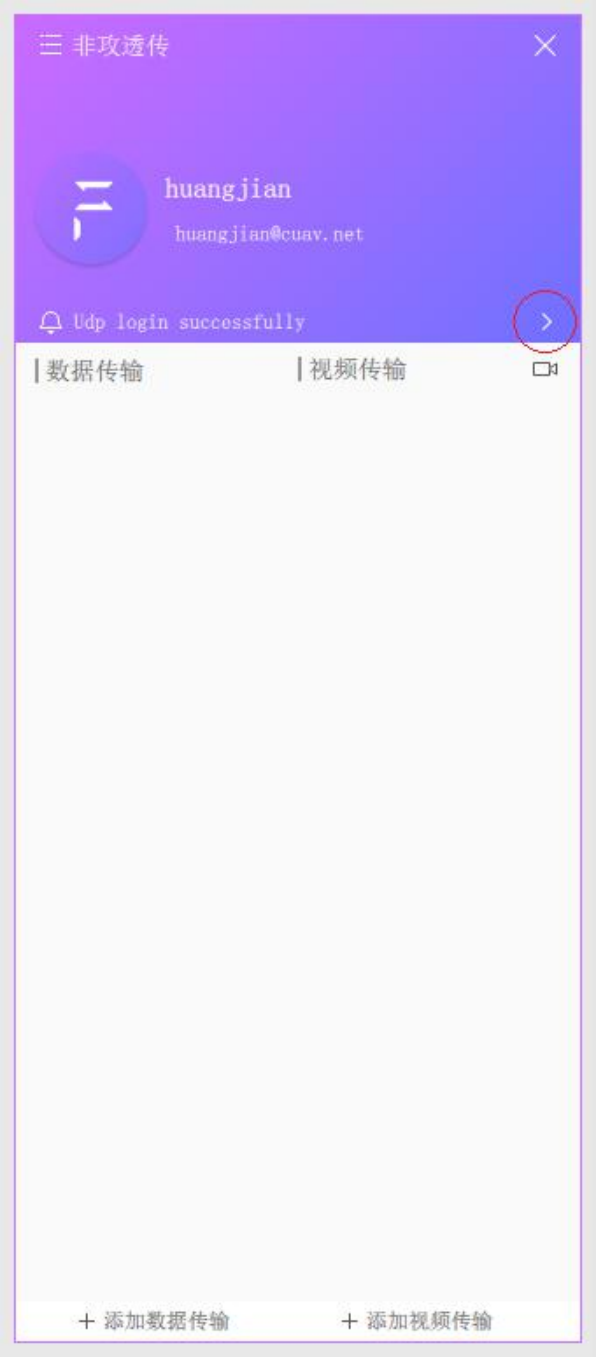

Figure 80

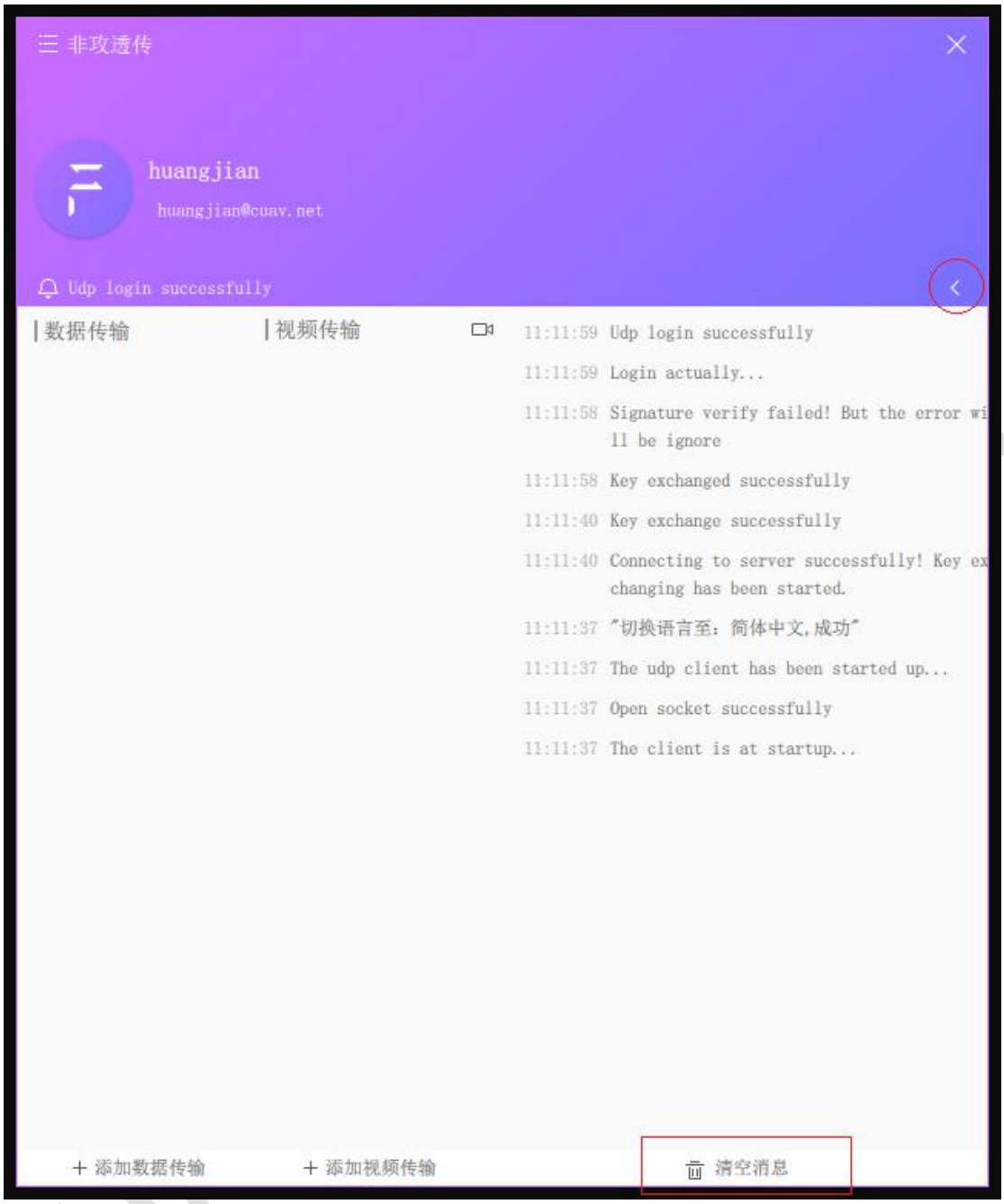
非攻透传
huangjian
huangjian@cuav.net
Udp login successfully
数据传输
视频传输
11:11:59 Udp login successfully
11:11:59 Login actually...
11:11:58 Signature verify failed! But the error wi
ll be ignore
11:11:58 Key exchanged successfully
11:11:40 Key exchange successfully
11:11:40 Connecting to server successfully! Key ex
changing has been started.
11:11:37 "切换语言至：简体中文,成功"
11:11:37 The udp client has been started up...
11:11:37 Open socket successfully
11:11:37 The client is at startup...
+ 添加数据传输
+ 添加视频传输
清空消息

Figure 81

14 Modify language

In the function menu of the main interface, select the "Settings Center" option (Figure 82), the "Settings Center" interface pops up, and select the corresponding language in the "Language" line (Figure 83) to automatically switch。

Figure 82

Figure 83

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15 About the application

In the function menu of the main interface, select the "About Application" option (Figure 84), and the "About Application" window will pop up (Figure 85). The functions include viewing software versions, software updates, etc.

Figure 84

Figure 85

15.1 Software update

Click the "Check for Update" button in Figure 85. If you need to upgrade, an upgrade prompt will appear (Figure 86). Click the "Update Now" button to start downloading the new version (Figure 87). After the new version is downloaded, a query box will pop up (Figure 88), click the "OK" button to upgrade and install.

Figure 86

Figure 87

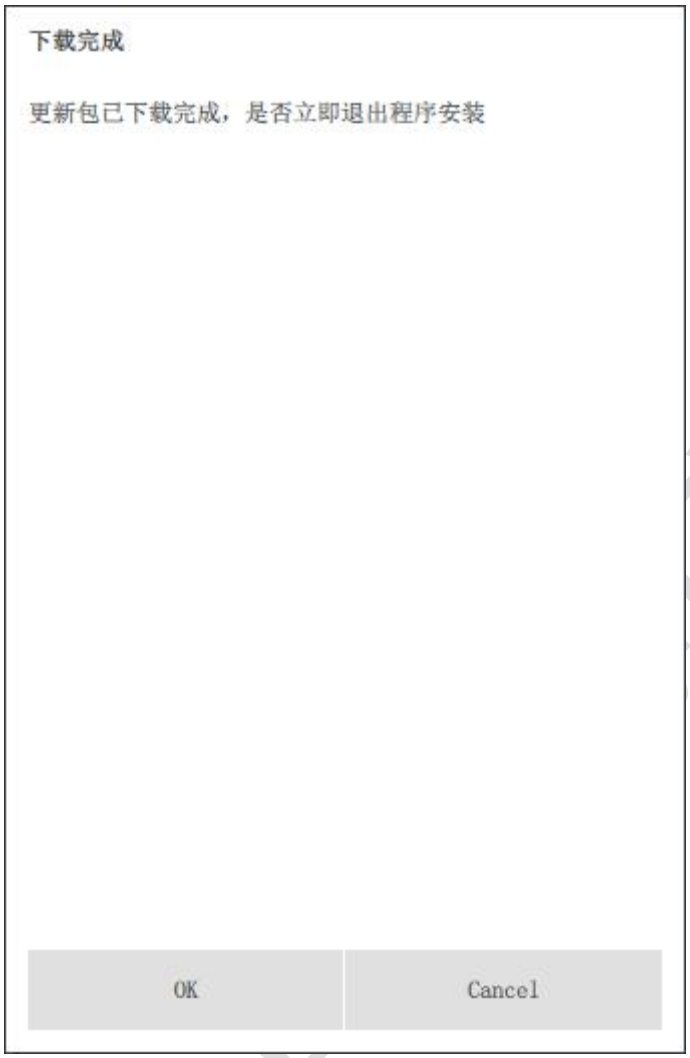

Figure 88

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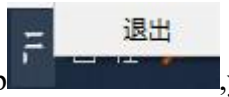
16 Software close/tray

After clicking the close button in the upper right corner of the main interface, the "Exit Settings" window will appear (Figure 89), select "Direct Exit" to close the program directly, and select "System Tray" to minimize the program to the system tray.After selection, subsequent shutdowns will be operated according to the selection.The system tray icon is ,right-click the tray icon and a menu will pop up 

,you can exit the program by clicking the "Exit" option.

Figure 89

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