Master Station (VTS8340B)

User's Manual



Foreword

General

This manual introduces the installation and basic operation of the master station (VTS8340B-CG).

Safety Instructions

The following categorized signal words with defined meaning might appear in the manual.

Signal Words	Meaning
DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
warning	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
A CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
©—TIPS	Provides methods to help you solve a problem or save you time.
NOTE	Provides additional information as the emphasis and supplement to the text.

Revision History

Version	Revision content	Release Date
V1.0.0	First release.	March 2020

About the Manual

- The Manual is for reference only. If there is inconsistency between the manual and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the manual.
- The manual would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper manual, CD-ROM, QR code or our official website. If there is inconsistency between paper manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF

- format) cannot be opened.
- All trademarks, registered trademarks and the company names in the manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

Important Safeguards and Warnings

This chapter introduces the contents covering proper handling of the VTS, hazard prevention, and prevention of property damage. Read these contents carefully before using the VTS, comply with them when using, and keep the manual well for future reference.

Operating Requirement

- Do not place and install the device in an area exposed to direct sunlight or near heat generating device.
- Do not install the device in a humid, dusty or fuliginous area.
- Keep its horizontal installation, or install it at stable places, and prevent it from falling.
- Do not drip or splash liquids onto the device; do not put on the device anything filled with liquids to prevent liquids from flowing into the device.
- Install the device at well-ventilated places; do not block its ventilation opening.
- Use the device only within rated input and output range.
- Do not dismantle the device arbitrarily.
- The device shall be used with screened network cables.

Power Requirement

- The product shall use electric wires (power wires) recommended by this area, which shall be used within its rated specification!
- Use power supply that meets SELV (safety extra low voltage) requirements, and supply power with rated voltage that conforms to Limited Power Source in IEC60950-1. For specific power supply requirements, refer to device labels.
- Appliance coupler is a disconnecting device. During normal use, keep an angle that facilitates operation.
- Do not cut off power supply during device upgrade. Power supply can be cut off only after the device has completed upgrade and has rebooted.



- Risk of explosion if the battery is replaced by an incorrect type.
- Do not throw or immerse into water, heat to more than 100 °C (212 °F), repair or disassemble, leave in an extremely low air pressure environment or extremely high-temperature environment, crush, puncture, cut or incinerate.
- Dispose of the battery as required by local ordinances or regulations.

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1 Overview

1.1 Introduction

1.1.1 Product Introduction

As the contact center and service center of the system, VTS can be used:

- As the client of the platform.
- As the device administrator without the platform, which can manage 120 terminal system at most.
- To do business such as the video intercom, monitoring, listening, calling, and broadcast

1.1.2 Features

- Easy operation; no need to install; the bracket can be adjusted within 0–45°.
- Manage 120 Terminal at most.
- The video intercom between VTSs.
- Multi-channel monitoring, and supports 4-channel 720p at most.
- Capacitive touch screen, 10 inch HD LCD
- Two modes: Handsfree and handset.
- SD Card
- 1-channel HDMI output, and resolution is 1024 × 600 at most.

1.2 Device Structure

Put the VTS on a table place such as desk, and adjust the angle within 0°-45° through the bracket on the rear panel.

1.2.1 Front panel

Figure 1-1 Front panel

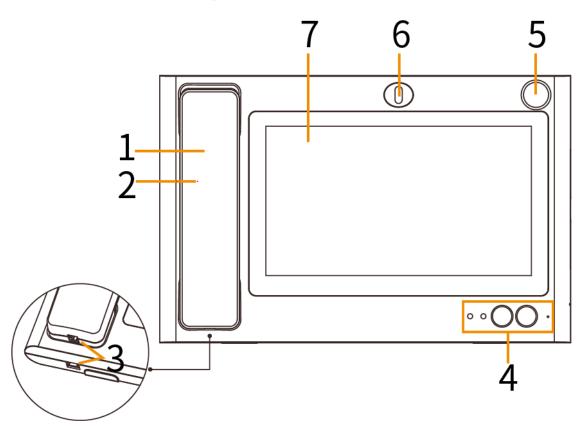


Table 1-1 Front panel description

	Table 1-11 Tolk pariel description		
No.	Parameter	Description	
1	Handset	Pick up the handset, the VTS enters handset mode.	
2	Speaker	Outputs audio.	
3	Telephone line port	Connects the VTS and the receiver.	
4	Indicator lights and buttons	 From left to right: Power indicator light On: Power on; Off: Power off. Message indicator light On: There are missed calls; Off: There is no missed call or missed calls have been processed. Unlock button (Optional) When the VTS is being called, monitoring or talking, press the button to open some front devices which support unlock function. Handfree button Answers calls, and switch between handsfree mode and handset mode. Built-in MIC Inputs audio. 	
5	Speaker port	(Optional) Connects to a microphone.	

No.	Parameter	Description
		This function is only available on the models with built-in
		camera.
6	Camera	(Optional) You can adjust the camera angle manually.
7	Display and touch screen	LCD display and touch screen.

1.2.2 Rear panel

Figure 1-2 Rear panel

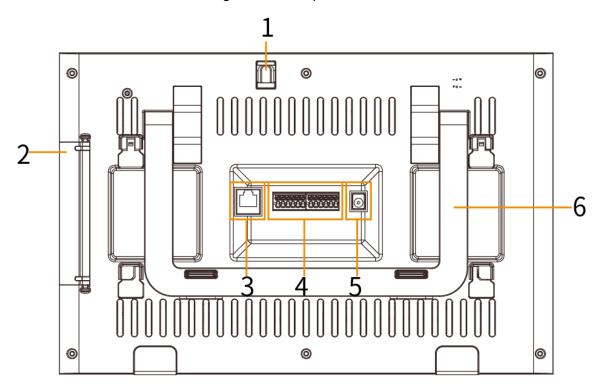


Table 1-2 Rear panel description

No.	Parameter	Description
1	Camera	You can adjust the camera angle manually.
	Port	Open the cover, ports from top to bottom: HDMI video transmission port, which is used for video transmission.
2		USB port.USB port.
		SD slot.
3	Network port	Connects to RJ-45 cable.
4	12-Core port	From left to right: Power output port. Ground. Alarm input port 1. Alarm input port 2. Alarm input port 3.

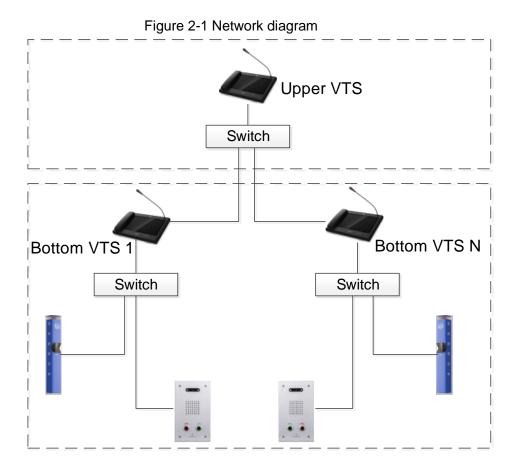
No.	Parameter	Description
		Alarm input port 4.
		Power input port.
		Ground port.
		• RS-485A port.
		• RS-485B port.
		Alarm Output No.
		Alarm Output COM.
5	Power	DC 12V power input.
6 I	l Bracket	Adjust the angle within 0°-45° through the bracket on the rear
		panel.

2 Cable Connection

2.1 Important Note

- Use the standard power adapter. Do not supply power with the adapter of other models.
- Before connecting cables, read "1.2 Device Structure" to learn the device structure.
- Before connecting the power source, make sure that all the cables are connected correctly.
 After power on, the power indicator light is on.

2.2 Network Diagram



3 Web Operations

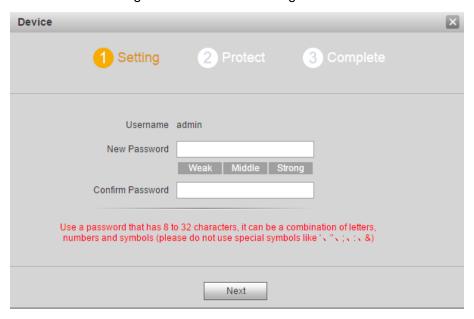
3.1 Device Initialization



For first time login, or after default setting, you need to initialize the VTS; otherwise the VTS cannot be used normally.

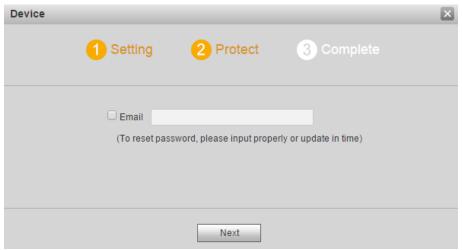
Step 1 Enter the IP address of the VTS in the address bar.

Figure 3-1 Password setting



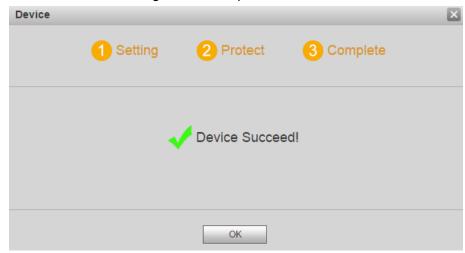
<u>Step 2</u> Follow the screen instruction, enter the new password, confirm the password, and then click **Next**.

Figure 3-2 Password Protection



Step 3 Select the **Email** check box, and then enter your email address, Click **Next**.

Figure 3-3 Completed



Step 4 Click Save. The login interface is displayed.

3.2 Login

Step 1 Enter the IP address of the VTS in the address bar.



Make sure that the PC IP address is in the same network segment device with that of the VTS. The IP of the VTS is 192.168.1.108 by default.

Figure 3-4 Login



Step 2 Enter the username and password

Step 3 Click Login.

3.3 Password Reset

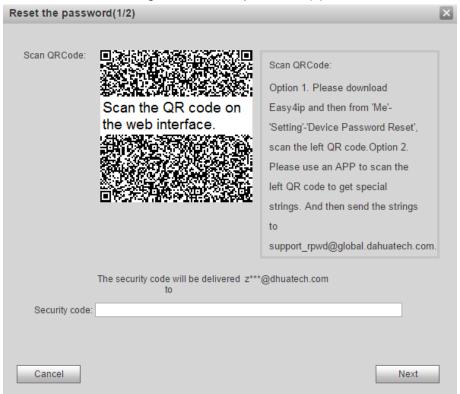
If you forgot the password, you can reset the password through this function.

Step 1 Click Forgot password? on the login interface.



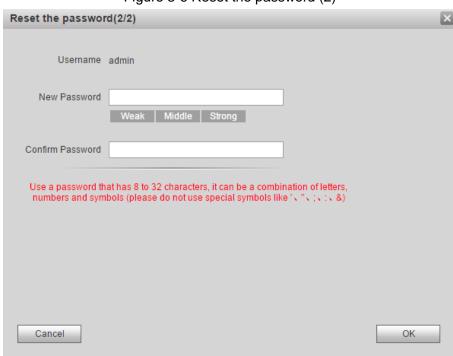
If you use IE browser, the system might prompt **Stop running the script**, click **No** and continue to run the script.

Figure 3-5 Reset password (1)



- Step 2 Scan the QR code, and you will get the security code.
- Step 3 Enter the security code that you have received.
- Step 4 Click Next.

Figure 3-6 Reset the password (2)



Step 5 Enter the new password and confirm it.

The password must consist of 8 to 32 non-blank characters and contain at least two types of characters among upper case, lower case, number, and special character

(excluding ' "; : &). **Password** and **Confirm Password** shall be the same. Enter a strong password according to the password strength indication.

Step 6 Click **OK** and password reset is completed.

3.4 System Setup

3.4.1 Local Setup

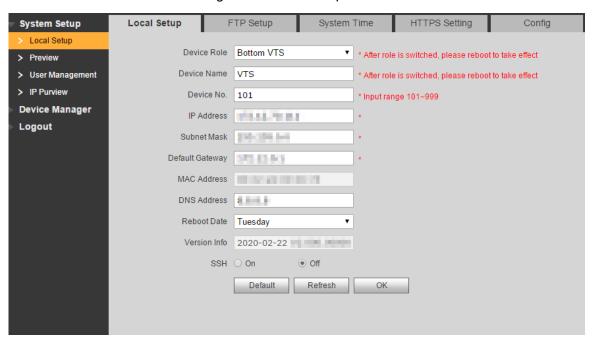
You can configure local information, FTP, system time, and HTTPS, and export, import and default the configuration.

3.4.1.1 Local Setup

Set the information such as device role, device name and IP address.

Step 1 Select System Setup > Local Setup, Click the Local Setup Tab.

Figure 3-7 Local setup



Step 2 Configure parameters.

Table 3-1 Local setup parameter description

Parameter	Description	
Device Role	Includes 3 role types, and the default one is Bottom VTS .	
	Bottom VTS: When used without platform, VTS can be used as bottom	
	VTS, which has management permission.	
	Upper VTS: When used without platform, VTS can be used as upper	
	VTS, which has the permission to add the VTS of lower level, but does	
	not have the permission to manage the organization structure.	
	Platform client: When used with platform, VTS can be used as platform	
	client, which does not have the permission to manage device.	

Parameter	Description	
Device Name	Customize the name for the device.	
Device No.	Customize the number for the device. Do not modify it arbitrarily. If you modify the number of the VTS of lower level, you need to add the device to the upper VTS.	
IP Address	Enter the IP address, subnet mask, and gateway	
Subnet		
Mask	If you modify the IP address of the VTS of lower level, you need to add the	
Default Gateway	device to the upper VTS.	
MAC	Displays the MAC address of the Device.	
Address	Displays the IVIAO address of the Device.	
DNS	The DNS address of the device, and it is 8.8. 8.8 by default.	
address	·	
Reboot Date	Set the time at which the VTS auto reboots. The time is 2:00, Tuesday by default.	
Version Info	Display the current Version.	
	Enable or disable the SSH debug function.	
	If you have enabled the SSH function the Advanced Config on the	
	device, the function is enabled on the web interface. See "4.2.6.2 Local Setup."	
SSH	You can modify VTS number, local IP address, subnet mask, and	
	gateway; and view the MAC address and version information. See Figure	
	4-14.	
	 You can modify VTS number, local IP address, subnet mask, and 	
	gateway; and view the MAC address and version information. See Figure	
	4-14.	

Step 3 Press OK.

- Click **Default** to restore all the configuration of this tab to the default value.
- Click **Refresh** to display the current system configuration.



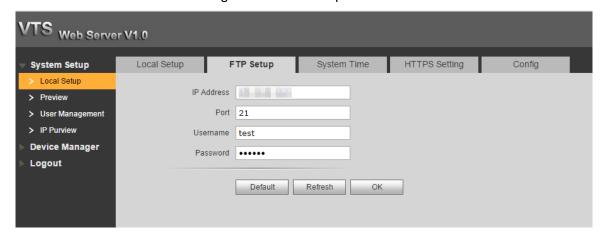
- The parameter with * indicates necessary.
- After Device Role is modified, the system will go to the login interface, and you need to log in again.
- After IP Address is modified, the system will go to the login interface, and you need to log in again.

3.4.1.2 FTP Setup

Get audio files from FTP and play them.

Step 1 Select System Setup > Local Setup, Click the FTP Setup Tab.

Figure 3-8 FTP Setup



Step 2 Enter the IP address, port, username and password of the FTP.

Step 3 Press OK.

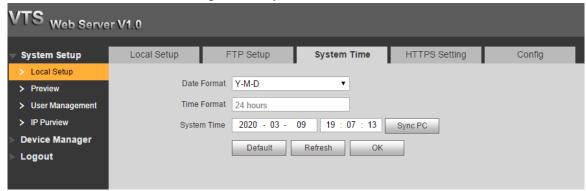
- Click **Default** to restore all the configuration of this tab to the default value.
- Click Refresh to display the current system configuration.

3.4.1.3 System Time

Set the system time.

<u>Step 1</u> Select **System Setup > Local Setup**, Click the **System Time** tab.

Figure 3-9 System time



Step 2 Configure parameters. See Table 3-2.

Table 3-2 Local setup

Parameter	Description	
Date Format	Set the data format. You can select from Year-Month-Day,	
Date Format	Month-Day-Year, and Day-Month-Year.	
Time Format	Configure the time format, you can select from 12-Hour and 24-Hour.	
System Time	Set the system time.	
Sync PC	Click Sync PC to sync the VTO system time and the PC system time.	

Step 3 Press OK.

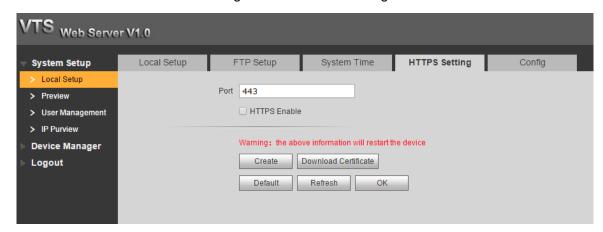
- Click **Default** to restore all the configuration of this tab to the default value.
- Click Refresh to display the current system configuration.

3.4.1.4 HTTPS Setting

Through creating server certificate or downloading root certificate, and setting port number, the PC can log in to the device by HTTPS to ensure the security of communication data and guard the users information and device security with stable technology measure.

Select System Setup > Local Setup > HTTPS Setting. See Figure 3-10.

Figure 3-10 HTTPS setting



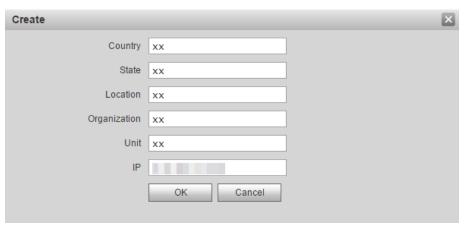


- For the first time to use this function or after changing IP address of the device, you need to create server certificate again.
- For the first time to use HTTPS after changing the PC, you need to download root certificate again.

3.4.1.4.2 Create Server Certificate

Step 1 Click Create Server Certificate.

Figure 3-11 Create server certificate



Step 2 Enter the required information and then click **OK**.

If the operation is correct, then the **Create successful** prompt is displayed.



The entered **IP or Domain name** must be the same as the IP or domain name of the device.

3.4.1.4.3 Download Root Certificate

Step 1 Click Download Certificate.

Figure 3-12 Download certificate file



Step 2 Click Open.

Figure 3-13 Certificate



Step 3 Click Install certificate.

Figure 3-14 Certificate import wizard



Step 4 Click Next.

Figure 3-15 Certificate store



Step 5 Select Place all certificates in the following store, and click Next.

Figure 3-16 Completing certificate import wizard



Step 6 Click **Finish** and a dialog box showing **The import was successful** pops up Figure 3-17 Imported successfully.



3.4.1.4.4 Set HTTPS Port

Enter the port number (the default one is 44, and select the **HTTPS Enable** check box, click OK to enable the HTTPS function.

3.4.1.4.5 Use HTTPS

Enter https://xx.xx.xx.xx:port in the browser bar, and the login interface the box.



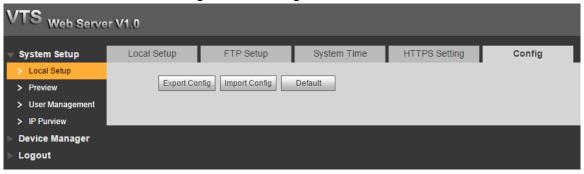
- xx.xx.xx corresponds to your IP address or domain name.
- **Port** corresponds to your HTTPS port. If the default value is 443, you do not need to enter Port, and just enter https://xx.xx.xx.xx.

3.4.1.5 Configuration

Import and export the system configuration, or restore factory default.

Select System Setup > Local Setup, Click the Local Setup Tab.

Figure 3-18 Configuration



Export Configuration

Click **Export Config** to save the configuration to the PC.

Import Configuration

When you want to set several devices to the some configuration or restore the device to certain configuration, click **Import Config**, select the upload file, and then restart the device.

Default

Click **Default**, and then restart the device. The VTS will restart, and all the configuration except IP address will be to factory default.



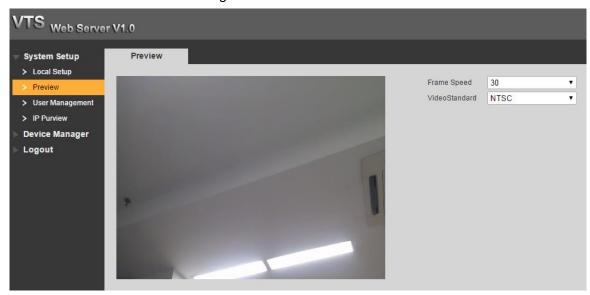
After default, password initialization will be required when you log in to the web interface.

3.4.2 Preview

Select **System Setup > Preview** to view the live video. See Figure 3-19.

Frame Speed indicates the frame number per second, which refers to the updating rate of the video stream. The bigger the value is, the higher the updating rate will be (Unit: fps).

Figure 3-19 Preview

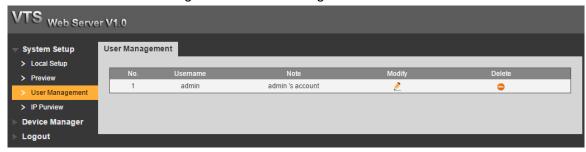


3.4.3 User Management

You can delete, or modify web user information.

Select System Setup > User Config.

Figure 3-20 User management



3.4.3.1 Modify

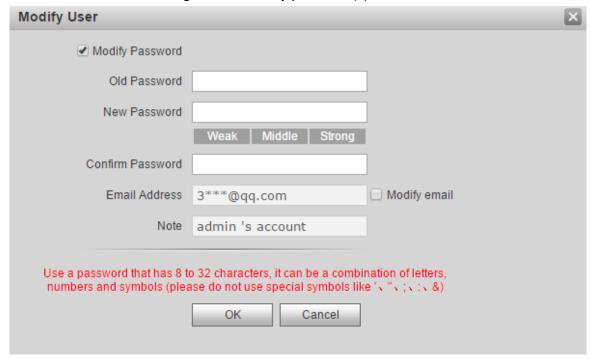
Click in the admin information bar to modify the reserved email address.

Figure 3-21 Modify the reserved email address



If you need to modify the password, select the **Modify Password** check box. Enter old password, new password, confirm password, and then click **OK**.

Figure 3-22 Modify password(1)



3.4.3.2 Delete User

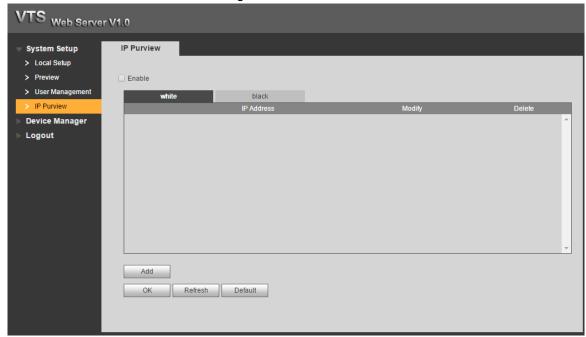
Click in the user information bar to delete a certain user.

3.4.4 IP Purview

To enhance network and data security, you need to configure access authority of IP hosts (IP hosts refer to the PCs with IP address or the servers with IP address). When the IP address of the IP host in the white list, you can access the host; when the IP address of the IP host in the black list, you can not access the host.

Step 1 Select System Config > IP Purview.

Figure 3-23 IP Purview



Step 2 Select Enable.

The system displays White check box and Black check box.

- Select the White check box, and click White tab to add devices to the white List.
- 1) Click **Add**, and then the **Add** dialog box is displayed. Configure the IP address, see Table 3-3.

The system supports 64 IP addresses at most.

Table 3-3 IP address parameters description

Parameter	Description
IP Address	Enter the IPv4 IP address, such as 192.168.1.120.
IP Segment	Input the start IP and end IP of the target IP segment.

2) Click OK.

Log in the web interface with the IP hosts in the white list. Login to the device successfully.

- Select the **Black** check box, and click **Black** tab to add devices to the **black** List.
- 1) Configure the IP address, see Table 3-3.
- 2) Click OK.

Log in the web interface with the IP hosts in the black list. System prompts login failed.

3.5 Device Management

3.5.1 Device Manager

3.5.1.1 Device Manager

- When the device role is bottom VTS, it can add VTT (Video Intercom terminal) and VTA (Emergency phone terminal)
- When the device role is bottom VTS, it can add bottom VTS.

Select **Device Manager > Device Manager**, and click the **Device Manager** tab. Device manager



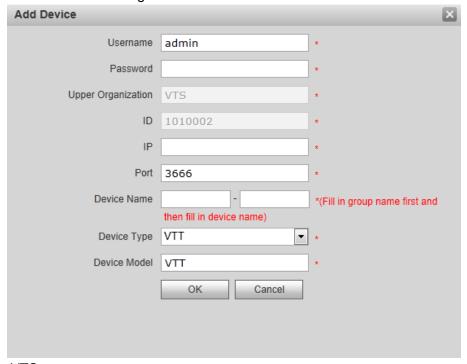
3.5.1.1.1 Adding Device

Bottom VTS

Click VTS node on left side of the interface, and then click **Add**. See Figure 3-24. Enter the device information of added VTT and VTA, and then click **OK**.



- **Device Name** is "group name + device name", and it will be displayed in the device tree on the left side of the interface.
- Make sure that the device model is correct; otherwise the device adding will fail.
 Figure 3-24 Add VTT/VTA



Upper VTS

Click **Edit**. See Figure 3-25. Hover over the device name, and the adding and deleting icons will be displayed. Click , see Figure 3-26. Enter IP address, username and password, and then click **OK**.

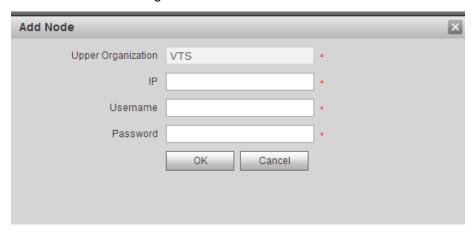


After adding the device, click **Refresh** to display the VTT or VTA information on the interface.

Figure 3-25 Adding VTS



Figure 3-26 Add node

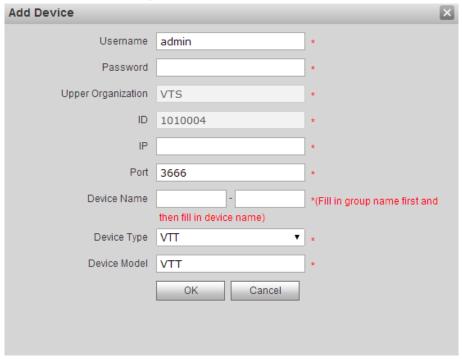


3.5.1.1.2 Modifying Device

You can only modify VTT or VTA information.

Click next to the VTT or VTA information, see Figure 3-27. You can modify username, password, IP address, port, device name, device type and device model.

Figure 3-27 Add device (VTT/VTA)



3.5.1.1.3 Deleting Device

Delete VTS

Click Edit, Hover over the device name, and the add and delete icons will be displayed.

Click to delete it.

 \square

Root node cannot be deleted.

• Delete device (VTT or VTA)

Click in the device information bar to delete a device.

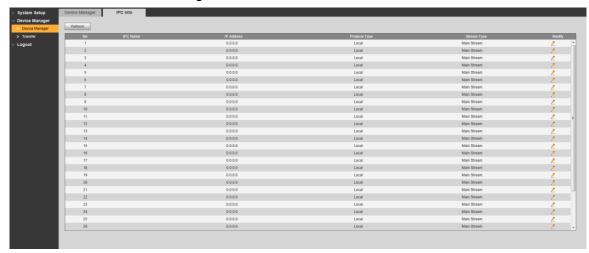
3.5.1.2 IPC Information

Add IPC to do monitoring. And you can add 32 IPCs at most.

<u>Step 1</u> Select Device **Manager > Device Manager**, and select the **IPC Info** tab.

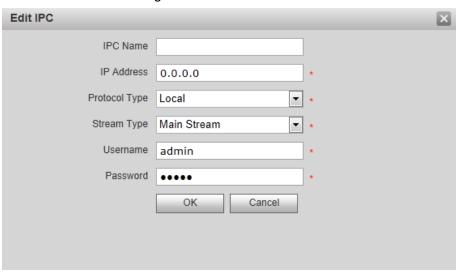
The IPC Info interface is displayed.

Figure 3-28 IPC Information



Step 2 Click 2.

Figure 3-29 Add IP



Step 3 For details, see Table 3-4.

Table 3-4 IPC parameter description

Parameter	Description
IPC Name	Enter the IPC name.
IP Address	Enter the IP address IPC does device.
Protocol	Includes Local and ONVIF.
Stream Type	Includes Main Stream and Sub Stream
Username	Enter the user name/password of the device you need.
Password	

Step 4 Click **OK** to finish configuration.

3.5.2 Call Transfer

Configure the calling transfer and receiving of VTS.



For example, you want to transfer the calling of Device 1 to Device 2. Configure forwarding on Device 1, and receiving on Device 2,

3.5.2.1 Transfer

If you configure calling transfer, when there is calling, the system will transfer the calling to the configured VTS.



When you configure calling transfer on the VTS, you need to configure receiving on the other VTS.

Select **Device Manager > Transfer**, Click the **Transfer** tab. See Figure 3-30.

Figure 3-30 Transfer



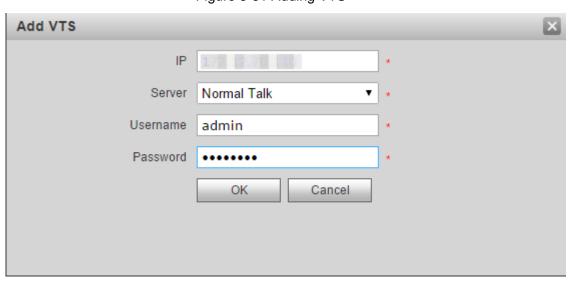
3.5.2.1.1 Adding VTS

Click **Add**. See Figure 3-31. Enter the IP address, username, password, select the server, and then click **OK**.

You can select the server from Normal Talk, Trust, and Call Transfer.

- Normal Talk: When there is a call, you can answer the call and talk normally.
- Trust: Transfer the call to other VTS.
- Call Transfer: When the VTS is busy or nobody answers the call, the call will be transferred to other VTS.

Figure 3-31 Adding VTS



3.5.2.1.2 Deleting VTS

Click in the device information bar to delete a certain device.

3.5.2.1.3 TrustING VTS

Click Trust to enable the Trust function.

3.5.2.1.4 Call Transfer

Click Call Transfer to enable the Call Transfer function.



You cannot enable Trust and Call Transfer at the same time.

3.5.2.2 Receive

After configuring Receive on the VTS, the VTS will receive the call transferred from other VTS.



When you configure **Receive** on the VTS, you need to configure Transfer on the other VTS. Select **Device Manager > Transfer**, and click the **Receive** tab.

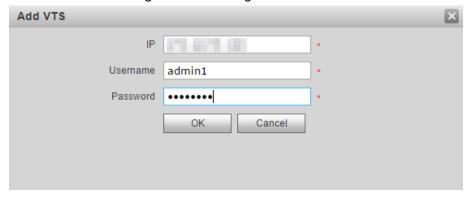
Figure 3-32 Receive



3.5.2.2.1 Adding VTS

Click **Add**. See Figure 3-33. Enter the IP address, username, password, select the server of the VTS that you want to add, and then click **OK**.

Figure 3-33 Adding VTS



3.5.2.2.2 Deleting VTS

Click in the DEVICE information bar to delete a certain device.

3.6 Logout

3.6.1 Reboot

Step 1 Select Logout > Reboot Device.

Figure 3-34 Reboot device

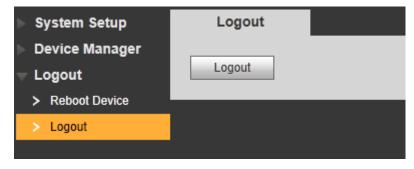


Step 2 Click **Reboot Device** to restart the device.

3.6.2 Logout

Step 1 Select Logout > Logout.

Figure 3-35 Logout



Step 2 Click Logout.

The login interface is displayed.

4 VTS Operation



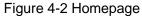
Before operating the VTS, make sure that the cable connection is correct. For details, see "2.1Important Note"

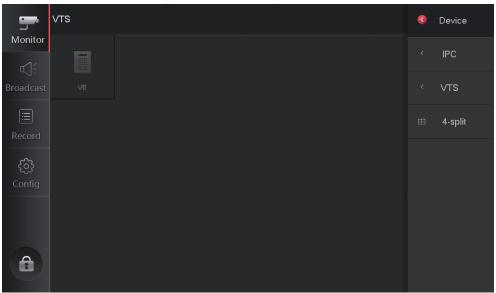
4.1 Standby Interface

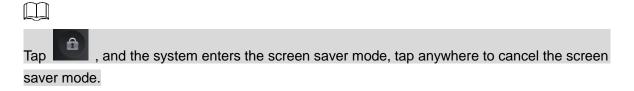
After power on, the standby interface is displayed. See Figure 4-1. Tap anywhere to go to the homepage. See Figure 4-2.



Figure 4-1 Standby interface







4.2 Configuration

Tap **Config** on the homepage to configure display, sound, talk, SD card, default and advance configuration.

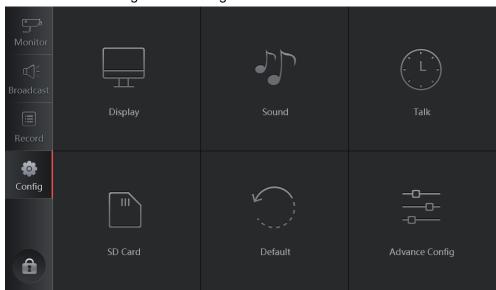


Figure 4-3 Configuration interface

4.2.1 Configuring Display

4.2.1.1 Brightness

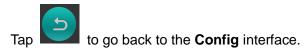
Set the brightness of the touch screen

Step 1 Select Config > Display > Brightness.

Figure 4-4 Brightness



Step 2 Tap + or – to adjust the brightness.

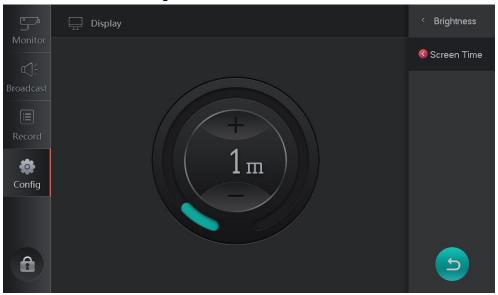


4.2.1.2 Screen Time

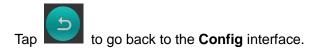
The system will enter screen saver mode after the configured period.

Step 1 Select Config > Display > Screen Time.

Figure 4-5 Screen time



Step 2 Tap + or - to adjust the time, and the unit is minute.



4.2.2 Configuring Sound

4.2.2.1 Ring

You can set the ring tones and volume as needed.

Step 1 Select Config > Sound > Ring.

Figure 4-6 Ring



Step 2 Tap the arrow keys (or) to select the ring tones.

Step 3 Tap + or - to adjust the volume of the ring.

Tap to go back to the **Config** interface.

4.2.2.2 Touch Screen

Select **Config > Sound > Touch Screen**. See Figure 4-7. Tap to enable or disable the touch sound as needed.

Tap to go back to the **Config** interface.

Figure 4-7 Touch screen



4.2.2.3 Talk Volume

Select **Config > Sound > Talk Volume**. See Figure 4-8. Tap + or – to adjust the volume during talking.



to go back to the **Config** interface.

Monitor
Monitor
Broadcast
Record
Config

Figure 4-8 Talk volume

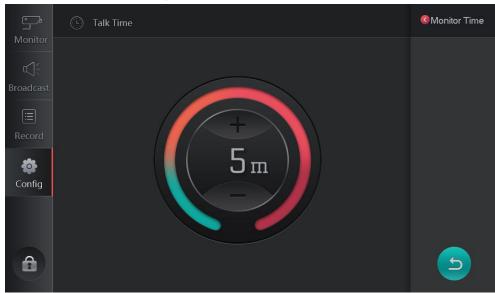
4.2.3 Configuring Talk

Select **Config > Talk**. The **Talk** interface is displayed. See Figure 4-9. Tap + or – to adjust the monitor time.



to go back to the **Config** interface.

Figure 4-9 Monitor time

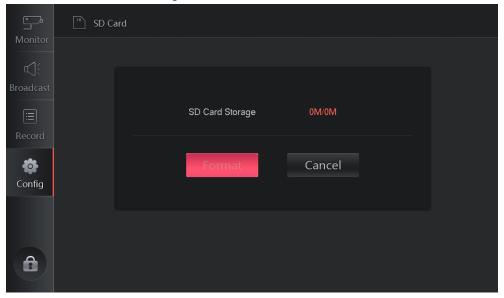


4.2.4 SD Card

Select **Config > SD Card**. The **SD Card** interface is displayed. See Figure 4-10. Tap **Format**, to format the SD card.

Tap Cancel to go back to the Config interface.

Figure 4-10 SD Card

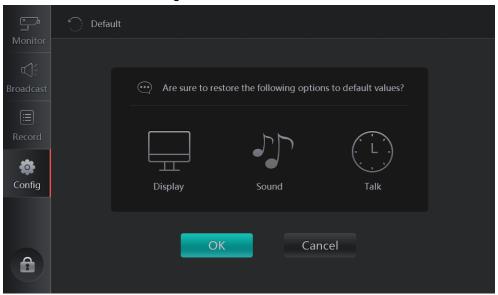


4.2.5 Default

Select **Config > Default**. The **Default** interface is displayed. See Figure 4-11. Tap **OK** to restore the display, sound and talk configuration to default value.

Tap Cancel to go back to the Config interface.

Figure 4-11 Default



4.2.6 Advanced Config

Set the device number and IP address. You can restore the number to the default value. Step 1 Select **Config > Advanced Config**.

Figure 4-12 Advanced login



Step 2 Enter the password.

Figure 4-13 Entering password

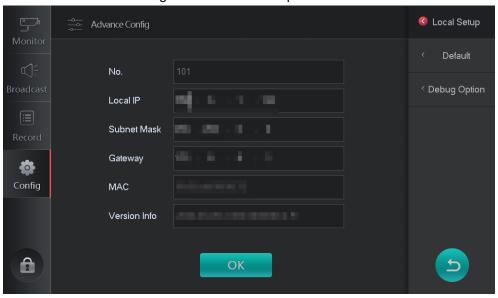


Step 3 Tap OK.



The login password is 888888 by default, and it cannot be modified.

Figure 4-14 Local setup



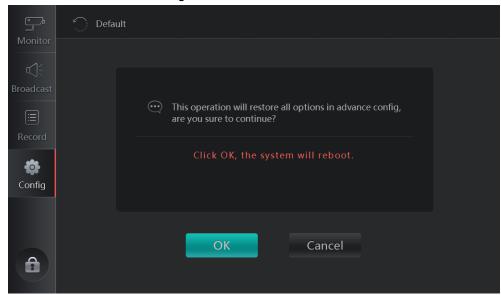
4.2.6.1 Default

Select Config > Advanced Config > Default. The Default interface is displayed. See Figure 4-15. Tap OK to restore all options except the IP address in advance configuration to the default value, and the device will restart.



After restoring the device, password initialization will be required when you log in to the web interface.

Figure 4-15 Default



4.2.6.2 Local Setup

You can modify VTS number, local IP address, subnet mask, and gateway; and view the MAC address and version information. See Figure 4-14.

Enter the number according to the actual situation, and tap **OK**.

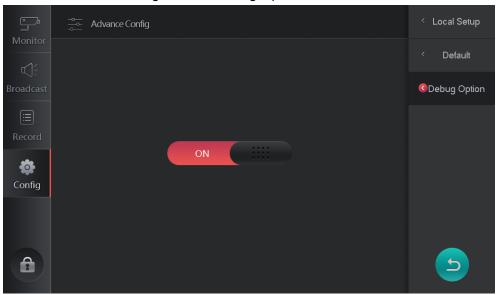
4.2.6.3 Debug Option

Select **Config > Advanced Config > Debug Option**. The **Debug Option** interface is displayed.

See Figure 4-16. Tap to enable or disable the SSH debug function.

If you have enabled the SSH function on the web interface, the function is enabled in this interface. For details, see "3.4.1.1Local Setup."

Figure 4-16 Debug Option



4.3 Monitor

The VTS can monitor the terminals including VTT, VTA, and IPC, and talk with the VTS in the network.



Before monitoring, add the corresponding terminals and IPC. For the detailed operation of adding terminals, see "3.5.1.1.1 Adding Device"; for the detailed operation of adding IPC, see "3.5.1.2 IPC Information."

4.3.1 Device

You can do operations on the added devices (VTT and VTA) such as monitor, switch, call, record, and snapshot.

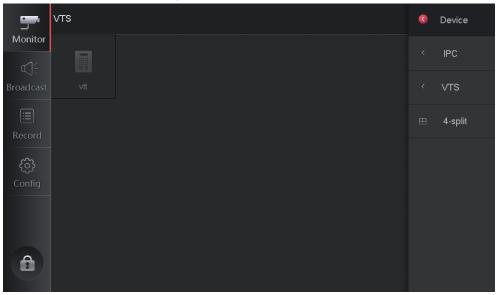
This section takes VTT as an example.

Step 1 Select Monitor > Device.



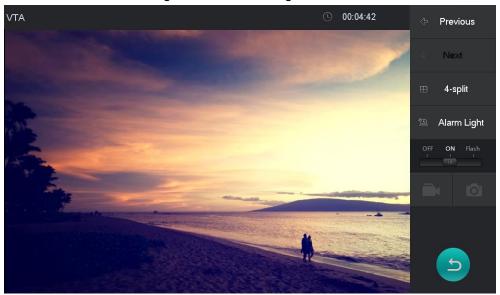
When the icon is highlighted, you can monitor the device.

Figure 4-17 Device



Step 2 Tap the VTT icon.

Figure 4-18 Monitoring

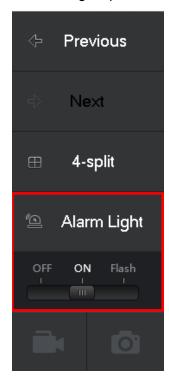


Step 3 Do the operation as the description of Table 4-1.

Table 4-1 Monitor description

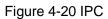
	Table 4-1 Monitor description	
Icon/Parameter	Description	
Previous	When the VTS connects to several devices, tap Previous or Next to	
Next	switch the monitoring image.	
Split	Tap Split , and the 4-split interface is	displayed. For details, see "4.3.4
	4-split."	
Alarm light	The function is available on VTA.	
	1. Tap Alarm Light, and the interface shown in Figure 4-19 is	
	displayed.	
	2. Tap the OFF , ON or Flash button to make the alarm light of VTS in	
	the corresponding status.	
3 %	Tap , you can hear the sound fro	om the device which is calling, and
	the icon changes to (3)); tap (3)) again to stop monitor.	
€ 0 €	Tap , you can talk with the devi	ice which is calling, and the icon
	changes to to stop the call.	
	Tap to start recording video,	
	and the icon changes to ; tap	 When there is no SD card in the VTS, the icon is gray.
	again to stop the recording	 The snapshot and recorded
	video.	videos are stored in the SD
	Tap to capture pictures.	card.

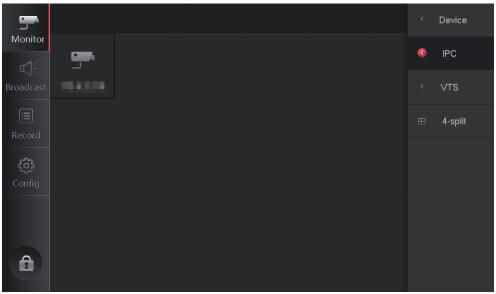
Figure 4-19 Alarm light operation.



4.3.2 IPC

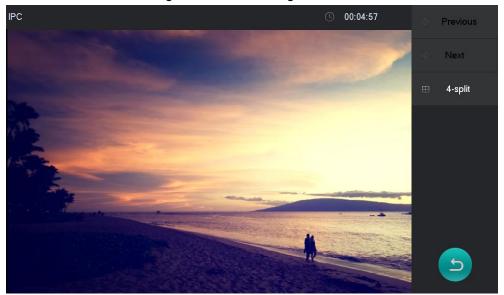
You can do operations on the added IPC such as monitor, switch, call, record, and snapshot. Step 1 Select **Monitor > IPC**.





Step 2 Tap the IPC icon.

Figure 4-21 Monitoring



Step 3 Do the operation as the description of Table 4-1.

4.3.3 VTS

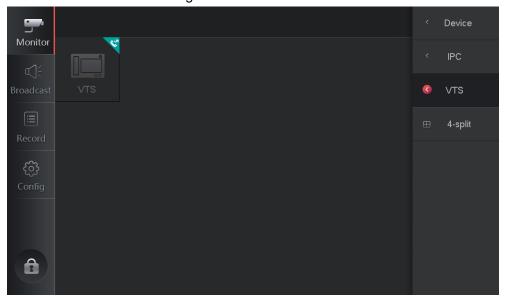
You can call and control the online VTS that has been added.

4.3.3.1 Call

Step 1 Select Monitor > VTS.



The highlighted icon means the VTS is online, and you can call the VTS. Figure 4-22 VTS



Step 2 Tap the highlighted icon to call the VTS.

When the other device answers the call, the calling interface is displayed. See Figure 4-24. For details, see Table 4-2.



The camera is not on in Figure 4-24; when the camera is on, there will be monitoring image on the interface.

Figure 4-23 Calling

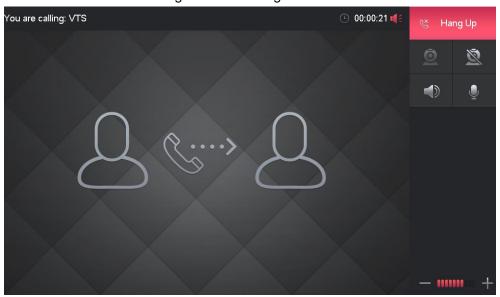


Figure 4-24 Talking

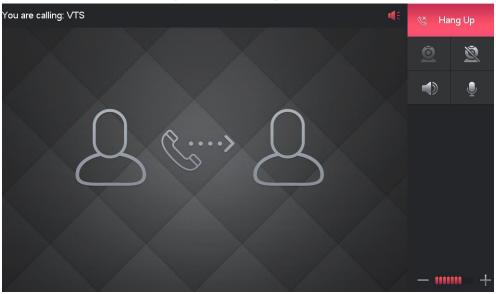


Table 4-2 Icon description

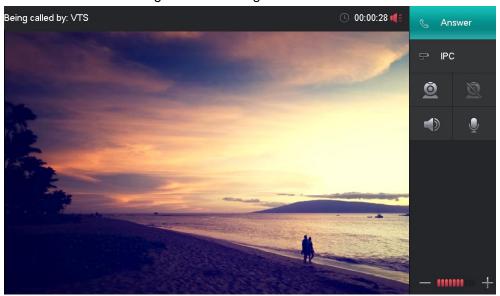
Icon	Meaning
<u>©</u>	Tap to allow the other device monitoring the local video.
Ž	Tap to forbidden the other device monitoring the local video.
	Tap , and the VTS will not play the audio of the other device.
•	Tap , and the other device cannot receive the audio of the VTS.

Icon	Meaning	
— ••••••• +	Adjust the talking volume.	
4 €	Indicates that the VTS is in handsfree mode; when you use handset, the icon changes to	

4.3.3.2 Answer

When VTS calls, the answering interface is displayed.





Step 1 Tap Answer or the handsfree button to answer the call. See Figure 4-26. For details, see Table 4-2.

Figure 4-26 Busy



Step 2 (Optional) Tap IPC to enter the device list. See Figure 4-27. Select an IPC to do monitoring operation. Tap to go to the calling interface.

Figure 4-27 IPC monitoring



Step 3 Tap **End** to end the call.

4.3.4 4-split

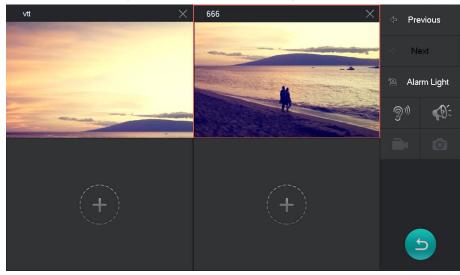
You can monitor max. 4 terminals and IPCs at same time, and do operations on them. Step 1 Select **Monitor > 4-split**.

Figure 4-28 4-split



Step 2 Tap , and select the terminal or IPC as needed.

Figure 4-29 4-Split monitoring



Step 3 Tap the window of a certain device to control the device. For details, see Table 4-1.

4.4 Broadcast

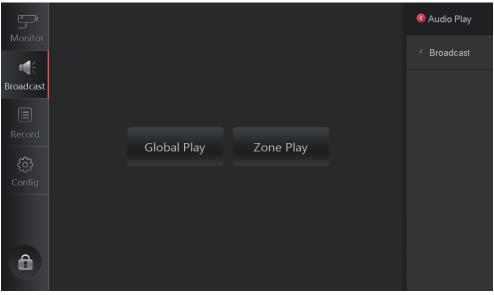
It is used for audio play or broadcast.

4.4.1 Audio Play

4.4.1.1 Global Play

Step 1 Select Broadcast > Audio Play.

Figure 4-30 Audio play



Step 2 Tap Global Play.

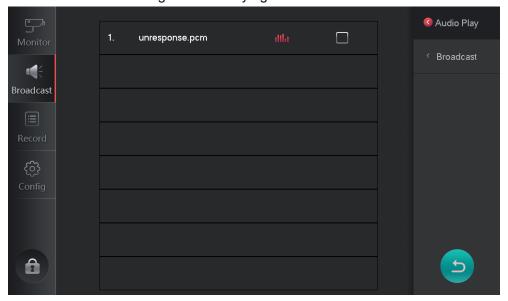
Figure 4-31 File list



Step 3 Tap to start playing the audio files of terminal devices. See Figure 4-32.

Tap to stop playing.

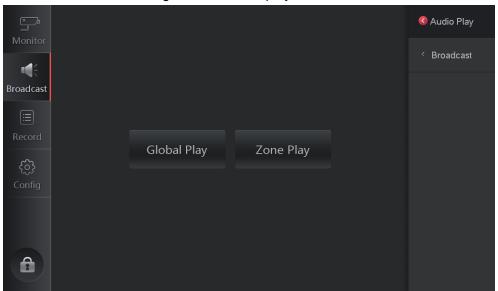
Figure 4-32 Playing audio



4.4.1.2 Zone Play

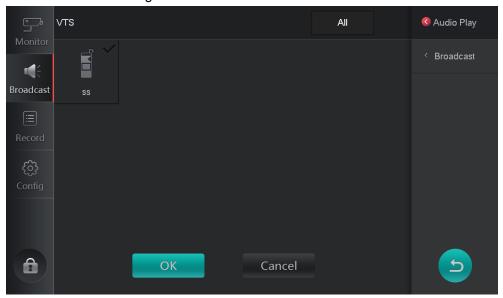
Step 1 Select Broadcast > Audio Play.

Figure 4-33 Audio play



Step 2 Tap Zone Play.

Figure 4-34 Select the device



Step 3 Select the device, and tap **OK**.

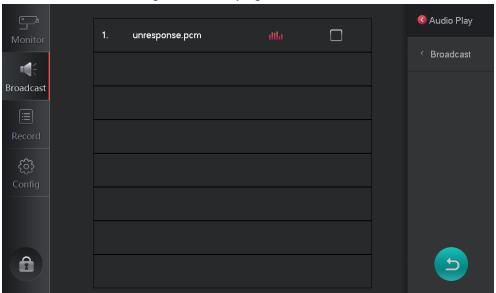
Figure 4-35 File List



Step 4 Tap to start playing the audio files of terminal devices. See Figure 4-32.

Tap to stop playing.

Figure 4-36 Playing audio

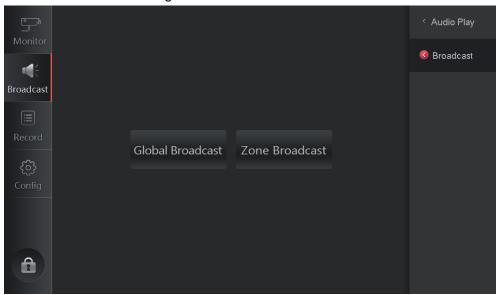


4.4.2 Broadcast

4.4.2.1 Global Broadcast

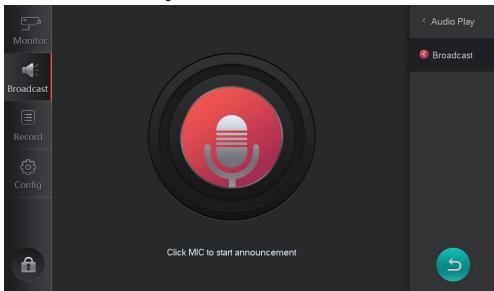
Step 1 Select Broadcast > Broadcast.

Figure 4-37 Broadcast



Step 2 Tap Global Broadcast.

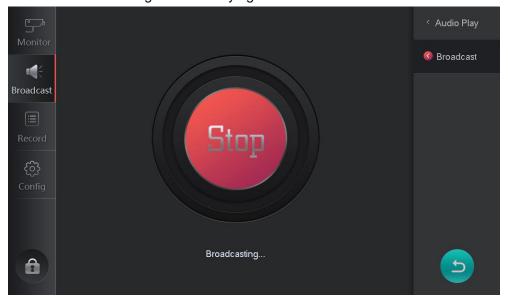
Figure 4-38 Broadcast



Step 3 Tap to talk with the terminal devices or IPC. See Figure 4-39.

Tap to stop broadcast.

Figure 4-39 Playing broadcast

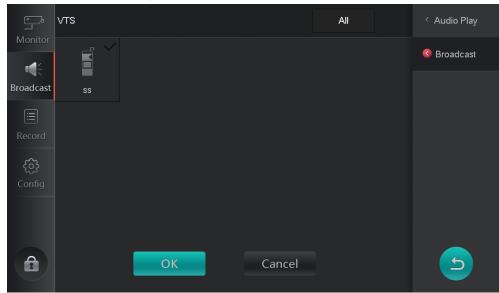


4.4.2.2 Zone Broadcast

Step 1 Select **Broadcast > Broadcast** (Figure 4-37).

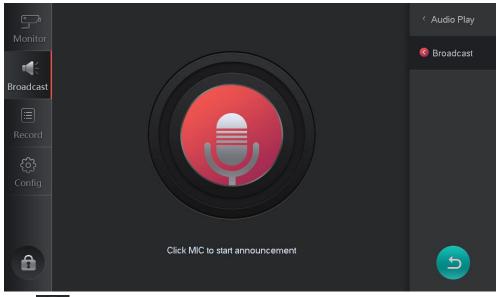
Step 2 Tap Zone Broadcast.

Figure 4-40 Select the device



Step 3 Select the device, and tap **OK**.

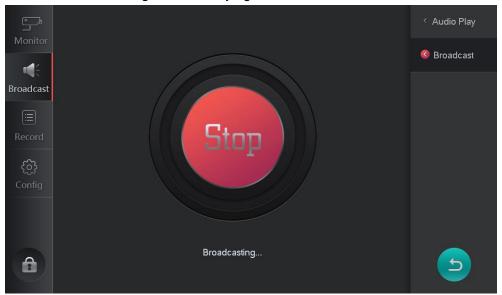
Figure 4-41 Broadcast



Step 4 Tap to talk with the terminal devices or IPC. See Figure 4-39.

Tap to stop broadcast.

Figure 4-42 Playing broadcast



4.5 Record

You can view missed calls, answered calls, dialed calls, record, and snapshot.

4.5.1 Missed, Answered, Dialed

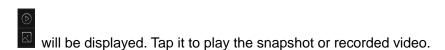
This section takes Missed as an example.

Select **Record > Missed**. See Figure 4-43. White indicates read, and red indicates unread.

Tap to go to the monitoring image of corresponding device.

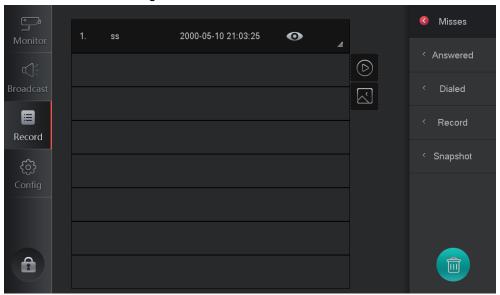
If the terminal device is VTS, the icon will not be displayed. You cannot do monitoring.

• If there is snapshot or recorded video during this record, will be displayed. Tap it, and



Tap to delete all Missed records.

Figure 4-43 Missed records



4.5.2 Video Recording

Select **Record** > **Record**. See Figure 4-44. Select a record, and then tap to play the recorded video. See Figure 4-45. Tap to exit the playback interface.



Tap to delete all records.

Figure 4-44 Video recording

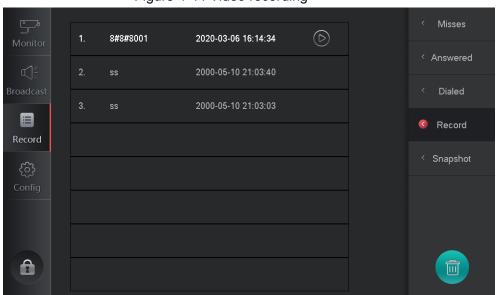


Figure 4-45 Recording playback



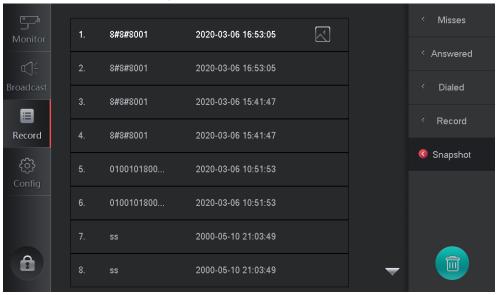
4.5.3 Snapshot

Select **Record > Snapshot**. See Figure 4-46. Select a record, and then tap to view snapshots.



Tap to delete all snapshot records.

Figure 4-46 Snapshot



Appendix 1 Cybersecurity Recommendations

Cybersecurity is more than just a buzzword: it's something that pertains to every device that is connected to the internet. IP video surveillance is not immune to cyber risks, but taking basic steps toward protecting and strengthening networks and networked appliances will make them less susceptible to attacks. Below are some tips and recommendations on how to create a more secured security system.

Mandatory actions to be taken for basic equipment network security:

1. Use Strong Passwords

Please refer to the following suggestions to set passwords:

- The length should not be less than 8 characters;
- Include at least two types of characters; character types include upper and lower case letters, numbers and symbols;
- Do not contain the account name or the account name in reverse order;
- Do not use continuous characters, such as 123, abc, etc.;
- Do not use overlapped characters, such as 111, aaa, etc.;

2. Update Firmware and Client Software in Time

- According to the standard procedure in Tech-industry, we recommend to keep your equipment (such as NVR, DVR, IP camera, etc.) firmware up-to-date to ensure the system is equipped with the latest security patches and fixes. When the equipment is connected to the public network, it is recommended to enable the "auto-check for updates" function to obtain timely information of firmware updates released by the manufacturer.
- We suggest that you download and use the latest version of client software.

"Nice to have" recommendations to improve your equipment network security:

1. Physical Protection

We suggest that you perform physical protection to equipment, especially storage devices. For example, place the equipment in a special computer room and cabinet, and implement well-done access control permission and key management to prevent unauthorized personnel from carrying out physical contacts such as damaging hardware, unauthorized connection of removable equipment (such as USB flash disk, serial port), etc.

2. Change Passwords Regularly

We suggest that you change passwords regularly to reduce the risk of being guessed or cracked.

3. Set and Update Passwords Reset Information Timely

The equipment supports password reset function. Please set up related information for password reset in time, including the end user's mailbox and password protection questions. If the information changes, please modify it in time. When setting password protection questions, it is suggested not to use those that can be easily guessed.

4. Enable Account Lock

The account lock feature is enabled by default, and we recommend you to keep it on to guarantee the account security. If an attacker attempts to log in with the wrong password several times, the corresponding account and the source IP address will be locked.

5. Change Default HTTP and Other Service Ports

We suggest you to change default HTTP and other service ports into any set of numbers between 1024~65535, reducing the risk of outsiders being able to guess which ports you are using.

6. Enable HTTPS

We suggest you to enable HTTPS, so that you visit Web service through a secure communication channel.

7. Enable Whitelist

We suggest you to enable whitelist function to prevent everyone, except those with specified IP addresses, from accessing the system. Therefore, please be sure to add your computer's IP address and the accompanying equipment's IP address to the whitelist.

8. MAC Address Binding

We recommend you to bind the IP and MAC address of the gateway to the equipment, thus reducing the risk of ARP spoofing.

9. Assign Accounts and Privileges Reasonably

According to business and management requirements, reasonably add users and assign a minimum set of permissions to them.

10. Disable Unnecessary Services and Choose Secure Modes

If not needed, it is recommended to turn off some services such as SNMP, SMTP, UPnP, etc., to reduce risks.

If necessary, it is highly recommended that you use safe modes, including but not limited to the following services:

- SNMP: Choose SNMP v3, and set up strong encryption passwords and authentication passwords.
- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up strong passwords.
- AP hotspot: Choose WPA2-PSK encryption mode, and set up strong passwords.

11. Audio and Video Encrypted Transmission

If your audio and video data contents are very important or sensitive, we recommend that you use encrypted transmission function, to reduce the risk of audio and video data being stolen during transmission.

Reminder: encrypted transmission will cause some loss in transmission efficiency.

12. Secure Auditing

- Check online users: we suggest that you check online users regularly to see if the device is logged in without authorization.
- Check equipment log: By viewing the logs, you can know the IP addresses that were used to log in to your devices and their key operations.

13. Network Log

Due to the limited storage capacity of the equipment, the stored log is limited. If you need to save the log for a long time, it is recommended that you enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.

14. Construct a Safe Network Environment

In order to better ensure the safety of equipment and reduce potential cyber risks, we recommend:

- Disable the port mapping function of the router to avoid direct access to the intranet devices from external network.
- The network should be partitioned and isolated according to the actual network needs.
 If there are no communication requirements between two sub networks, it is

- suggested to use VLAN, network GAP and other technologies to partition the network, so as to achieve the network isolation effect.
- Establish the 802.1x access authentication system to reduce the risk of unauthorized access to private networks.
- It is recommended that you enable your device's firewall or blacklist and whitelist feature to reduce the risk that your device might be attacked.