# HIKVISION

# Network Amplifier

**User Manual** 

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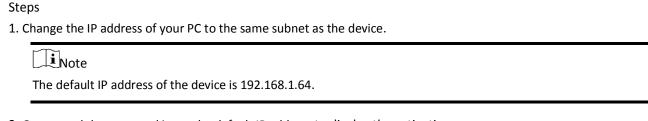
The symbols that may be found in this document are defined as follows.

Symbol	Description
Note	Provides additional information to emphasize or supplement important points of the main text.
<b>!</b> Caution	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
<u> </u>	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

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# Chapter 1 Activate Device via Web Client



 $2.\ \mbox{Open}$  a web browser and input the default IP address to display the activation page.

# <u></u>Caution

We highly recommend you create a strong password of your own choosing (the password should be between 8 and 16 characters and contain at least 2 or more of the following types: numbers, lower case letters, upper case letters, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

3. If there are multiple devices in your network, please modify the device IP address to prevent device access exception caused by conflicting IP address. After you log in to the device, you can go to **Configuration** → **Network** → **Network Configuration** → **TCP/IP** to modify parameters such as device IP address, subnet mask, etc.

# **Chapter 2 Web Client Operation Instructions**

## 2.1 System Configuration

In the system configuration column, you can search system information, set system time, user information, etc. Go to **Configuration** → **System** to complete the settings.

#### **Basic Information**

Go to **System Configuration** → **Basic Information** to complete the settings.

Device system information includes device name, device No., device model, device serial No., version information, etc. You can set **Device Name** and **Device No**. and click **Save**.

#### Time Settings

Go to **System Configuration** → **Time Settings** to complete the settings. You can select **Time Zone** and set **Time Synchronization Mode**.

NTP Time Sync

Select **NTP time sync** to set **Server Address**, **NTP Port**, and **Interval**. The device will sync every time according to the settings. And you can click **Test** to verify whether it takes effect.

Manual Time Sync

Select **Manual time sync** and set time. The device will perform time sync according to the set event. If you click **Sync with computer time**, the device time will be the same with the local computer time.

**DST** 

If the region where the device is located adopts Daylight Saving Time (DST), you can set this function. Check **Enable** and select the start time, end time, and DST Bias.

After configuring the parameters, click Save to take effect.

#### System Maintenance

Go to **Maintenance and Security** → **System Maintenance** to complete the settings.

- Reboot Device: Click **Restart** to restart the device.
- Upgrade: When the device program needs to be updated, the device can be upgraded.
   When the device needs to be upgraded, you can copy the upgrade program to the local computer, click □ to select the path of saving the upgrade file, and click **Upgrade** to start upgrading.



After upgrading, the device will reboot automatically. Do not power off during upgrading.

Restore parameter: Restore the device parameter to the factory settings.

Restore

Reset device parameters, except user information, IP parameters and video format to the default settings.

Default

Reset all the parameters to the factory default.



Be careful when using this function. After resetting to the factory default, all the parameters are reset to the default settings.

- Backup device parameter: It is used to export device parameter file. It can be used to configure device with the same parameter, but does not support network parameter backup.
  - 1. Click Export
  - 2. Set encryption password to encrypt the exported device parameter file.
  - 3. Click **OK** to select storage path to export.
- Parameter import: Device parameter is used to import device parameter file, and it is convenient for the user to configure device with the same parameter.
  - 1. Click  $\Box$  , select the storage path of the device parameter file, and click **Open**.
  - 2. Click **Import** to display the prompt.
  - 3. Click **OK**, enter encryption password, and import device parameter file.

#### Security Management

Go to Maintenance and Security  $\rightarrow$  System Maintenance  $\rightarrow$  Security Audit Log to complete the settings. Enable log upload server: After you enable the enable button, you can enter Log Server IP and Log Server Port and click Save to upload the log to the server automatically.

#### **Device Debugging**

Go to Maintenance and Security → System Maintenance → Device Debug to complete the settings.

- Enable SSH: When remote debugging is required, you can swipe to enable SSH. You can log in to the device
  using SSH. Device remote SSH port is 22 by default, and can be edited as needed. When the device is running
  normally, it is recommended not to enable SSH to improve device security.
- Print Log: Click Export to export and print the log.
- Ping Network: Enter Ping network address. Click **Ping Network** to start the test.

Network Capture: Click Start Capture to capture the packet, and click Stop to stop capturing the packet.

#### User Management

Click **Configuration**  $\rightarrow$  **System**  $\rightarrow$  **User Management** to enter the configuration page.

You can click  $\ igs 2$  to change the administrator password.



- The admin is the default user. The user name cannot be edited. Only its password can be edited.
- To ensure the security of account information, it is recommended to set a password between 8 and 16 characters, including at least digits, lowercase letters, uppercase letters, and special characters (!"#\$%&'()\*+,-./:;<=>?@@[\\]^\_`{|}~. space) and cannot contain user name.
- Password length should be less than 8 characters. Password should contain only 1 type of character. Password should be the same as user name, or the password should be the reverse of user name. The above types of passwords are risky. To better protect your privacy and improve product security, it is recommended to change the risky password to high-intensity.
- Password strength rule:
  - 1. If the password contains 3 or more types (digits, lowercase letters, uppercase letters, and special characters), the password security strength is strong.
  - 2. If the password is a combination of digits and special characters, lowercase letters and special characters, uppercase letters and special characters, lowercase letters and uppercase letters, the password security strength is medium.

3. If the password is a combination of digits and lowercase letters, digits and uppercase letters, the password security strength is weak.

# 2.2 Network Configuration

### 2.2.1 Set TCP/IP

#### Steps

- 1. Click Configuration  $\rightarrow$  Network  $\rightarrow$  Network Configuration  $\rightarrow$  TCP/IP to enter the configuration page.
- 2. Configure network parameters.
- 3. Select NIC Type, slide to enable DHCP, and manually enter IPv4 Address, IPv4 Subnet Mask, IPv4 Default Gateway, MTU, Preferred DNS Server address, and Alternate DNS Server address.



Click Test to test if IPv4 address is used.

3. Click **Save** to complete the configuration.

#### 2.2.2 Set Port

Port configuration parameters include HTTP port and HTTPS port. Set corresponding port as needed.

#### Set HTTP(s) Port

Click Configuration  $\rightarrow$  Network  $\rightarrow$  Network Service  $\rightarrow$  HTTP(S) to configure HTTP port and HTTPS port.

#### **HTTP Port**

When you log in with a browser, you need to add the modified port number after the address. If HTTP port No. is changed to 81, you can enter http://192.0.0.65:81 when you log in via browser.

#### **HTTPS Port**

Configure HTTPS port for browser access, and certificate verification is required. Click **Save** to complete the configuration.

#### 2.2.3 Set RTSP

RTSP (Real Time Streaming Protocol) is an application-layer controlling protocol for streaming media.

#### Steps

- 1. Go to Configuration  $\rightarrow$  Network  $\rightarrow$  Network Service  $\rightarrow$  RTSP.
- 2. Enter Port.
- 3. Click Save.

#### 2.2.4 Set Device Access

The device can be operated by mobile client.

#### Steps

- 1. Click **Configuration** → **Network** → **Working Mode** to enter the configuration page.
- 2. Select platform access mode.
  - Select ISUP as platform access mode.
    - Slide **Enable** to select **Protocol Version**.
    - Configure Server Address, set Port No., enter Device ID, and set Secret Key.
  - Select Hik-Connect as platform access mode.
     Slide Enable to enable the mode, check Custom after server address and enter the address. Configure the Verification Code.



Verification code should contain 6 to 12 letters or digits, and it is case sensitive. To ensure device security, it is recommended to set a combination of uppercase letters, lowercase letters, and digits with more than 8 characters.

3. Click Save to complete the settings.

#### 2.2.5 Set SDK Service

If you want to add the device to the client software, you should enable SDK Service.

#### Steps

- 1. Go to Configuration → Network → Platform Access → SDK Service.
- 2. Enter Port.
- 3. Click Save.

# 2.3 Audio Configuration

# 2.3.1 Channel Configuration

iNote

The device should be connected before configuring.

Click **Configuration** → **Audio** → **Channel Configuration** to enter the configuration page. Select input channels and corresponding output channels according to requirements.

## 2.3.2 Audio Configuration

Click **Configuration** → **Audio** → **Audio** to enter the configuration page.

You can drag the slider to configure the input volume and output volume.

You can click <b>Test</b> to test the speaker. You can click <b>Play</b> to play the bell.
iNote
The speakers should be connected.
2.3.3 Other Settings
Click <b>Configuration</b> → <b>Audio</b> → <b>Other Settings</b> to enter the configuration page. You can choose the acoustic fidelity mode according to your needs.
2.4 Bluetooth Configuration
Enable Bluetooth function of the device to match with smart device.
Only certain models support the function.
Only Certain models support the function.
Steps
1. Click <i>Configuration</i> → <i>Bluetooth</i> to enter the configuration page.
<ol> <li>Select to enable Bluetooth.</li> <li>Set Bluetooth Name and Paired Password.</li> </ol>
Note
<ul> <li>It is applicable to network cabinet speakers and network ceiling speakers, please refer to the actual device. Bluetooth default name is Audio- and default password is 2345.</li> </ul>
The default password of Bluetooth is 2345.
<ul> <li>Pairing password should be 4 characters.</li> </ul>

4. Click *Save* to complete the configuration.

# 2.5 Broadcast Settings

# 2.5.1 Material Library

Click **Configuration** → **Broadcast Settings** → **Material Library** to enter the configuration page.

### Set Material Library

- Add custom audio folder: Click +, enter the custom folder name, click **OK** to save the settings.
- ullet Delete custom audio folder: Select the custom audio folder, click  $ar{\mathbb{I}}$  to delete the corresponding folder.

• Edit custom audio folder: Select the custom audio folder, click / to modify the corresponding folder name.

#### Set Audio Folder

#### Steps

- 1. Click **Configuration** → **Broadcast Settings** → **Material Library** to enter the configuration page.
- 2. Click **Batch Import** to go to local file.
- 3. After selecting the local file, click **Open** to import the broadcast material in the file to the broadcast material library.

Note

The file size of material library should not exceed 100M, and can store up to 1000 files. It only supports mp3, MP3, wav, WAV, aac, AAC, mp2 and MP2 formats.

- 4. (Optional) Select the broadcast material and click **Delete** to delete the corresponding broadcast material.
- 5. (Optional) Click <a> to edit material name.</a>
- 6. Click **Save** to finish the settings.

#### Set Alarm Linkage/EVAC/Custom Audio Library

Note

The built-in alarm linkage and EVAC audio libraries cannot be edited or deleted. Please refer to the actual device for details.

#### Steps

- 1. Click Batch Add.
- 2. Select the audio material files, click **Add** to add the broadcast materials to the selected audio library.
- 3. (Optional) Select the broadcast material and click **Delete** to delete the corresponding broadcast material.
- 4. (Optional) Click to edit material name.
- 5. Click **Save** to finish the settings.

## 2.5.2 Scheduled Broadcast Configuration

Add scheduled broadcast task. The device will broadcast according to schedule.

#### Steps

- 1. Click Configuration → Broadcast Settings → Scheduled Broadcast to enter the configuration page.
- 2. Click + Add to create scheduled broadcast task.
- 3. Select Output Channel.
- 3. Slide the Enable button.

- 4. Enter scheduled **Task Name**.
- 5. Select Task Type.
  - Day Schedule: broadcast task will be played at a fixed time every day.
  - Weekly Schedule: broadcast task will be played every week.
- 6. Configure broadcast rule.
  - 1) Select Broadcast Rule.

Audio File

Drag and drop the blue bar on the time line, click **Advanced Configuration**, select **Audio File**, and click **+** to add audio source file in the material library to play.

Speech Synthesis

Drag and drop the yellow bar on the time line, click **Advanced Configuration**, select **Voice Composition**, enter voice content, and select the parameters to broadcast to male or female.

Note

The following rules apply to the content of voice text:

- Punctuation mark will affect the semantics of pronunciation. Please use punctuation mark correctly. Please view the help for using rules of numbers, Chinese and English.
- Number Reading Settings [n1][n2]: The default setting is active judgement. Adding [n1] before a number reads as a number, and adding [n2] before a number reads as a numerical value.
- Word Pronunciation Settings [h1][h2]: The default setting is active judgement. Adding [h1] before a word reads as letters of the word, and adding [h2] before a word reads as the word.
- English Pronunciation Settings for Number 0[00]/[01]: The default [01] number 0 is pronounced as zero in English. Adding [00] before the sentence reads as 0. The number 0 will only take effect when read as a number, i.e. marking as [n1]. When processed as a numerical value 0, marking as [n2], it will be affected by the marking n, and read as a numerical value.
- 2) Slide to adjust volume. Volume range is from 0 to 200. If the volume is over 100, volume gain will be expanded.
- 3) Adjust Broadcast Ratings.

Note

Broadcast ratings should be between 0 and 15.

4) Select Play Mode.

Play Once

Play in the order of audio list. Each audio will be played only once.

Loop

Repeat in order.

 $\bigcap_{\mathbf{i}}_{\mathsf{Note}}$ 

When selecting task type as week schedule, you need to select cycle period.

- 5) Click **Save** to finish the configuration.
- 7. Select **Start Date** and **End Date**.
- 8. Click **Save** to complete the configuration.
- 9. (Optional) Copy broadcast task. Click (a) to copy the current day's audio broadcast schedule to the rest of the week.

## 2.5.3 Strategy Configuration

You can set multiple audio playing strategies through strategy settings.

Click **Configuration** → **Broadcast Settings** → **Strategy Settings** to enter the configuration page.

Enable **Continue Broadcast in Next Day**. The device will continue to broadcast the broadcast at the set time of the next day. Click **Save** to save the settings.

Enable **Resume Play**. The device will replay the audio file, which is played before power-off, after restarting when the function is enabled. Click **Save** to save the settings.

## 2.5.4 Broadcast Priority

You can set the priority of the broadcasts. Priority range: 0 to 15. The higher the value, the higher the priority. You can set the mixing audio volume. When the device performs multiple broadcast tasks simultaneously, it is sorted according to broadcast priority and supports mixing volume adjustment for low priority broadcast tasks.

# 2.6 Alarm Configuration

### 2.6.1 Alarm Input

#### Steps

- 1. Click **Configuration** → **Alarm Configuration** → **Alarm Input** to enter the configuration page.
- 2. After any alarm input No., click \( \neq \) to enter the editing page.
- 3. Set alarm type, alarm name and enable alarm input handling, configure the arming schedule and linkage method.
- 4. Click Save to finish the settings.

# 2.6.2 Alarm Output

#### Steps

- 1. Click **Configuration** → **Alarm Configuration** → **Alarm Output** to enter the configuration page.
- 2. After any alarm output No., click <a> to enter the editing page.</a>
- 3. Set alarm type and delay time, configure the arming schedule.
- 4. Click **Save** to finish the settings.

# 2.6.3 Audio Linkage

#### Steps

- 1. Click Configuration → Alarm Configuration → Audio Linkage to enter the configuration page.
- 2. Select Channel.

	Note
	Please select the audio linkage channel selected in the alarm input.
3. 4. 5. 6.	Set audio file or audio content. Please refer to the chapter of Broadcast Settings for detailed settings. Set broadcast rule, including broadcast ratings, volume and play mode. Configure the arming schedule. Click <b>Save</b> to finish the settings.
2.	6.4 Set EVAC
	You can configure audible alarm output of fire alarm control panel as following steps.
Be	fore You Start
The	e device's EVAC alarm interface is connected to the fire alarm control panel.
Ste	ps
	Note
	The EVAC function varies with models. Please refer to the actual device for details.
1. 2.	Click <b>Configuration</b> → <b>Alarm Configuration</b> → <b>EVAC</b> to enter the configuration page.  Select the channel and select <b>Audio File</b> .
	Go to Configuration → Broadcast Settings → Material Library → EVAC to set audio file.
3.	Click <b>Save</b> to finish the settings.

# Chapter 3 Operation of HikCentral Professional Web Client

You can refer to the **Chapter 2 Login** and **Chapter 34 Broadcast Management** after scanning the following QR code for the detailed operation of HikCentral Professional Web Client.



Figure 3-1 QR Code of Web Client User Manual

# Chapter 4 Operation of HikCentral Professional Control Client

You can refer to the **Chapter 2 Login** and **Chapter 30 Broadcast** after scanning the following QR code for the detailed operation of HikCentral Professional Control Client.



Figure 4-1 QR Code of Control Client User Manual

