VC-Z01 Network Volume Controller

User Guide

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Contents

1. Preface

1.1 Audience

This manual is intended to provide clear operating instructions for those who will configure and manage the VC-Z01 Network Volume Controller. By carefully reading and consulting this guide, users could solve the setting and deployment issues of the VC-Z01 Network Volume Controller.

1.2 Revision History

Document Version	Applicable Firmware Version	Update Content	Update Date
1.1.0	1.1.0	Updated operating instructions for software version v1.0.0	Jul, 2025

2. Overview

2.1 Product Overview

The ZYCOO VC-Z01 Network Volume Controller is a compact network audio control device that allows real-time volume adjustment of ZYCOO speakers within a room or a zone via multicast. It features an automatic lock function to prevent unauthorized operation, ensuring secure usage.

Moreover, VC-Z01 supports scheduled volume control, enabling automatic volume adjustments based on Event Scheduler—ideal for scenarios requiring different volume levels at different times of the day.

It is powered via a PoE network cable and features flexible installation options, supporting both wall-mount installation (with EA-MB1 mounting box) and flush-mount installation (compatible with standard 1-Gang electrical boxes). VC-Z01 is ideal for use in classrooms, meeting rooms, offices, and other indoor environments.

2.2 Product Specifications

VC-Z01 Network Volume Controller Specifications		
Power Input	PoE (IEEE 802.3af/at)	
Mounting	Flush-mounted or Wall-mounted Installation	
Ethernet	10/100Mbps Adaptive	
SIP Audio Stream	MP3 Sampling Rate 8-48KHz, Bit Rate 64-320kbps, Mono or Stereo	

Dimension	114*70*40(mm)	
Weight	210g	

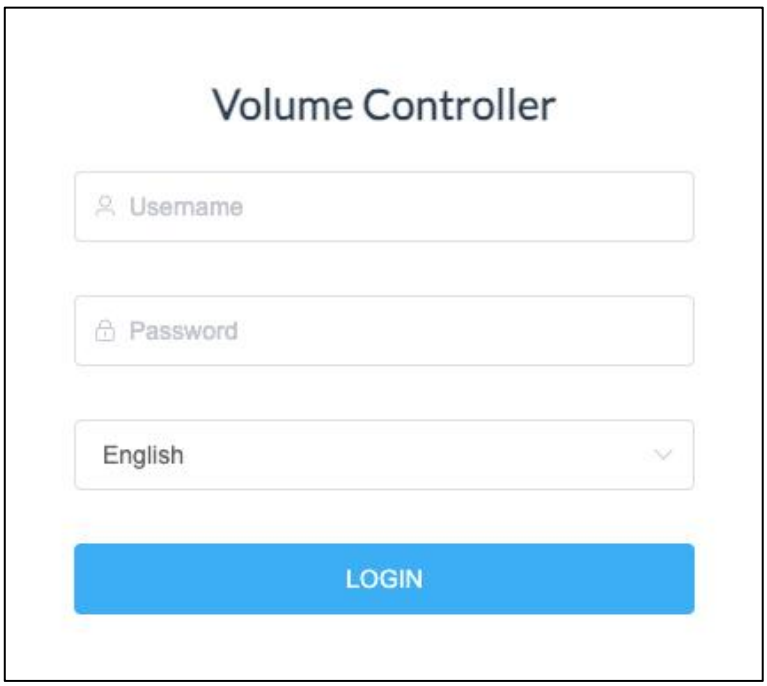
3. Login the Device

3.1 Accessing the Web GUI

VC-Z01 obtains the IP address through DHCP by default, please ensure that there is an available DHCP server in your LAN (If DHCP fails to obtain an address, it will use a static IP address: 192.168.1.101). You can use the SAAD tool to scan for the device's IP address. Enter the IP address in the browser to access the device's Web management interface.

Default username: admin
Default password: admin

For the safety purpose, it is recommended to change the default password on the first login, please go to **System --> Password Settings** page to change the password.

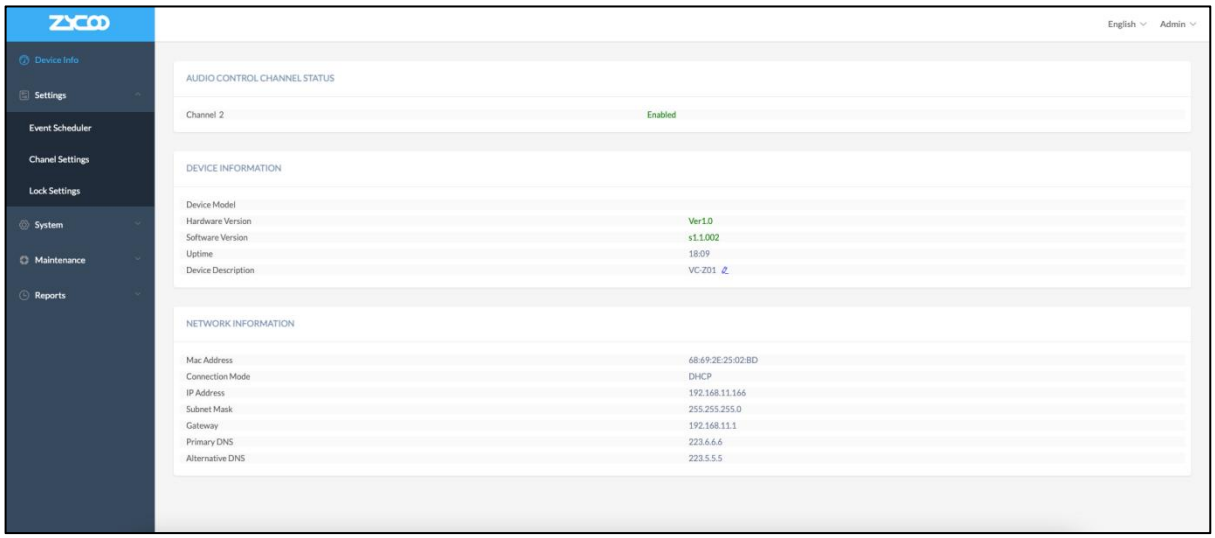


Login Interface

After entering the correct username and password, you can log in to the device's web management interface.

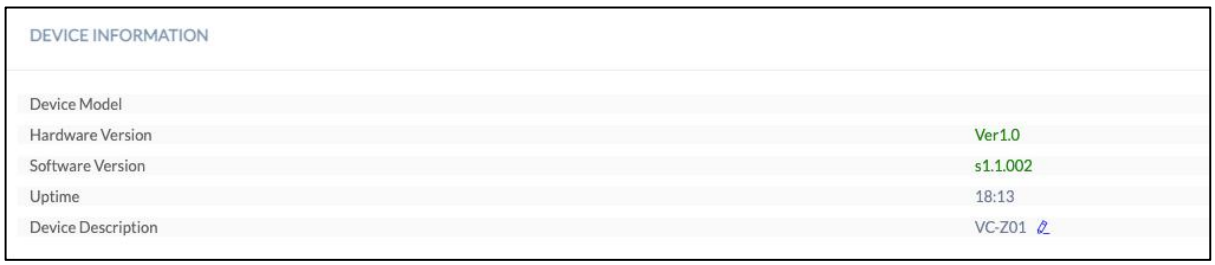
3.2 Device Info

After successful login, you will see the information interface of the device, and you can view the basic information of the device.



Channel Status

- **Channel:** Displays the currently configured multicast channel for remote volume control.



Device Information

- **Device Model:** Displays the model of the device.
- **Hardware Version:** Displays the hardware version number of the device.

- **Software Version:** Display the system version number of the device.
- **Uptime:** Displays the last time the device was started up.
- **Device Description:** Remark the device information. The description will be displayed in a browser tab. After the Device Description is set, the description will be displayed in the browser tab, which is convenient for distinguishing different terminals when there are many terminal configuration pages.

Network Information

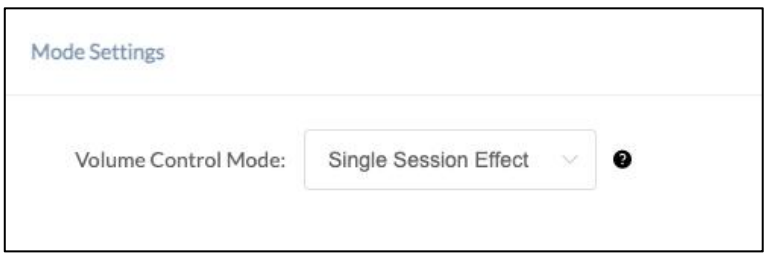
- **Mac Address:** Display the MAC address of the current device.
- **Connection Mode:** Display the network acquisition method of the device, DHCP (dynamic acquisition) or STATIC (static configuration).
- **IP Address:** The current IP address of the device.
- **Subnet Mask:** The current subnet mask of the device.
- **Gateway:** The gateway address currently used by the device.
- **Primary DNS:** The primary domain name server address used by the device.
- **Alternative DNS:** The secondary domain name server address used by the device.

4. Function Settings

4.1 Volume Control Settings

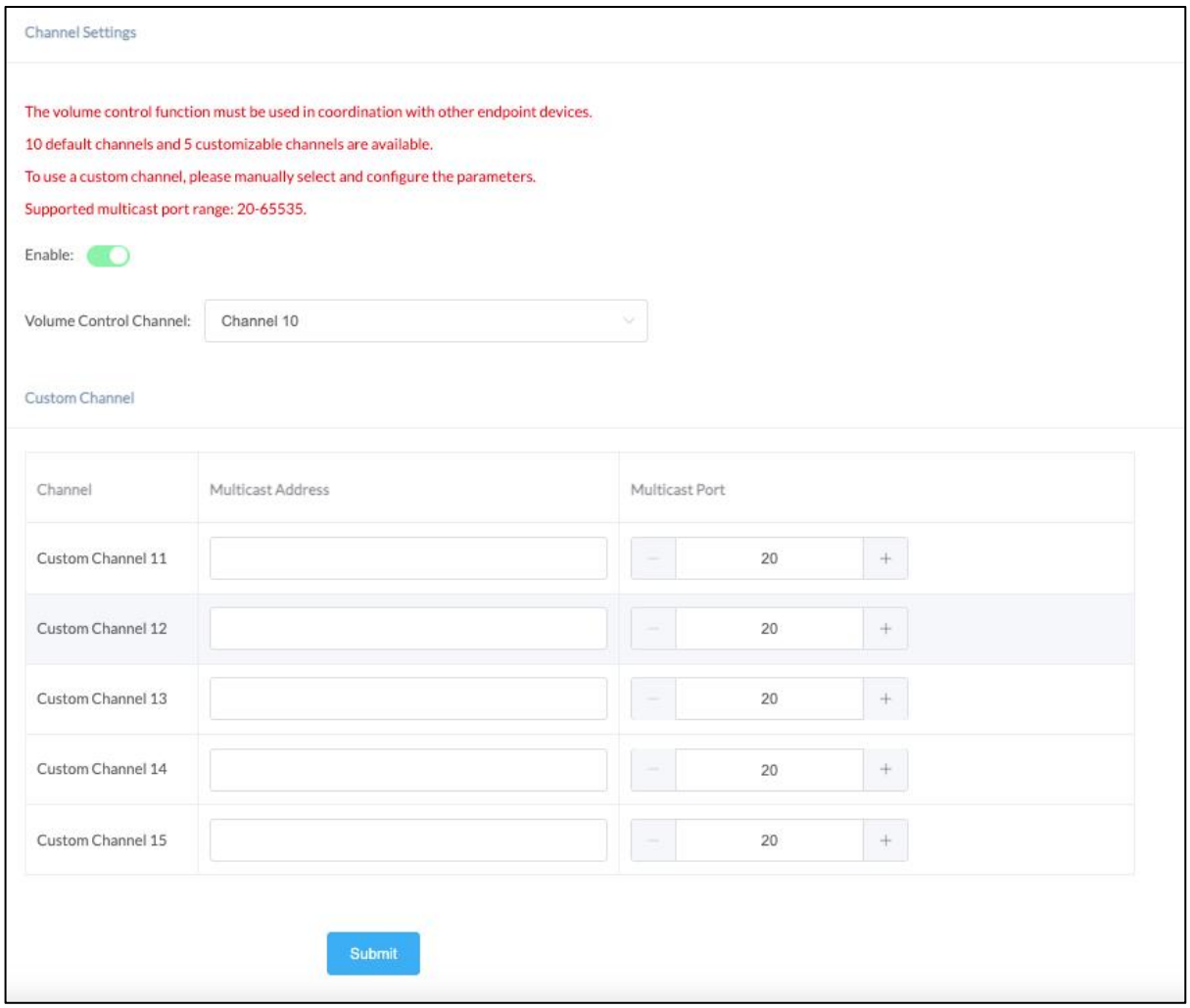
This page is used to configure the volume adjustment mode and multicast channels used for controlling the speakers. You can choose the volume effect mode and set up default or custom channels as needed.

Please go to **Functions --> Volume Control Settings** page to configure.



Mode Settings

- **Volume Control Mode:** This setting determines how volume adjustments affect the target device—whether temporarily for a single session or persistently across multiple sessions. Single Session Effect: The volume adjustment applies only during the current or upcoming single session on the target device (e.g., paging, music playback). Once the session ends, the device will automatically revert to its previous volume level. Persistent Effect: Default setting. The volume adjustment remains in effect on the target device and applies to all subsequent sessions until manually changed again by the user.



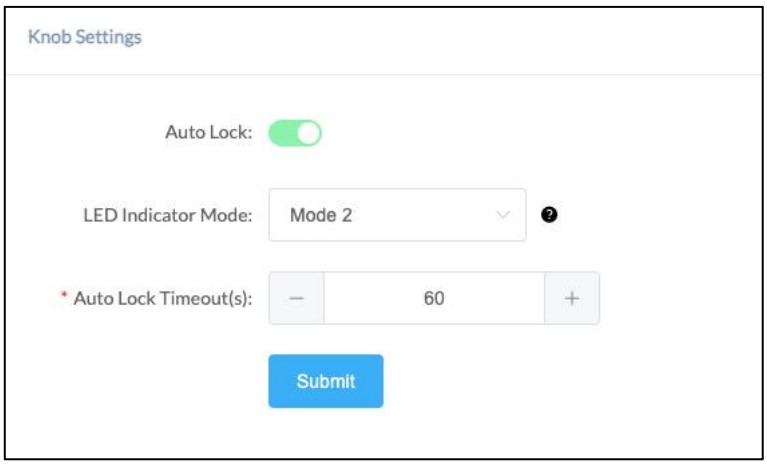
Channel Settings

- **Enable:** To enable remote volume control, VC-Z01 must be configured together with the endpoint devices. This requires settings to be completed on both the VC-Z01 web GUI (this page) and the endpoint web GUI **Advanced → Volume → Remote Control**. Once the channels match between VC-Z01 and the endpoints within the same local network segment, the endpoint device will display a Connected status.
- **Volume Control Channel:** VC-Z01 provides 10 default channels (Channel 1 – 10), and 5 customizable channels (Channel 11 – 15).
- **Custom Channel:** To configure a custom channel (Channel 11–15), you must manually set the multicast address and port. Multicast Address Range: 224.0.0.0 – 239.255.255.255. Supported Port Range: 20 – 65535.

4.2 Knob Settings

This page allows you to configure behavior related to the physical knob, including automatic locking, LED indicator modes, and timeout duration. These settings help enhance both user experience and device security.

Please go to **Functions --> Knob Settings** page to configure these parameters.



Knob Settings

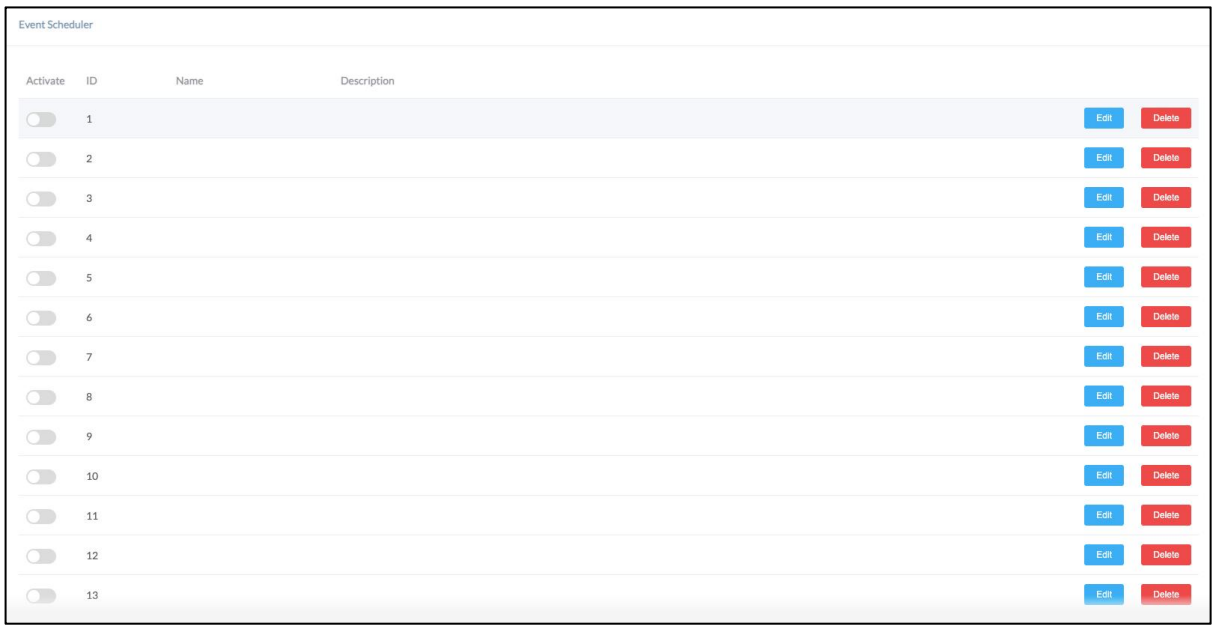
- **Auto Lock:** Enable or disable the automatic locking feature. When enabled, the device will automatically lock after a specified period of inactivity to prevent unauthorized access.
- **LED Indicator Mode:** Choose how the LED indicator behaves when the knob is in a locked state. Mode 1: The LED blinks once every 1 second to indicate the system is powered on and functioning normally. Mode 2: The LED blinks once every 5 second to indicate the system is powered on and functioning normally.
- **Auto Lock Timeout(s):** Set the time (in seconds) for the device to automatically lock after the last interaction.

4.3 Event Scheduler

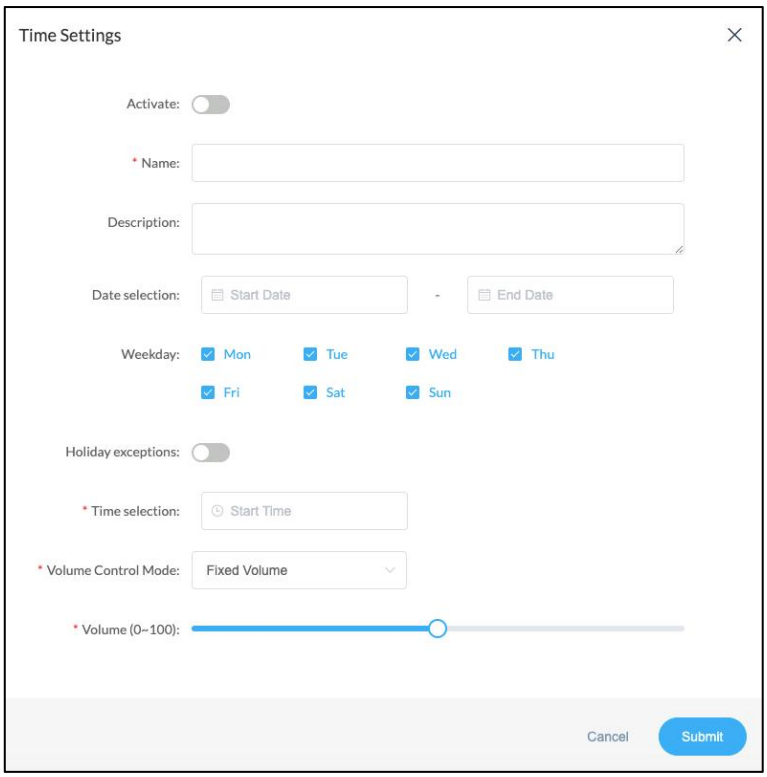
The Event Scheduler allows you to configure up to 30 time-based plans. You can edit or delete existing plans by clicking the corresponding options.

Each plan can be scheduled by specifying the date, day of the week, and time, enabling automatic volume adjustments for the desired endpoint devices at the specified times. Four types of volume control actions are available: Mute, Unmute, Set to a fixed volume level, and Increase/Decrease volume.

To create an event, navigate to **Functions --> Event Scheduler**.



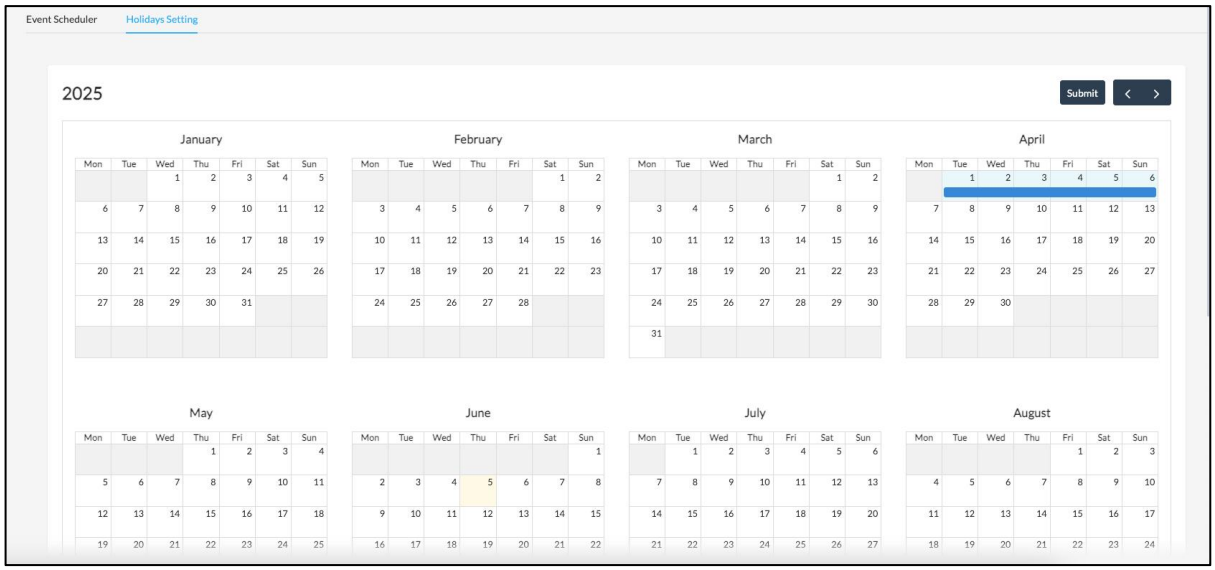
Event Scheduler List



Time Settings

- **Activate:** Activate/Deactivate the schedule.
- **Name:** Set the name of the schedule.
- **Description:** Comment information for the time schedule.
- **Date Selection:** Set the date range for the time schedule.
- **Weekday:** Set the execution week day in the date range.
- **Holiday Exceptions:** Enable the holiday feature or not.
- **Time Selection:** Set the specific time period for executing the action.
- **Volume Control Mode:** This setting defines the specific volume action to be executed at the scheduled time. The available options include: (1) Mute: Silences the selected device completely. (2) Unmute: Restores audio output if the device were previously muted. (3) Fixed Volume: Sets the device to a specific, predefined volume level. (4) Adjust Volume: Increases or decreases the current volume by a specified value.

The Holiday Setting feature allows you to define holidays based on your specific needs. You can choose to enable or disable holiday exception mode for each event schedule, ensuring flexible control over event execution during holiday periods.



Holiday Setting

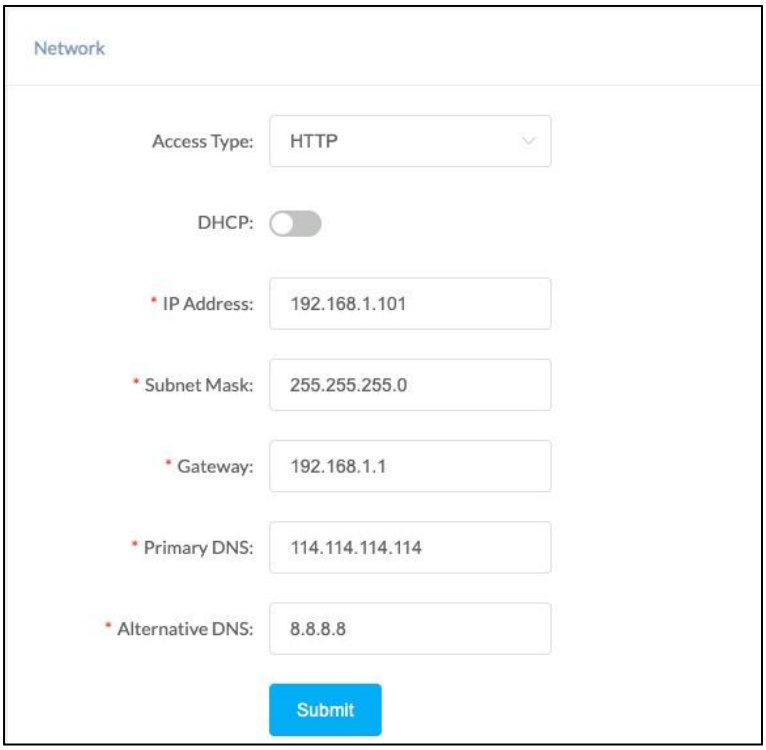
5. System Settings

5.1 Network

VC-Z01 uses DHCP to dynamically obtain IP addresses by default.

To change the IP assignment from DHCP to Static IP, please go to **System--> Network** page.

Turn the DHCP switch button off to show the network parameter settings.



Network Configuration

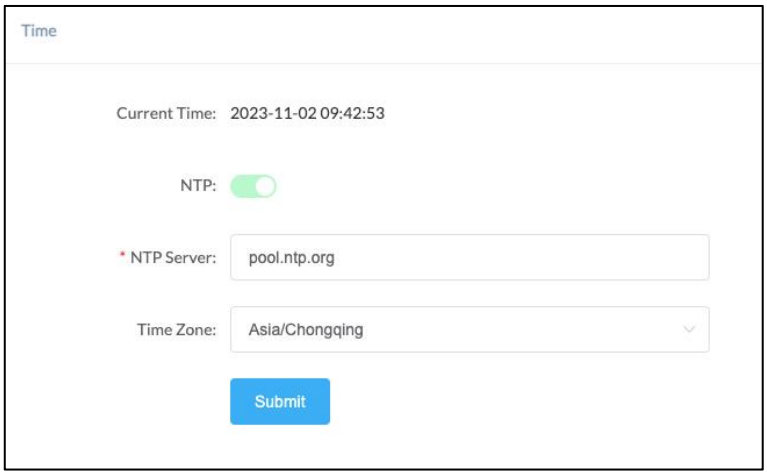
- **Access Type:** Specify the access method of the website, which currently supports HTTP and HTTPS.
- **IP Address:** Enter a vacant IP address within your LAN.
- **Subnet Mask:** Enter the subnet mask of your LAN.
- **Gateway:** Enter the default gateway of your LAN, this is essential for the device when the IP Audio Center or other SIP server is installed outside the LAN.
- **Primary DNS:** Enter an effective primary DNS server address.

- **Alternative DNS:** Enter an alternative DNS server address, when the primary DNS fails, alternative DNS will be used.

5.2 Time

VC-Z01 obtains the time from the network time servers using NTP.

To change the NTP settings, please go to **System --> Time** page.



Time Settings

- **Current Time:** Display the current system time of the device.
- **NTP:** Enable/Disable using NTP to obtain the time.
- **NTP Server:** The network time server used to obtain the time.
- **Time Zone:** Set the time zone used by the device.

5.3 Prompt Language

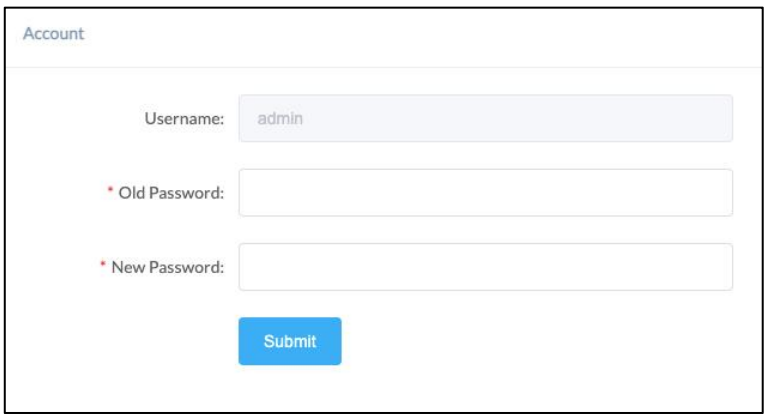
The language of local voice prompts, like IP address announcements. Currently, only Chinese and English are provided.

Please go to **System --> Prompt Language** page to set a voice prompt language.

Prompt Language

5.4 Account

For resetting the current device's password, please go to **System --> Account** page.



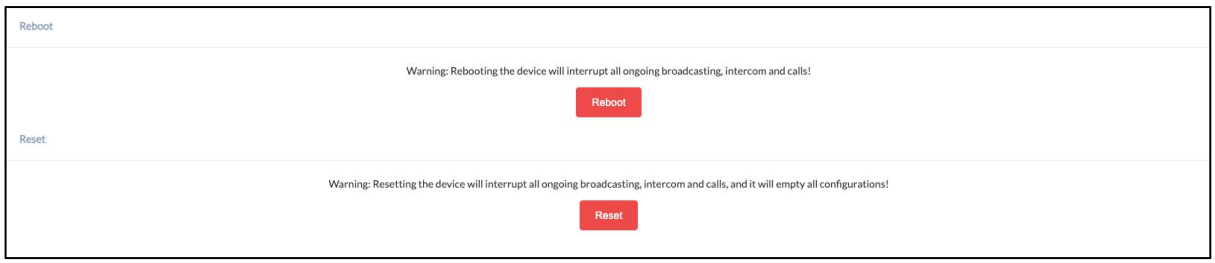
Web Password Settings

- **Old Password:** This setting represents the current user password.
- **New Password:** This setting represents the new password user would like to set up.

5.5 Reboot & Reset

VC-Z01 can be rebooted and reset from the web management interface.

If you need to reboot or reset the device, please go to **System --> Reboot & Reset** page.



Reboot & Reset Settings

Users can restart the device without power failure on this page. The restart process takes about 10 seconds. After the restart is complete, refresh the page to log in again.

If you need to restore the factory settings of the device, you can reset it through this page, the device will enter the state of restoration. After restarting, the pop-up window disappears, and the device is restored successfully.

Note: Restoring factory settings will erase all user settings, please operate with caution!

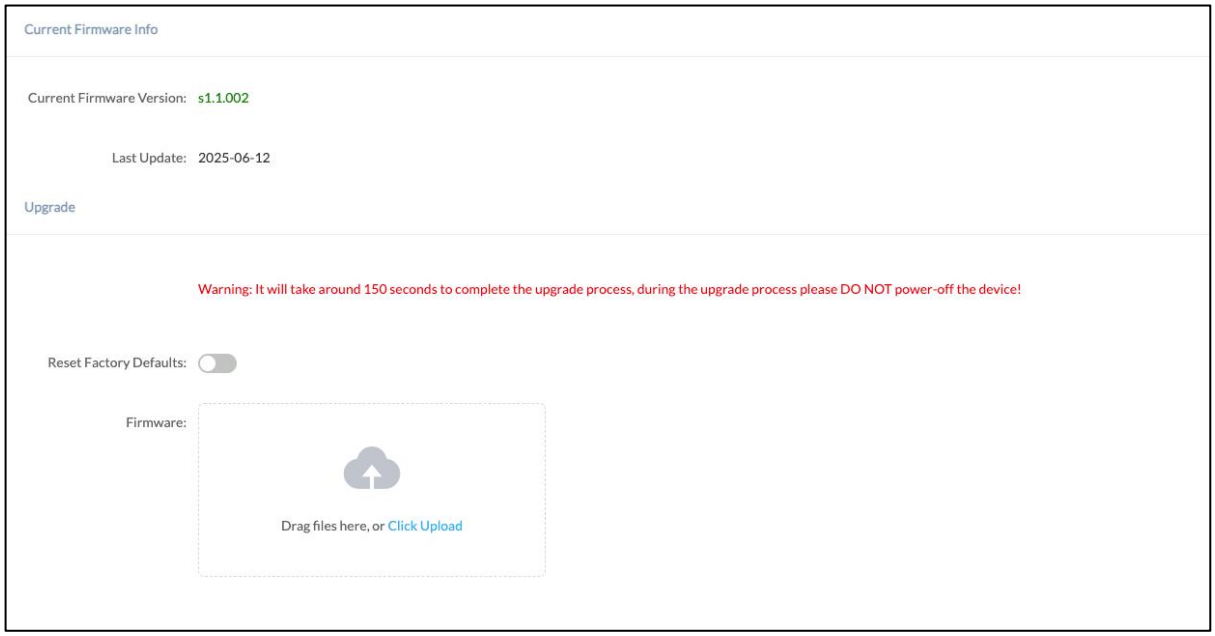
Reboot Schedule

When the Reboot Schedule feature is Enabled, you can set up the automatic reboot daily, weekly, or monthly at a specified time.

6. Maintenance

6.1 Upgrade

To upgrade the device's firmware, please go to **Maintenance --> Upgrade** page.



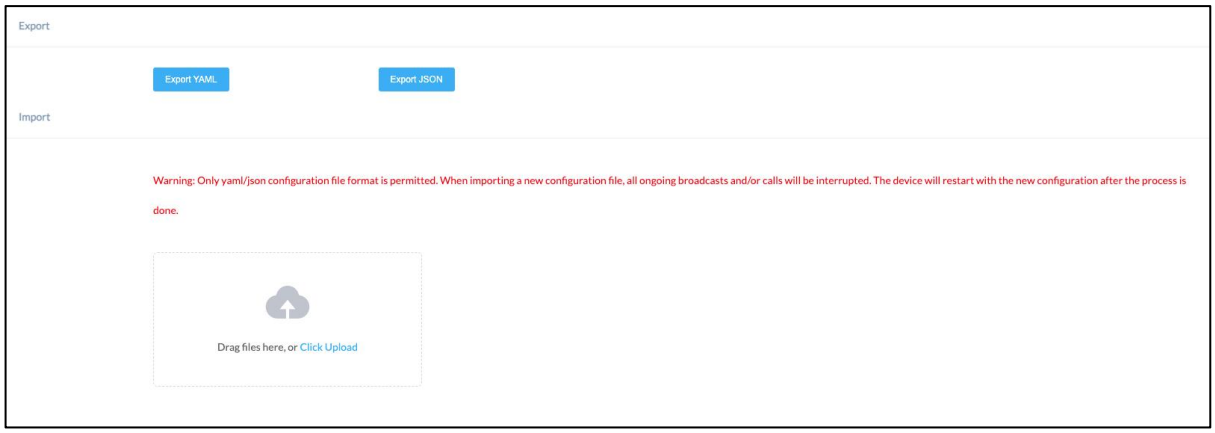
Upgrade Settings

- **Current Firmware Version:** Displays the version currently used by the system.
- **Last Update:** Displays the last system updating time.
- **Reset Factory Defaults:** Specify whether to restore factory settings when upgrading.
- **Firmware:** Click to select the firmware that needs to be used to upgrade the current device.

6.2 Import/Export

This page is used to import and export the current configuration of the device, and you may use this configuration file to backup and/or recover. Both YAML and JSON formats are supported.

Please go to **Maintenance --> Import/Export** page to backup or recover.



Import/Export

6.3 Auto Provisioning

The system is supporting DHCP Option 066 and static TFTP/HTTP two auto provisioning methods.

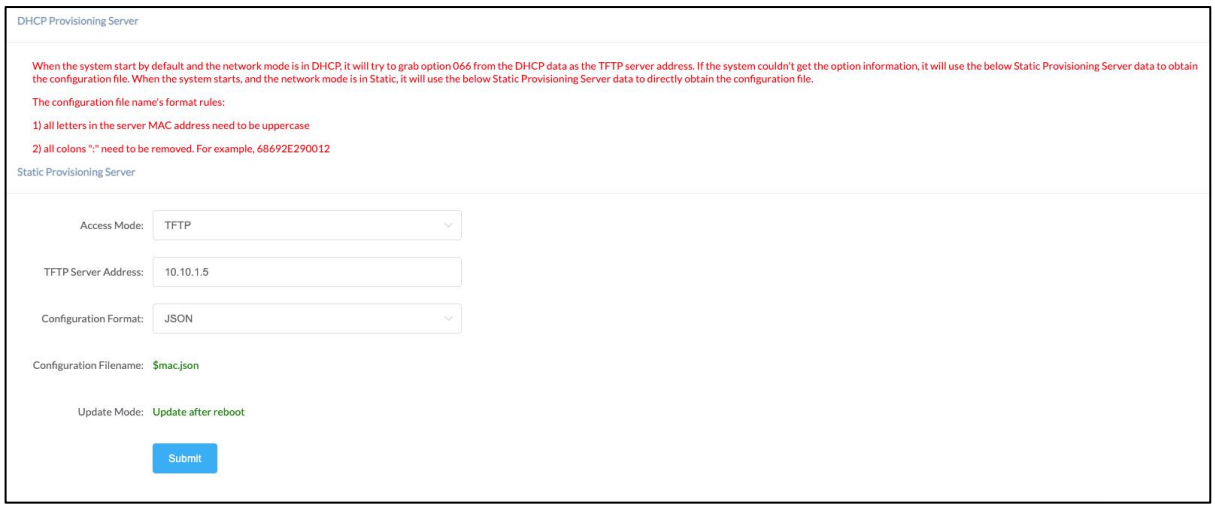
When the system starts by default and the network mode is in DHCP, it will try to grab option 066 from the DHCP data as the TFTP server address. If the system couldn't get the option information, it will use the below Static Provisioning Server data to obtain the configuration file. When the system starts, and the network mode is in Static, it will use the below Static Provisioning Server data to directly obtain the configuration file.

The configuration file name's format rules:

1) all letters in the server MAC address need to be uppercase.

2) all colons ":" need to be removed. For example, 68692E290012.

Please go to **Maintenance --> Auto Provisioning** page to configure static server.



Auto Provisioning

6.4 Diagnostic

Ping is a network administration utility or tool used to test connectivity on an IP network. Input other devices' IP addresses and click on the submit button to trace the network route.

Please go to **Maintenance --> Diagnostic** page to execute ping command.

Ping

6.5 Ethernet Capture

The purpose of the Ethernet capture tool is to capture Ethernet network packets and store them in a standard Wireshark-compatible packet capture '.pacp' file for immediate viewing and data analysis.

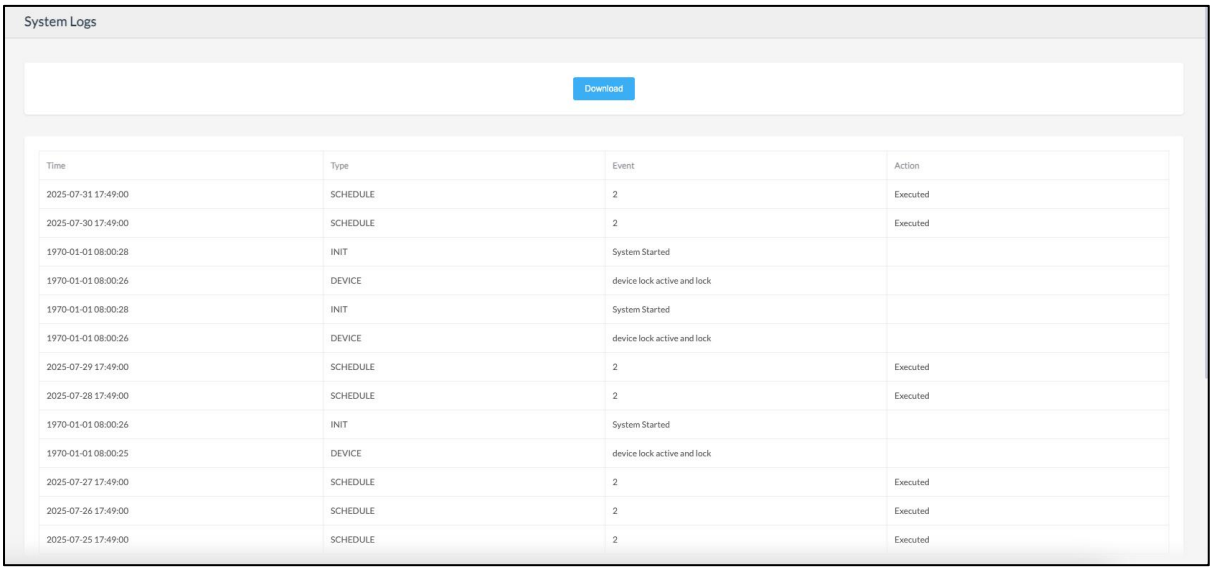
Please go to **Maintenance --> Ethernet Capture** page to operate.

Ethernet Capture

7. Reports

7.1 System Logs

System Logs allows you to check the event related information such as Operating Time, Operating Type (VOLUME, Function, BUTTON...), Event and Action details. Please go to **Reports --> System Logs** page to view the logs. Click the Download button and the .csv log file will be saved on your computer.



System Logs

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