

VIVOTEK

A Delta Group Company

AU-003

AU-004

IP Network Audio Solution

User's Manual

Content

1. Introduction	3
2. Web Configuration	3
2.1 Status	4
2.2 Basic.....	5
2.2.1 Date/ Time.....	5
2.2.2 Network.....	6
2.3 ONVIF.....	6
2.4 SIP Account.....	7
2.5 Audio	8
2.6 Media File	9
2.7 Alarm	9
2.7.1 Alarm In	9
2.7.2 HTTP URL	10
2.8 Schedule	11
2.9 RTP Multicast.....	11
2.10 Firewall	13
2.11 System	13
2.11.1 Upgrade	13
2.11.2 Security.....	14

1. Introduction

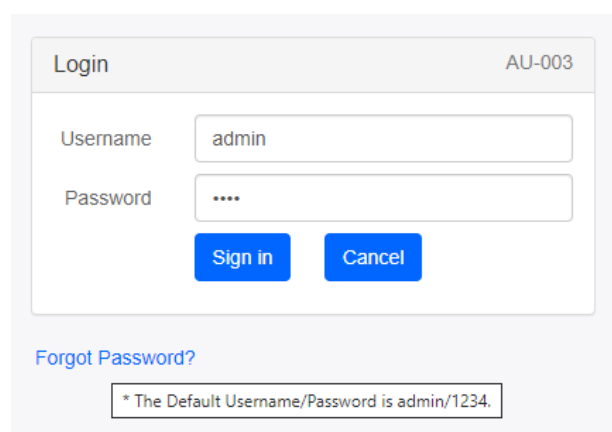
VIVOTEK AU-003 and AU-004 are IP based paging speakers. They have different shapes and designs that can be easily installed indoors and outdoors. IP speakers are well compatible with SIP & ONVIF protocols that can be used in VoIP and security fields. AU-003 and AU-004 are compatible with VSS Pro VMS, this is the next generation network based on TCP/ IP audio broadcasting technology, with standard SIP protocol to support one-by-one VoIP call or Multicast Broadcast protocol to allow users to broadcast multiple audio devices. With VSS alarm management, all the triggering events can be set for auto broadcasting. Both devices support pre-recorded messages and scheduled broadcasting to meet various paging demands. The 48K OPUS Audio Codec enables excellent sound quality to make announcements, play background music, and provide security alarms in schools, factories, hospitals, etc.

2. Web Configuration

Web configuration includes a complete function setting. The default IP is set to DHCP, please search the IP and access via web browser when the device and your computer are under the same network.

Default username: admin

Default password: 1234



The screenshot shows a web browser window displaying the login page for a VIVOTEK AU-003 device. The page has a light gray header with the word "Login" on the left and "AU-003" on the right. Below the header, there are two input fields: "Username" with the text "admin" and "Password" with four dots. Below these fields are two blue buttons: "Sign in" and "Cancel". At the bottom of the page, there is a link "Forgot Password?" and a small box containing the text: "* The Default Username/Password is admin/1234."

2.1 Status

You can check out the firmware version, free space and two SIP accounts status of IP speaker. Users can also locate the current network information here, like MAC, IP address, gateway, etc.

The screenshot displays the VIVOTEK web interface. On the left is a navigation menu with the following items: Status (highlighted), Basic, ONVIF, SIP Account, Audio, Media File, Alarm, Schedule, RTP Multicast, Firewall, and System. The main content area is divided into two sections. The top section, titled 'Status', lists the following information: Model Name (AU-003), Device Time (2023-10-27 16:13:48), Device ID (50359284B0578B1C), Firmware Ver (V1.0.1-VVTK), Free Space (3652KB), SIP1 Status (NONE), and SIP2 Status (NONE). The bottom section, titled 'Network', lists: MAC Address (A2:C0:A4:20:14:75), IP Address (10.42.2.117), Subnet Mask (255.255.254.0), Gateway (10.42.2.1), Primary DNS (10.135.1.51), and Secondary DNS (10.135.101.51). A 'Refresh' button is located at the bottom right of the Network section.

Status	
Model Name	AU-003
Device Time	2023-10-27 16:13:48
Device ID	50359284B0578B1C
Firmware Ver	V1.0.1-VVTK
Free Space	3652KB
SIP1 Status	NONE
SIP2 Status	NONE

Network	
MAC Address	A2:C0:A4:20:14:75
IP Address	10.42.2.117
Subnet Mask	255.255.254.0
Gateway	10.42.2.1
Primary DNS	10.135.1.51
Secondary DNS	10.135.101.51

Refresh

2.2 Basic

2.2.1 Date/ Time

There are two update modes for time: NTP/ local time. Set the time zones, NTP server and interval when choosing the NTP mode.

Date/Time

Device Time 2023-10-27 16:57:34

Update Mode ▼

TimeZone ▼

NTP Server

NTP Interval Minutes

Save

Date/Time

Device Time 2023-10-27 16:57:34

Update Mode ▼

LocalTime 2023-10-27 16:58:07

Save

2.2.2 Network

The default setting of AU-003 & AU-004 is DHCP; use Shepherd to search the IP, then log in on web browser.

Status IP address:.

Network

DHCP

Static IP Address

IP Address	10.42.2.9
Subnet Mask	255.255.254.0
Gateway	10.42.2.1
Primary DNS	10.135.1.51
Secondary DNS	10.135.101.51

[Save](#)

2.3 ONVIF

Select Enable ONVIF, then the device can be searched by ONVIF VMS.

Default user name: admin, password:1234.

VIVOTEK

- Status
- Basic
- ONVIF**
- SIP Account
- Audio
- Media File

ONVIF

ONVIF Enable

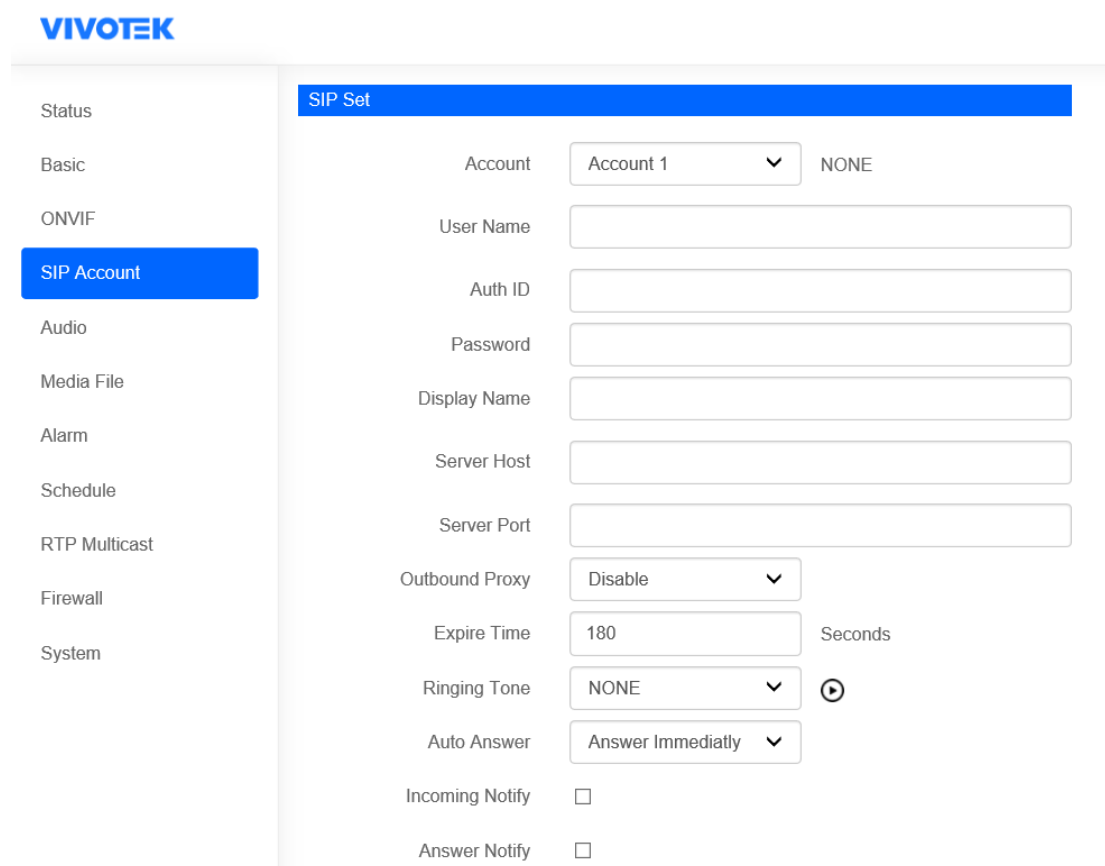
User Name

Password

[Save](#)

2.4 SIP Account

Each speaker has two SIP accounts. Input SIP extension messages into the blanks and save the configuration; then, you can check whether it registers successfully on status.



Expire Time	Set the expiration time of registered account information.
Ringing Tone	5 system ringtones and 10 users upload media files.
Auto Answer	Answer immediately or answer delay when a call incomes.
Incoming Notify	Put an input URL, the URL takes effect when an incoming call rings.
Answer Notify	Put an input URL, when a incoming call answered, URL take effect.

2.5 Audio

Codec Setting: four audio codecs to be compatible with major audio sources.

Volume: adjust the MIC and Speaker volume at 0-100.

Jitter buffer: this function makes the audio more stable.

Amp Auto off: It's enabled by default, so there is no noise when not broadcasting.

The screenshot displays the VIVOTEK web interface for audio configuration. On the left is a navigation menu with the following items: Status, Basic, ONVIF, SIP Account, Audio (highlighted in blue), Media File, Alarm, Schedule, RTP Multicast, Firewall, and System. The main content area is divided into three sections: Codec, Speaker, and MIC.

Codec Section: Under the heading "Codec Setting", there are four checkboxes, all of which are checked: OPUS, G.722, G.711U, and G.711A.



Speaker Section: Under the heading "Speaker", there are four settings: "Volume (0-100)" is set to 30; "Amp Auto OFF" is set to YES; "Jitter Buffer (60 - 2000)" is set to 360 ms; and "HPF" and "NR" are both unchecked.

MIC Section: Under the heading "MIC", there are seven settings: "Gain" is set to None; "Volume (0-100)" is set to 80; "AEC" and "AGC" are both checked; "AGC Gain Level" is set to High; "HPF" is unchecked; "NR" is checked; and "NR Level" is set to 1.

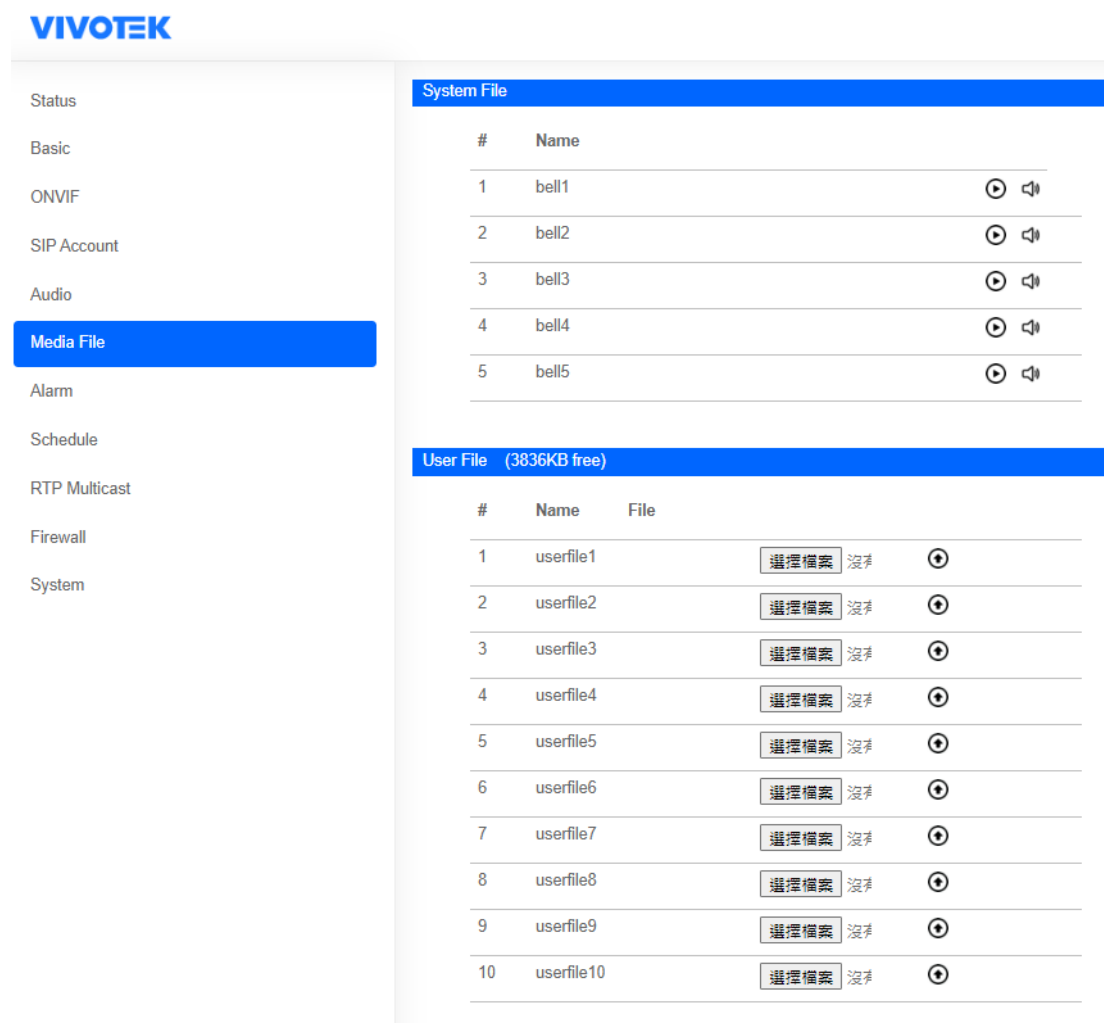
A blue "Save" button is located at the bottom right of the configuration area.

2.6 Media File

There are five system ringtones, and the user can upload 10 customized user files to the speaker.

Click the  to play the audio on the computer; click the  to play the audio from the speaker.

To upload the customized audio, select the file then click .



VIVOTEK

Status

Basic

ONVIF

SIP Account

Audio

Media File

Alarm











Schedule

RTP Multicast











Firewall

System

System File

#	Name	
1	bell1	 
2	bell2	 
3	bell3	 
4	bell4	 
5	bell5	 

User File (3836KB free)

#	Name	File	
1	userfile1	<input type="button" value="選擇檔案"/> 沒	
2	userfile2	<input type="button" value="選擇檔案"/> 沒	
3	userfile3	<input type="button" value="選擇檔案"/> 沒	
4	userfile4	<input type="button" value="選擇檔案"/> 沒	
5	userfile5	<input type="button" value="選擇檔案"/> 沒	
6	userfile6	<input type="button" value="選擇檔案"/> 沒	
7	userfile7	<input type="button" value="選擇檔案"/> 沒	
8	userfile8	<input type="button" value="選擇檔案"/> 沒	
9	userfile9	<input type="button" value="選擇檔案"/> 沒	
10	userfile10	<input type="button" value="選擇檔案"/> 沒	

2.7 Alarm

2.7.1 Alarm In

Enable the alarm, select a file and the cycle mode then save the setting to start using the alarm function. The alarm input port needs to be shorted 2-3 seconds to trigger the alarm in the IP speaker.

2.7.2 HTTP URL

After enabling HTTP URL function, users can play the audio by HTTP URL

The screenshot displays the VIVOTEK web interface configuration page. On the left is a navigation menu with the following items: Status, Basic, ONVIF, SIP Account, Audio, Media File, Alarm (highlighted in blue), Schedule, RTP Multicast, Firewall, and System. The main content area is divided into two sections:

Alarm In

- File Enable**:
- Play File**: A dropdown menu showing 'bell1' with a play button icon to its right.
- Cycle Mode**: A dropdown menu with three options: 'Once only' (highlighted), 'Multiple times', and 'Duration'.
- Sip Enable**:
- Sip Account**: A dropdown menu showing 'Account 1'.
- Sip Number**: An empty text input field.
- Save**: A blue button located at the bottom right of the Alarm In section.

Http URL

- Play File Enable**:
- Example1**: `http://10.42.2.9/api/play?username=xxxx%26password=xxxx%26action=start%26file=bell1`
- Example2**: `http://10.42.2.9/api/play?username=xxxx%26password=xxxx%26action=start%26file=userfile1%26mode=once%26volume=10`
- Example3**: `http://10.42.2.9/api/play?username=xxxx%26password=xxxx%26action=start%26file=userfile1%26mode=multiple%26count=10%26volume=20`

2.8 Schedule

The schedule is widely used in school, factory and office projects, making a regular bell, announcement and alarm.

Users can set up 10 schedules at most. Edit and enable the schedule, name the schedule and set the days and time step by step.

VIVOTEK

Status

Basic

ONVIF

SIP Account

Audio

Media File

Alarm

Schedule

RTP Multicast

Firewall

System

Schedule Add/Edit

Schedule Enable

Schedule Name

Start Date 2022-01-01

End Date 2099-12-31

Allowed Days Mon Tue Wed Thu Fri Sat Sun

Action Time 08:00

Action Type Start ▼

Play File bell1 ▼

Cycle Mode Once only ▼

Save Cancel

2.9 RTP Multicast

Each device can receive up to 10 RTP addresses. Please do not use continuous port numbers when setting the same RTP addresses. Use discontinuous numbers.

- Multicast address range: 224.0.0.0-239.255.255.
- Ports range: 1024-65536
- Require special tool to make RTP multicast.

VIVOTEK

Status

Basic

ONVIF

SIP Account

Audio

Media File

Alarm

Schedule

RTP Multicast

Firewall

System

RTP Multicast

Priority	IP Address (e.g. 239.255.0.1:5004)
1	<input type="text"/>
2	<input type="text"/>
3	<input type="text"/>
4	<input type="text"/>
5	<input type="text"/>
6	<input type="text"/>
7	<input type="text"/>
8	<input type="text"/>
9	<input type="text"/>
10	<input type="text"/>

Save

2.10 Firewall

A firewall is used to protect your network's safety. You can edit the firewall automatic defense rules as you need as follows.

The screenshot displays the VIVOTEK web interface. On the left is a navigation menu with the following items: Status, Basic, ONVIF, SIP Account, Audio, Media File, Alarm, Schedule, RTP Multicast, Firewall (highlighted in blue), and System. The main content area is divided into two sections:

Firewall Rules

#	Name	Type	IP/MAC	Action
1				
2				
3				
4				
5				

Automatic Defense Rules

#	Name	Protocol	Port Range	Rate
1			-	
2			-	
3			-	
4			-	
5			-	

2.11 System

2.11.1 Upgrade

Reboot allows you to reboot the IP speaker, which takes about one minute to complete.

Click reset and confirm it to reset the IP speaker to factory default settings. System will turn to the original setting, and you need to re-login the web page with the default account and password.

Follow the steps below to upgrade the firmware:

- (1) Select the latest version firmware bin file.
- (2) Click upgrad, it would require about 20s.
- (3) Re-login the web interface, latest version has been upgraded.

2.11.2 Security

Set a new username and password as you need, save the configuration and restart login.

The screenshot displays the VIVOTEK web interface. On the left is a navigation menu with the VIVOTEK logo at the top. The menu items are: Status, Basic, ONVIF, SIP Account, Audio, Media File, Alarm, Schedule, RTP Multicast, Firewall, and System (which is highlighted in blue). The main content area is divided into two sections. The top section, titled 'Upgrade', contains three buttons: 'Reboot' (with the text 'Reboot Device Now' to its right), 'Reset' (with the text 'Reset to Factory Setting' to its right), and 'Upgrade' (with a file input field and a '瀏覽...' button to its right). The bottom section, titled 'Security', contains five input fields: 'User Name', 'Password', 'New User Name', 'New Password', and 'Confirm Password'. A blue 'Save' button is located at the bottom right of the Security section.