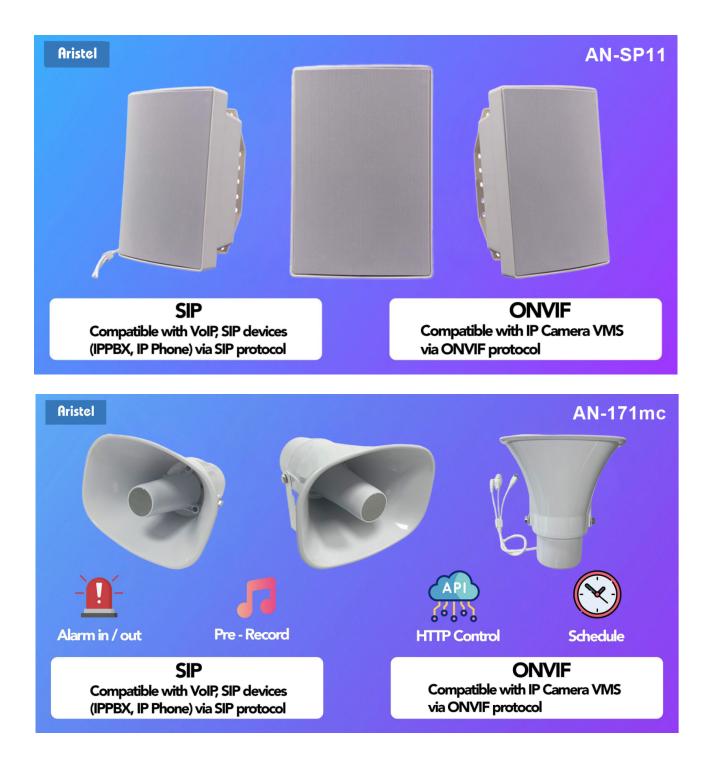
Universal User Manual



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1. Overview

The IP speakers are compatible with SIP & ONVIF protocols that can be used in VoIP and security fields. Up to 10 RTP multicast addresses enable the arrangement of different paging solutions. Alarms in an HTTP URL can be combined with the alarm system, such as 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 set security alarms in schools, factories, hospitals, etc.

2. Web Configuration

The web configuration of the IP speakers includes a complete function setting . When the device and your computer are connected to the same network, please open a browser and type in http://192.168.5.200, then log in with the default username and password as below.

Username: admin Password: tm1234

Login			IP Speaker
	Username		
	Password		
	Language	English	~
	Sig	gn in Cancel	
Fo	rgot Password?		

2.1 Status

ID CDEAKED

You can check the IP speaker's firmware version, free space, and two SIP account statuses. You can also locate the current network information here, like MAC, IP address, gateway, etc.

II JILAKLK		
Status	Status	
Basic	Device Time	2024-07-29 03:42:29
Dasic	Device ID	50442141A08B6E1C
ONVIF	Firmware Ver	CS20-V3.3.36N
SIP Account	Free Space	3836KB
SIF Account	SIP1 Status	NONE
Audio	SIP2 Status	NONE
Media File		
Alarm	Network	
	MAC Address	F8:7A:39:D0:04:DE
Schedule	IP Address	192.168.2.108
RTP Multicast	Subnet Mask	255.255.255.0
	Gateway	192.168.2.1
Firewall	Primary DNS	192.168.5.1
Auto Provision	Secondary DNS	192.168.2.1
System		Refresh

2.2 Basic

2.2.1 Date/ Time

There are two update modes for time : NTP/ local time. Choose one and set the time zones, NTP server, and interval. You can also choose the default setting and save the configuration.

Aristel

Date/Time					
	Device Time	2024-07-29 03:47:50			
	Update Mode	NTP	~		
	TimeZone	GMT+08:00	~		
	NTP Server	pool.ntp.org			
	NTP Interval	10		Minutes	
					Save
Date/Time					
	Device Time	2024-07-29 03:47:50			
	Update Mode	LocalTime	~		
	LocalTime	2024-07-29 12:01:14			
					Save

2.2.2 Network

When you choose DHCP and save it, the IP address will be created automatically by a DHCP server; then, you need to log in again with the new IP address on the browser: 192.168.5.XXX.

Status IP address: it is a default IP and will not be changed as follows.

Network	
O DHCP	
O Static IP Address	
IP Address	192.168.2.108
Subnet Mask	255.255.255.0
Gateway	192.168.2.1
Primary DNS	192.168.5.1
Secondary DNS	192.168.2.1
	Save

2.3 ONVIF

Select Enable ONVIF; then the device will be searched by ONVIF VMS.

Default user name: admin password: tm1234

IP SPEAKER		
Status	ONVIF	
Basic	ONVIF Enable	
ONVIF	User Name	admin
SIP Account	Password	tm1234
Audio		Save
Media File		
Alarm		
Schedule		
RTP Multicast		
Firewall		
System		

2.4 SIP Account

Each speaker has two SIP accounts. Fill in the blanks with SIP extension messages and save the configuration. Then, you can check whether it registers successfully or not on status.

Expire Time	Set the expire time of registered account information	
Ringing Tone	Five system ringtones and ten users upload media files	
Auto Answer	Answer immediately and answer delay when a calling incomes	
Incoming Notify	Put an input URL, when a incoming call ringing, URL take effect	
Answer Notify	Put an input URL, when a incoming call answered, URL take effect	

Status	SIP Set		
Basic	Account	Account 1 ~	NONE
ONVIF	User Name		
SIP Account	Auth ID		
Audio	Password		
Media File	Display Name		
Alarm	Server Host		
Schedule			
RTP Multicast	Server Port		
Firewall	Outbound Proxy	Disable ~	
Auto Provision	Expire Time	180	Seconds
System	Ringing Tone	bell1 ~	\odot
	Auto Answer	Answer Immediatly ~	
	Incoming Notify	\checkmark	
	Http URL		
	Answer Notify	\checkmark	
	Http URL		
			Save

2.5 Audio

Out volume: adjust mic and output volume at 0-100.

Jitter buffer: to make the audio more stable.

Amp auto-off: It's set defaulted to ON, so there is no noise when not broadcasting.

Code setting: Four audio codes to be compatible with major audio sources.

Status	Audio		
Basic	Out Volume (0-100)	20	
ONVIF	Jitter Buffer (60 - 2000)	360	ms
SIP Account	Amp Auto OFF	YES 🗸	
Audio	Codec Setting	OPUS	
Media File		✓ G.722	
Alarm		✓ G.711U	
Schedule		✓ G.711A	
RTP Multicast			
Firewall			
System			

2.6 Media File

There are five system ringtones, and you can upload ten media files, such as music, announcements, bells, etc., as customers request.

2.7 Alarm

2.7.1 Alarm In

Enable the alarm, select a file and cycle mode, and save the setting. Connect the alarm device to the alarm input port in the IP speaker.

2.7.2 Http URL

User can control the alarm by HTTP URL:

- (1) Enable the selection;
- (2) Open any browser on your PC.
- (3) Put the URL as the following examples, enter it.

Status	Alarm In	
Basic	Alarm Enable	
ONVIF	Play File	bell1 ~ 🖸
SIP Account	Cycle Mode	Once only
Audio		Once only Multiple times Duration
Media File		Durabon
Alarm	Http URL	
Schedule	Play URL Enable	
RTP Multicast	Example1:	http://192.168.5.229/api/play?action=start&file=bell1
Firewall	Example2:	http://192.168.5.229/api/play? action=start&file=userfile1&mode=once&volume=10
System	Example3:	
	Example4:	http://192.168.5.229/api/play? action=start&file=userfile1&mode=duration&count=10&volume=30
	Example5:	http://192.168.5.229/api/play?action=stop

2.8 Schedule

This function is widely used in schools, factories, and office projects. It makes a regular bell, announcement, and alarm. Enable the schedule; you can name it. Then, set it step by step.

Status	Schedule Add/Edit	
Basic	Schedule Enable	
ONVIF	Schedule Name	
SIP Account	Start Date	2022/01/01 🗖
Audio	End Date	2099/12/31 🗖
Media File	Allowed Days	🗸 Mon 🗸 Tue 🗸 Wed 🗸 Thu 🔽 Fri 🗸 Sat 🗸 Sun
Alarm	Action Time	14:29 🔘
Schedule	Action Type	Start 🗸
RTP Multicast	Play File	bell1 ~ 🖸
Firewall	Cycle Mode	Once only 🗸
System		Save Cance

2.9 RTP Multicast

There are 10 RTP addresses that can be received for each device; please note that port numbers do not use continuous numbers when setting the same RTP addresses. Use discontinuous numbers. e.g.:

- Multicast address range: 224.0.0.0-239.255.255.
- Ports range: 1024-65536
- Use IP Tool, Audio manager and PA System to make RTP multicast.

atus	RTP Multicast	
sic	Priority	IP Address (e.g. 239.255.0.1:5004)
IVIF	1	e.g. 239.255.0.1:8000
Account	2	e.g. 239.255.0.1:8002
lio	3	e.g. 239.255.0.1:8004
dia File	4	e.g. 239.255.0.1:8006
rm	5	e.g. 239.255.0.1:8008
edule	6	e.g. 239.255.0.1:8010
P Multicast	7	e.g. 239.255.0.1:8012
em	8	e.g. 239.255.0.1:8014
	9	e.g. 239.255.0.1:8016
	10	e.g. 239.255.0.1:8018

2.10 Firewall

This function protects your network's safety. You can edit the firewall's automatic defence rules as needed.

Status	Firewall	Ruics					
Basic	#	#	Name	Туре	IP/MAC	Action	
ONVIF		1					Ô
SIP Account	2	2					Ô
Audio	\$	3					Ô
/ledia File	2	4					Ô
Alarm	ŧ	5					Ô
Http URL							
Schedule	Automat	tic Defe	ense Rules				
RTP Multicast	#	#	Name	Protocol	Port Rage	Rate	
irewall		1			-		Ô
ystem		2			-		Ô
	3	3			-		Ô
	4	4			-		Ô

2.11 System

2.11.1 Upgrade

When you reboot and reset the system, it will return to its original settings, and you will need to re-login to the web page. How do you upgrade the IP Speaker firmware version in the web interface?

- (1) Select the latest version firmware CS20-xxx-bin.
- (2) Click upgrade to refresh; Taking around 20s.
- (3) Re-login the web interface, latest version has upgraded.

2.11.2 Security

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

Status	Upgrade
Basic	Reboot Device Now
ONVIF	Reset Reset to Factory Setting
SIP Account	Upgrade
Audio	
Media File	Security
Alarm	User Name admin
Schedule	Password
RTP Multicast	New User Name
Firewall	New Password
System	Confirm Password
	Save

3. Audio Manager Configuration

Apart from Web configuration and IPTool, Audio Manager is another option that configure quickly basic information such as SIP account setting, volume setting, RTP Multicast setting. Please follow below steps.

- (1) Download and install Audio Manager at: https://www.aristel.com.au/downloads
- (2) Enter Audio Manager, select a network from the Options tab (eg. Realtek PCle GBE Family Controller 192.168.5.1, Scan Devices, the device will appear and then start setting.

Scan Devices 🧉	RTP Multicast 🗙 Op	tions								
No.	Name	MAC	IP Address	Netmask	Gateway	SIP Account	RTP Multicast	Firmware Version	Volume	System