

How to Deploy IP Speaker on HikCentral

Contents

System Requirements	2
Connecting IP Speaker to HikCentral	2
Live Broadcast via Web Client and Control Client	6
Event Trigger Speaker Playing Audio	8
Scheduled Broadcast	9
FAQ	10





This deployment guide applies to the following device and platform versions:

- IP Speaker DS-PA0103-A v6.1.0b9bin
- HikCentral v2.1.0

Note: The document is applicable to the versions stated above. If newer firmware or software version is released in future, the requirements or operation procedures in newer version may be different.

If you have any questions, please contact Hikvision local technical support team.

System Requirements

- 1. For the IP Speaker:
 - 1) DS-PA0103-A on firmware v6.1.0b9bin or newer version;
 - 2) MicroSD card (up to 32GB) to install in IP Speaker;
 - 3) Audio Files (mp3 or wav format, less than 10MB in size).
- 2. For the HikCentral Client PC:
 - 1) HikCentral on v2.1.0 or newer version with IP Speaker license activated;
 - 2) Windows firewall rule to allow incoming connection on 8877 port;
 - 3) Windows Administrator to run the control client;
 - 4) Windows Administrator to run the web client;
 - 5) Use Google Chrome to upload audio files on HikCentral.

Note: If MicroSD card is not installed in the IP Speaker, the live broadcasting feature is still supported but some other features are not supported including HikCentral event triggering speaker playing audio files, and scheduled broadcast.

Connecting IP Speaker to HikCentral

1. Insert the MicroSD card (up to 32GB) to the speaker and connect the speaker (IEEE 802.3af) to a PoE switch.

Run the NAManager software on a PC located in the same subnet as the speaker to discover the speaker. You can upgrade the speaker if needed, and double click on the discovered speaker to configure the device parameters like IP addresses. Updating firmware or changing the device parameters requires input of the device password, which by default is 1234.





NAManager V3 3 1		- T X
Davice Address Rook Tools Language Help	Property	
		Parameter settings
Reflesh Add Delete Update About Exit Flag MAC IP Address Device Online 0.9.246.140.240.116 192.168.1.222	Information BaseParam IntercomParam ControlStatus Input2 Input3 Input4 ControlUart SIP	Device information DeviceNumber DeviceName UserName Password PAddress DHCP PAddress DHCP PAddress DHCP C Enable PAddress DHCP C Enable C Enable Disable DHCP DISA DHCP DISA
		Primary DNS 0.0.0 Secondary DNS 0.0.0
		Setting of server Port Primary server 192.168.1.110 Secondary server
	Defaul Save to defa	IP address ault Export param Import param Save Cancel
Count 1 License Unknown		

- 2. After the speaker has been configured with correct network parameters, you can login to the web page of the speaker. Configure the following parameters on the speaker web page:
 - 1) Go to the speaker web page Server, enter the HikCentral server IP (here is 192.168.1.110) as server IP, and enter 8877 as the server port.

For the user name and password for server, it is recommended to enter the username and password of the speaker. And this should match the username and password used in adding the device on HikCentral. Alternatively, you can enter any username or password here as long as it matches those used in HikCentral while adding the speaker.

Note: 8877 is the default HikCentral port used for communication with speaker and can be changed in HikCentral service manager if needed. Device proactively registers to HikCentral via this port, so in the Windows firewall rule setting, the incoming connections to this port shall be allowed. For the configured parameters to take effect on Speaker, you would need to logout the speaker.





\leftrightarrow \rightarrow C \blacksquare Not secure	192.168.1.222			
HIKVISIO N	DS-PA0103			
Network	Audio Server			
Server	Server			
Sip Setting	Server IP	192.168.1.110		
Account	Server Port	8877		
Intercom	Server User			
Monitor	User Name for Server	admin		
Audio	Password for Server	••••		
IP Filtering		L	Save	
Maintain				
Security				
Overview				

2) Go to the speaker web page – Sip Setting – Monitor, enter the 0.0.0.0:9999 in the multicast address field as shown in the picture below; And in the play volume, 80 or above is recommended. This defines the volume used in live broadcasting.

Network	Multic	ast Monitor		
Server	Monito	or Address		
Sip Setting	*	Priority	Address ?	
Account		1	0.0.0.0:9999	
Intercom	_	2		
Monitor		2		
Audio		3		
IP Filtering		4		
Maintain		5		
Security		0		
Overview		ь		
		7		
		8		
		9		
		The lowest		
	Audio			
		Play volume(1-10	0) 90	





3) Go to speaker web page – Overview, copy the serial number of the device to be used in next step's adding the device into HikCentral.

$\leftrightarrow \rightarrow \mathbf{C}$ (A Not secure	192.168.1.222	
HIKVISION	DS-PA0103	\searrow
Network	System Overview	
Server	Fireware Version	V6.1.0b9
Sip Setting	Serial Number	42791129595
Account		
Intercom	IP Address Primary DNS	192.168.1.222
Monitor	Netmask	255.0.0.0
Audio	Secondary DNS Gateway	0.0.0.0 10.1.1.1
IP Filtering		
Maintain	Server Ip	192.168.1.110
Security	Server Status	connected
Overview	SD Card Status	total:30538 MB, used:0 MB
	Status	idle

 After above device settings have been completed, go to HikCentral web client – Device and Server – IP Speaker interface, click on add and enter the parameters of the speaker. Note: The device port 9999 should match the 9999 used in multicast address (Step 2.2) and device serial no. should be correct (Step 2.3). The user name and password should match those configured in Step 2.1.

88	🞯 HikCentral Professiona	al Web Client				
	Resource Management	⊖Add IP Speaker				
	Device and Server ^					
	Encoding Device	Basic Information				
	Access Control Device	Adding M	ode	IP Address		
	Elevator Control Devi			Batch Import		
	Security Control Devi	*Add	ress	192.168.1.222		
	Dock Station	*Device I	Port	9999		
	UVSS	*Device Serial	l No	42791129595		
	Network Transmissio	*Na	ame	IP Speaker		
	Guidance Screen	t lizer N		admin		
	IP Speaker	USET 142	ante	aunin		
	Recording Server	* Passw	/ord			lip.
	Streaming Server				R	isky
	DeepinMind Server	Resource Information				
	Security Audit Server	Add Resource to A	Area			
	Smart Wall	4.	Area	Create Area by Device Name		
	Area			C Existing Area		
Ø	Firmware Upgrade			Add Add and Contin	Cancel	





4. If all the parameters are correct, you will see the device shows online on HikCentral in several minutes, as well as shows connected in speaker web page – Overview – Server Status (You may need to logout the speaker web page and log back in to view the latest status).

IP Filtering		
Maintain	Server lp 192.168.1.110	
Security	Server Status connected	-
Overview	SD Card Status total:30538 MB, used:0 MB	3

5. Broadcast group:

You can create a broadcast group on HikCentral to include multiple speakers in the same group so that the speech or audio files can be broadcasted over multiple speakers at the same time. For each speaker, volume shall be configured to 80% of the maximum value at least. The volume defines the volume used for event trigger speaker playing audio files and schedule broadcast.

₽	Speaker Unit		+ Add 🗇 Delete	<)) Volume			
		Search	Name	Area	Terminal Status	Volume	Audio File
×	Broadcast Group	Speaker 📄	Broadcast 01	IP Speaker	🕑 ldle	8	0 🗎
Ō							
<u>\$</u> "							
Fð	Scheduled Broadcast						

6. Create Media Library:

In order to play audio files over the speaker, audio files (mp3 or wav format, less than 10MB in size) shall be uploaded to the media library. Chrome is recommended to use for uploading audio files as you may encounter issues if using IE.

HikCentral Profession	S HikCentral Professional Web Client						
E Speaker Unit	te 🖌 🛍	+ Add 🕘 Delete					
Basic Settings	Search	Name 🕈	Format	Size	Operation		
Broadcast Group	MediaDirectory	AbnormalTemperature	mp3	50KB	<u>.</u>		
Media Library		WarningCCTVInProgress2	mp3	92KB	بلا.		

Live Broadcast via Web Client and Control Client

Live broadcast of speech and audio file is supported on HikCentral web client and control client. For current version, it requires to run the web client / control client as Windows administrator in order to broadcast audio files.

1. Live broadcast recording:





If you want to record the live broadcast, go to HikCentral web client – Speaker Unit –Basic Setting, select corresponding storage location and enable the live broadcasting recording. After live broadcasting, you will be able to search for the broadcast recording on web client or control client.

88	<mark> HikCentral Professional</mark> Web Client	
≡	Basic Settings	
8	K Basic Settings	
\boxtimes	File Storage Location	
Ō	*Storage Location	Local Storage V
<u>Q</u> "	Live Broadcast Recording	
FB	*Live Broadcast Recording	Y
		Save

2. Live broadcast on web client:

Run the web browser as administrator, go to HikCentral web client – Live Broadcast, you can select speakers via broadcast group or area, for the broadcast of speech or audio file.

88	HikCentral Profession	nal Web Client	
≡	Speaker Unit	Live Broadcast	
53		• The content you broadcast will be recorded and uploaded to the local storage or pStor server.	
Ø		*Speaker Unit 💿 Group	
ē		Area	
<u>\$</u> "	Live Broadcast and Rec ^	Display Terminals Not Grouped	
	Live Broadcast		
		Search Q	
F		₽ 📢 Broadcast 01	
		*Broadcast Mode Speak Audio File	
		Start Broadcast	

- Live broadcast on control client: Run the control client as administrator, and it supports live broadcast via the following three menus.
 - 1) Live broadcast via Control Client Tool:





Surveillance	Investigation	Intelligent Analysis	Maintenance		Tool
					Smart Wall
Broadcast				~	Arming Control
By Speaker Unit By Device					
 The content you broadcast will be 	e recorded and uploaded to the server			×	VSPlayer
					D Two-Way Audio
Speaker Unit	• Group				도♥ Broadcasting
	⊖ Area				Alarm Output Control
	Display Speaker Unit Not G	rouped		Ľ	
	Search		0		
	> Speaker		~		င်္ဂ်ို System

2) Live broadcast via live view window (Speaker can be related with cameras if needed):

		1
	Д	
		1

3) Live broadcast via map (Speaker need to be configured on map):

🚺 Мар		Status: No Alarm T	riggered
> 🖪 9632		Area: IP Remark:	Speaker
✓ 💾 IP Speaker	ARROWS	Broadcast	GROUND FI
♥ Broadcast 01 ≪	Arrowside G Out of	ENT CONTRACTOR	MRI A&E ENTRANCE

Event Trigger Speaker Playing Audio

- Event such as camera line crossing event can be configured to link with IP Speaker to automatically play audio files when the event is triggered;
- Go to HikCentral web client Event and Alarm interface, create an event, and configure in the linkage action to link a specific speaker unit and select an audio file;
- This feature requires MicroSD card installed in the speaker.





Event and Alarm	CAdd Event and Alarm						
Event and Alarm Confi ^	Basic Information Actions Receiving Schedule Alarm Settings						
Normal Event and Al	Actions	_					
Combined Alarm							
Basic Settings 🗸 🗸		Actions		Add Linkage Action			
Q Search ~		[7] Link Speaker Unit				₿ ^	
		Speaker Unit *	_				
		O No more than 64 speake	r units can be linked.				
		+ Add 🗈 Delete i	All				
		Speaker Unit 💲	Area ‡	Operation			
		Broadcast 01	IP Speaker	Û			
		Play Audio File *					
		WarningCCTVInProgress2		×			

Scheduled Broadcast

- You can setup broadcast schedule task for the speakers. Go to HikCentral web client Speaker Unit – Scheduled Broadcast, select the speakers, creating the schedule play rule and set the audio file play sequence;
- 2. This feature requires MicroSD card installed in the speaker.

88	6 HikCentral Profession	al Web Client				
	Speaker Unit	Edit Scheduled Broadcast				
5			+ Add 🔟 Delete			
Ø			Name	Op	eration	
Ō			Broadcast 01	Œ	1	
₽ ¶ 1						
Fð	Scheduled Broadcast					
		*Period Type	Every Day			~
		*Start Date and End Date	2021/11/04		2021/11/05	A
					2021711705	
		*Broadcast Time	09:48:30			G
		*Broadcast Priority	1			~
		*Audio File	*Audio File + Add 🔟 Delete			
			File Name	Duration	Operat	tion
			prompt_no_wear	00:00:03	\uparrow	↓ @
			WarningCCTVInPr	00:00:06	\uparrow	\downarrow 1
		*Play Mode	• Once			
			 Specified Duration 			
			Save Cancel			
		· · · · · · · · · · · · · · · · · · ·				





<u>FAQ</u>

- 1. Live broadcast of audio files on web client and control client requires launching the client as Windows administrator.
- If you cannot hear any audio via live broadcast, please make sure the multicast address
 0.0.0.0:9999 is configured on IP Speaker web page Sip Setting Monitor.
- 3. For live broadcast, the volume is controlled by the play volume option on IP Speaker web page Sip Setting – Monitor, and it shall be configured as over 80% of the maximum volume. For event triggering speaker playing audio file, as well as scheduled broadcast, the volume is controlled by the volume configured on HikCentral web client – Speaker Unit – Broadcast Group – Speaker Volume, and it shall be configured as over 80% of the maximum volume.
- 4. Uploading audio files to HikCentral is recommended to do so on Chrome, as uploading via IE may result in the page getting stuck in the following loading status.



- 5. MicroSD card on the speaker supports up to 32GB, and it shall be initialized as FAT32 format. Otherwise, it may not get identified by the speaker.
- 6. The audio file is recommended to be the following format: mp3 or wav, 8000HZ sample rate, mono sound, less than 10MB in file size.
- 7. Event trigger speaker playing audio and scheduled broadcast requires MicroSD card to be installed in HikCentral.
- 8. If WAN access has been enabled on HikCentral, you may get the following downloading failed error via live audio broadcast. Please contact Hikvision support if you encounter the issue.





88	🔅 HikCentral Profession	al Web Client				\textcircled{O} Wizard \equiv Maintenance and N
≡	Speaker Unit	Live Broadcast		Downloading failed.		
æ		The content you broadcast will be recorded a	nd uploaded to the	lacal starage or pStor conjor		
Ø						
Ō						
₽	Live Broadcast and Rec ^					
	Live Broadcast					
		*Broadcast Mode	◯ Speak			
FB			 Audio File 			
			$\stackrel{\downarrow}{\rightharpoonup}$ Download	⊙ For a fluent broadcast, you can download the audio file	to the local PC first.	
			Search	Q		
			🗸 🚞 MediaDire	ectory		
			🗸 🚞 test			
			🗅 Abno	ormalTemp0		
			pron	npt_no_wear_mask		

9. If you may find the serial number field on the speaker web page is incorrectly displayed with the MicroSD card information, please try restart your speaker. If still unable to get the serial number, try unplug the MicroSD card then restart or restore the speaker. This is a known issue will be fixed in next firmware release of the speaker.

HIKVISION	DS-PA0103	
Network	System Overview	
Server	Fireware Version	V6.1.0b9
Sip Setting	Serial Number	total:30538 MB, used:0 MB
Account		

