How to test IP speaker with Postman.

This document shows how to play an audio file on IP speaker with Postman. Please download the Postman (<u>https://www.postman.com/downloads/</u>) and install it.

Import the Postman collection.

The collection only includes ISAPI commands for how to play an audio file on IP speaker. For other functions, please contact our integration team.

Run Postman and import the collection file

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We should be able to see a folder icon named "Hikvision-IP Speaker" and 5 APIs under the folder icon.

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Call the API in the collection.

Please follow the below two steps to play an audio file on IP speaker. Below ISAPI commands are tested on below device.

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Overview	System Configuration	Basic Information		
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	SIP	Device Serial N	 DS-QA6H07G120230615C2WRAC7817903 	
	Broadcast Settings	Firmware Versi	n V1.2.1 build 230901	
	Alarm Configuration	Code Versi	n V1.2.1 build 230819	
		Hardware Versi	vn 0x0	
		Web Versi	n V5.0.1_R0303 build 230830	
			Save	

Step 1. Upload audio file to IP speaker.

1. Click the API named "1. Upload an audio clip" and change the IP, password in the API to your device

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DEL Delete an audio clip	Digest Auth \sim	we recommend using variables. Lea	rn more about variables		
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Postman Echo 37 requests	By default, Postman will extract values from the received response, add it to the request, and retry it. Do you want to disable this?	Password	Show Password		
	Yes, disable retrying the request	▼ ADVANCED These are advanced configuration option	ns. They are optional. Postman will aut	o generate values for some fields i	if left blank.
	Preview Request	Realm 💿	testrealm@example.com		
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Go to the tab named "Body" and click the button named "选择文件" to select the audio file.

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PUT 2. Play an audio clip PUT 3. Stop play an audio clip	CustomAudioInfo audioData	< 送择文件 未选择任何文件		
Postman Echo 37 requests	Response	Value		
		Hit the Send button to get a response.		
		Do more with requests		
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2. Double click below area to set the metadata for the audio file.

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5 requests	21	Authorization	leaders Body Pre-r	equest Scrij	ot Tests			Cookies Code
GET Get audio list in the l	P Speaker	🖲 form-data 🔍 x	www-form-urlencoded • r	aw 🔍 bi	nary			
DEL Delete an audio clip		Key			Value	Descript	on	Bulk Edit
POST 1. Upload an audio o	lip	= CustomAudioInf	0	Text 🔻	{			×
PUT 2. Play an audio clip		audioData			CustomAudioInfo": {			
PUT 3. Stop play an audio	clip	New key			"audioFileFormat": "mp3",			
Postman Echo		Response			}			
					14			

You can change the value of customAudioName to yours and do not forget to change the value of audioFileSize to yours if you use other audio file (the demo will use Yangin.mp3 for testing). You can get the size of your audio file like below

â	Yangin.mp3	Properties
6	General Secu	rity Details Previous Versions
	<u> </u>	Yangin.mp3
	Type of file:	VLC media file (.mp3)
	Opens with:	🛓 VLC media player Change
	Location:	E:\Hiklink
	Size:	325 KB (333,145 bytes)
	Size on disk:	328 KB (335,872 bytes)
	Created:	2023年9月12日, 10:04:31
	Modified:	2023年9月12日, 10:04:31
	Accessed:	2023年9月12日, 10:04:31
	Attributes:	Read-only Hidden Advanced
	Security:	This file came from another computer and might be blocked to help protect this computer.
		OK Cancel Apply

3. Call the API in Postman by clicking the "Send" button

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Q Filter	http://10.7.66.101:809 • 1. Upload an audio cl × + ••••	•		No Environm	ient	\sim	•
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Hikvision-IP Speaker 5 requests	Authorization Headers Body Pre-request Scri	ipt Tests			1	Cook	ies Code
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DEL Delete an audio clip	Кеу	Key Value Desc					Bulk Edit
POST 1. Upload an audio clip	CustomAudioInfo	{					
PUT 2. Play an audio clip	audioData	法探文件 Yangin.mp3					
PUT 3. Stop play an audio clip	New key	Value					
Postman Echo 37 requests	Response						
	ŀ	Hit the Send button to get a response.					
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If we can see status 200 OK and below response from the IP speaker, then the audio file is

uploaded successfully.

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All Me Team	POST V http://10.7.66.104/ISAPI/AccessControl/EventCardLinkageCfg/CustomAudio?format=json			Params	Send	✓ Save ✓
Hikvision-IP Speaker 5 requests	Authorization Headers (1) Body Pre-requi	est Script Tests				Cookies Code
GET Get audio list in the IP Speaker	• form-data • x-www-form-urlencoded • raw •	binary				
DEL Delete an audio clip	Key	Value	Descriptio	on		Bulk Edit
POST 1. Upload an audio clip	Custom Audiolatio	1				
PUT 2. Play an audio clip		THIS WALL IN THE D				
PUT 3. Stop play an audio clip		选择文件 Yangin.mp3				
Postman Echo 37 requests	Body Cookies Headers (7) Test Results			Status: 2	DD OK Time:	110 ms Size: 288 B
	Pretty Raw Preview JSON V 🚍				ΓC	Save Response
	1 * *statusCode": 1, *statusString": "Oc*, 4 *subStatusCode": "ok*, 5 veustonAudioID": 4					

Please copy the value of customAudioID in the response and we will use it later in the next step.

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년 Overview	System Management	Material Library	Scheduled Broadcast Strateg	y Settings			
_	System Configuration	Upload audio file in n	np3、MP3、wav、WAV format, which	is less than 100N	Л.		
Configure	User Management	🕞 Batch Import 🛛	Delete			Free S	oace: 1017.15 MB Total: 1024 MB
ত	Network 🗸	No.	Name	Format	Size	Duration	Operation
Maintenance and Security	Audio	1	Birthday-audio2.mp3	mp3	1.10M	00:00:36	2 1
	SIP	2	【中国风】活力2.mp3	mp3	0.48M	00:00:12	2
	Broadcast Settings	3	【中国风】大道.mp3	mp3	4.95M	00:02:09	2 1
	Alarm Configuration	4	Yangin11.mp3	mp3	0.32M	00:00:20	∠ 1
		Total: 4 20 /Page	~			< 1 ;	1 / 1Page Go

Until now, we should be able to see the audio file on webpage of the IP speaker like below.

Step 2. Play an audio file

1. Click the API named "2. Play an audio clip" and change the IP, password in the API to yours.

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All Me Team	PUT V http://10.7.66.104/ISAPI/Even	tt/triggers/notifications/AudioAlarm/AudioOu	t/1/PlayCustomAudioFile?format=js	Params Send 💙	Save Y
5 requests	Authorization Headers Body Pre-re-	equest Script Tests			Cookies Code
GET Get audio list in the IP Speaker DEL Delete an audio clip POST 1. Upload an audio clip PUT 2. Play an audio clip PUT 3. Stop play an audio clip	TYPE Digest Auth The authorization header will be automaically generated when you send the request. Learn more about authorization By default, Postman will extract values from	 Heads up! These parameters hold so we recommend using variables. Lea Username Password 	ensitive data. To keep this data secure of more about variables admin abodt 234	while working in a collaborative er	nvironment, X
37 requests	the received response, add it to the request, and retry it. Do you want to disable this? Ves, disable retrying the request Preview Request	ADVANCED These are advanced configuration option Realm Nonce Algorithm	In Show Password	o generate values for some fields	if left blank.
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2. Change the value of customAudioID to the number returned in the previous step.

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History Collections	▶ 2. Play an audio clip				Examples (1) 💌	
All Me Team	PUT V http://10.7.66.104/ISAPI/Eve- format=json&customAudiol	nt/triggers/notifications/AudioAlarm/AudioOut D=4&audioVolume=2&loopPlaybackTimes=1	/1/PlayCustomAudioFile?	Params Senc	Save 🗡	
5 requests	Authorization Headers Body	request Script Tests			Cookies Code	
GET Get audio list in the IP Speaker	туре	Heads up! These parameters hold se	nsitive data. To keep this data secure :	while working in a collabo	prative environment, ×	
DEL Delete an audio clip	Digest Auth 🗸	we recommend using variables. Learn more about variables				
POST 1. Upload an audio clip	The authorization header will be					
PUT 2. Play an audio clip	automatically generated when you send the request. Learn more about authorization	Username	admin			
901 3. Stop play an audio clip		Password	abcd1234			
Postman Echo 37 requests	By default, Postman will extract values from the received response, add it to the request, and retry it. Do you want to disable this?		Show Password			
	Yes, disable retrying the request	▼ ADVANCED				
		These are advanced configuration option	s. They are optional. Postman will auto	o generate values for som	ie fields if left blank.	
	Preview Request	Realm 🕕	testrealm@example.com			
		Nonce 🕕	Nonce			
		Algorithm	MD5		\sim	
		qop 🕕	e.g. auth-int			

3. Call the API in Postman by clicking the "Send" button

If the IP speak return status 200 OK, we should be able to hear the IP speak is playing the audio file.

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P001 1. Upload an audio clip PUT 2. Play an audio clip PUT 3. Stop play an audio clip PUT 3. Stop play an audio clip Pottman Echo 37 requests	Body Cookies Headers (8) Test Res Pretty Raw Preview JSON V *statusCode": 1, *subStatusCode": *ok*	ults		Status: 200 OK Ta	ne: 27 ms Size: 303 B Q Save Response
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If we want to change the volume of the audio and play the audio for many times, we can change the value of audioVolume and loopPlaybackTimes in the url.

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All Me Team	PUT V http://10.7.66.104/ISAPI/Eventtriggers/notifications/AudioAlarm/AudioDut/1/PlayCustomAudioFile? formatrijson&customAudioID=4&audioVolume=2&loopPlaybackTimes=1	Params Send Y Save Y
Hikvision-IP Speaker	Nonce Court	
5 requests	Client Nonce e.g. 0a4f113b	
GET Get audio list in the IP Speaker	Opaque 💿 Opaque	
POST 1. Upload an audio clip		
PUT 2. Play an audio clip	Body Cookies Headers (8) Test Results	Status: 200 OK Time: 27 ms Size: 303 B
PUT 3. Stop play an audio clip	Pretty Raw Preview JSDN V	C Q. Save Response
Postman Echo 37 requests	1 - K statusCode::, statusEring::"OK", subStatusCode::"ok")	

audioVolume is used to control volume. It is from 1 to 100. loopPlaybackTimes is used to control play times for the audio file.