

## How to set audio live view and playback

### Preparation

1. Make sure that your camera supports audio function.
2. External active microphone.
3. Client software such as iVMS-4200 & iVMS-4500

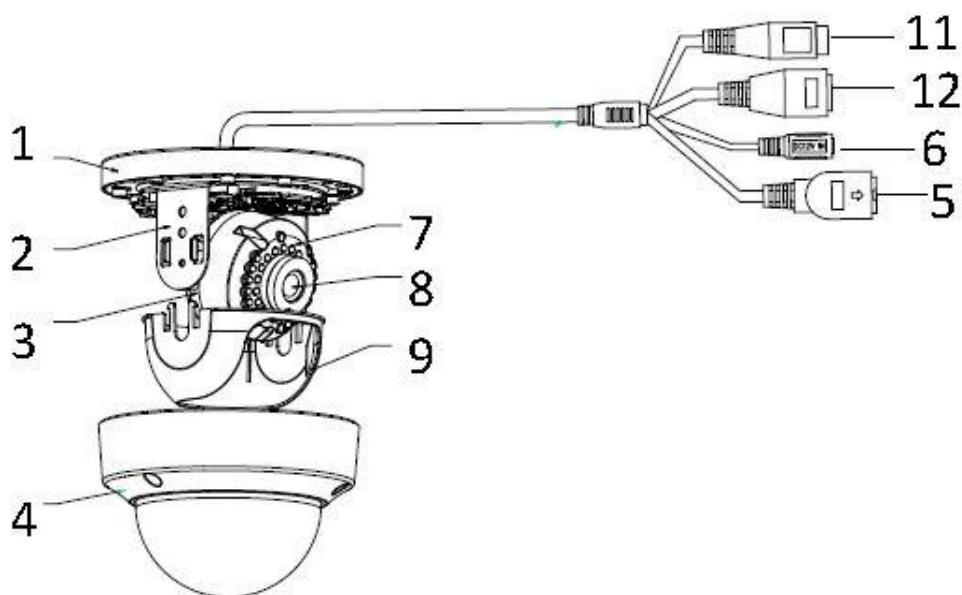
#### **Note:**

1. HIKVISION cameras which have -S in their names support audio function.
2. Some cameras have internal microphone such like DS-2CD2412F-I (W), for these cameras, please skip next section (How to plug active microphone to IPC).

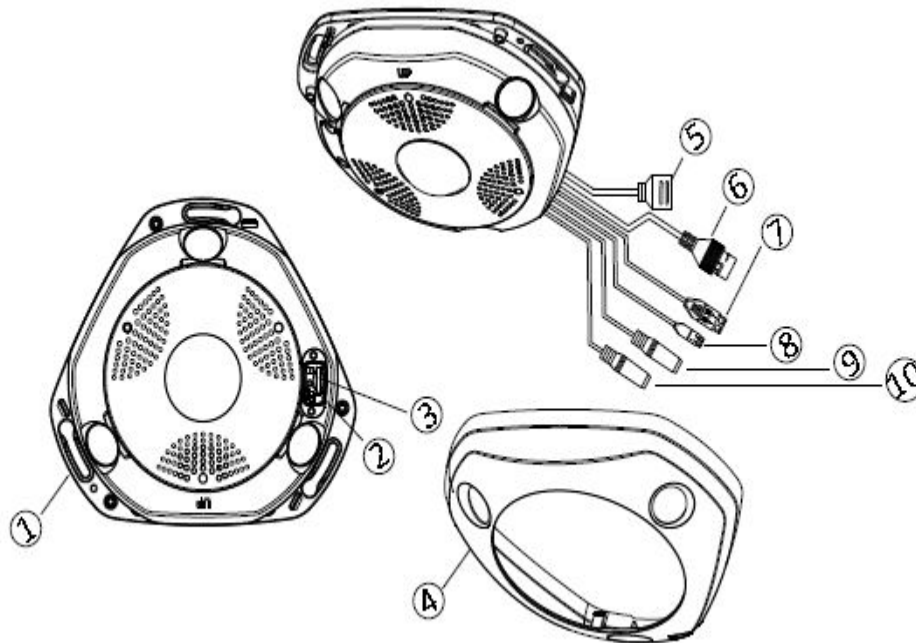
### How to plug active microphone to IPC

1. HIKVISION cameras have different audio interface. Below are two examples.

(1) 21XX Network Camera. In this picture below, the audio interface is 11.



(2) 63XX Network Camera. In this picture below, the audio in interface is 9 and the audio out interface is 10.



2. HIKVISION also offer active microphone units such as DS-2FP2020 (see picture below), you can find three wires come with the unit, their purposes are as below.



Red wire	Power +
White wire	Audio +
Black wire	Power – & Audio –

**Note:**

Active microphone needs external power supply.

3. Take DS-2FP2020, for instance. Connect **Red wire** with **Positive power supply**; connect **White wire** with **Audio in interface**; and then connect **Black wire** with **Negative power supply** and **Audio GND interface** together.


## How to start audio live view & playback

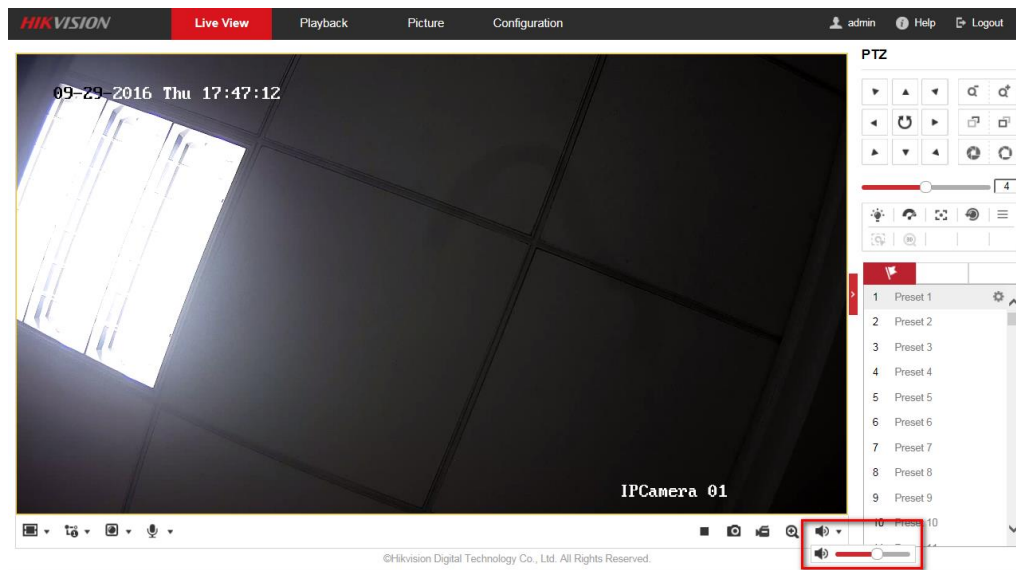
1. In the camera web interface, go to **Configuration - Video/Audio** and set the video type to **Video&Audio**, and then go to **Audio** tab to set audio input to **LineIn**. If needed, you may enable environmental noise filter.


The screenshot displays the Hikvision camera web interface's Configuration page. The top navigation bar includes 'Live View', 'Playback', 'Picture', and 'Configuration' (highlighted in red). On the left, a sidebar lists 'Local', 'System', 'Network', 'Video/Audio' (selected), 'Image', 'Event', and 'Storage'. The main content area is divided into two tabs: 'Video' and 'Audio'. The 'Video' tab is active, showing settings for Stream Type (Main Stream(Normal)), Video Type (highlighted with a red box and set to 'Video&Audio'), Resolution (2688\*1520), Bitrate Type (Constant), Video Quality (Medium), Frame Rate (15 fps), Max. Bitrate (640 Kbps), Video Encoding (H.264), H.264+ (OFF), Profile (Main Profile), I Frame Interval (15), SVC (OFF), and Smoothing (50). Below this, the 'Audio' tab is visible, showing Audio Encoding (G.711ulaw), Audio Input (highlighted with a red box and set to 'LineIn'), Input Volume (68), and Environmental Noise Filter (OFF). A red 'Save' button is located at the bottom.

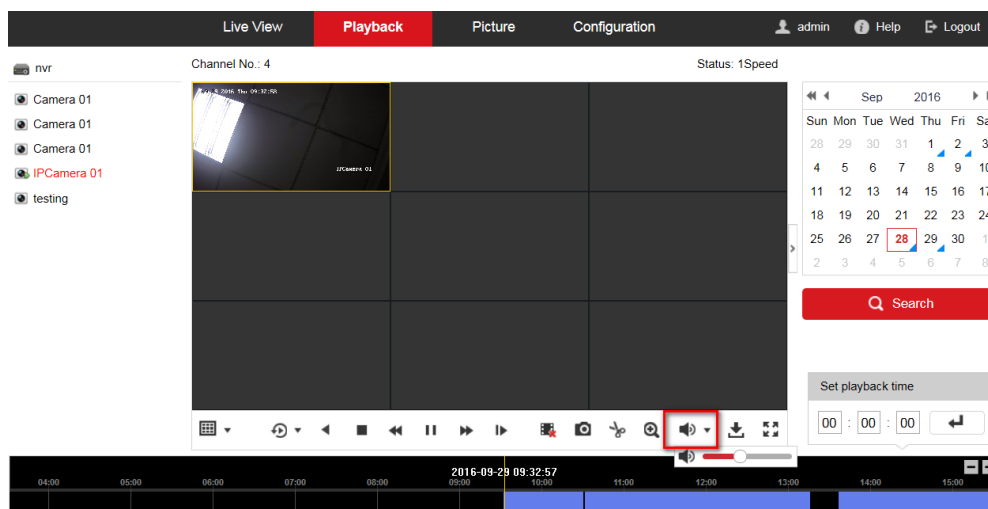
Tab	Setting	Value
Video	Stream Type	Main Stream(Normal)
	Video Type	Video&Audio
	Resolution	2688*1520
	Bitrate Type	Constant
	Video Quality	Medium
	Frame Rate	15 fps
	Max. Bitrate	640 Kbps
	Video Encoding	H.264
	H.264+	OFF
	Profile	Main Profile
	I Frame Interval	15
	SVC	OFF
Smoothing	50 [ Clear<-->Smooth ]	
Audio	Audio Encoding	G.711ulaw
	Audio Input	LineIn
	Input Volume	68
	Environmental Noise Filter	OFF

**Save**

2. Go to **Live View** tab, enable the audio output by clicking  icon and adjust its volume.



3. Connect the camera with a NVR, and make sure its footages have been stored into the NVR.
4. In the NVR web interface, go to **Playback** tab, enable the audio output by clicking  icon and adjust its volume.



5. You may realize audio live view & playback in iVMS client software as well.

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