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|-----------------|---|-----------------|--------|--------------|----------|
| <b>Title:</b>   | How to set audio live view and playback | <b>Version:</b> | v1.0   | <b>Date:</b> | 3/9/2017 |
| <b>Product:</b> | iVMS-4200 & iVMS-4500                   | <b>Page:</b>    | 1 of 6 |              |          |

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## How to set audio live view and playback

### Preparation

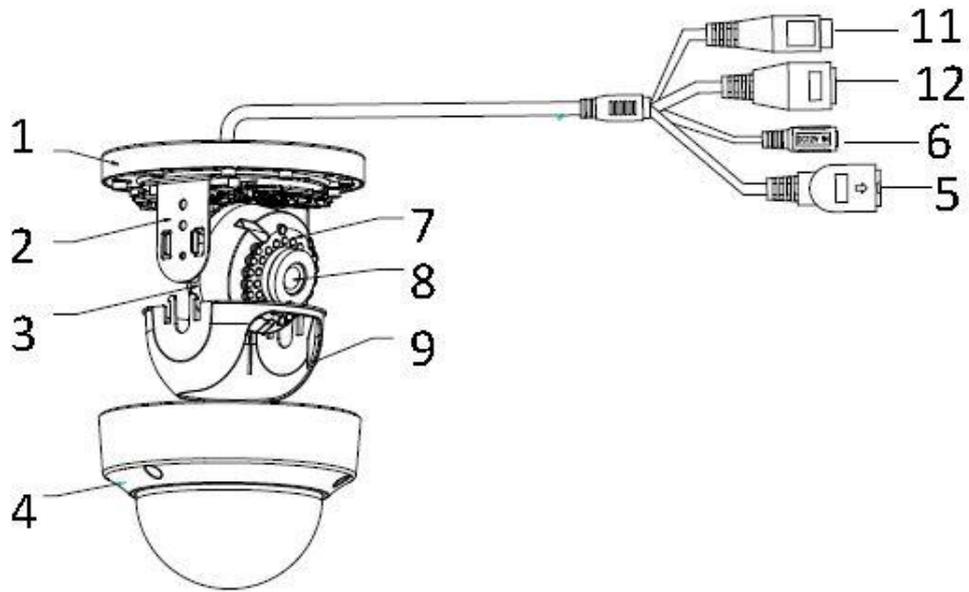
1. Make sure that your camera supports audio function.
2. External active microphone.
3. Client software such as iVMS-4200 & iVMS-4500

#### **Note:**

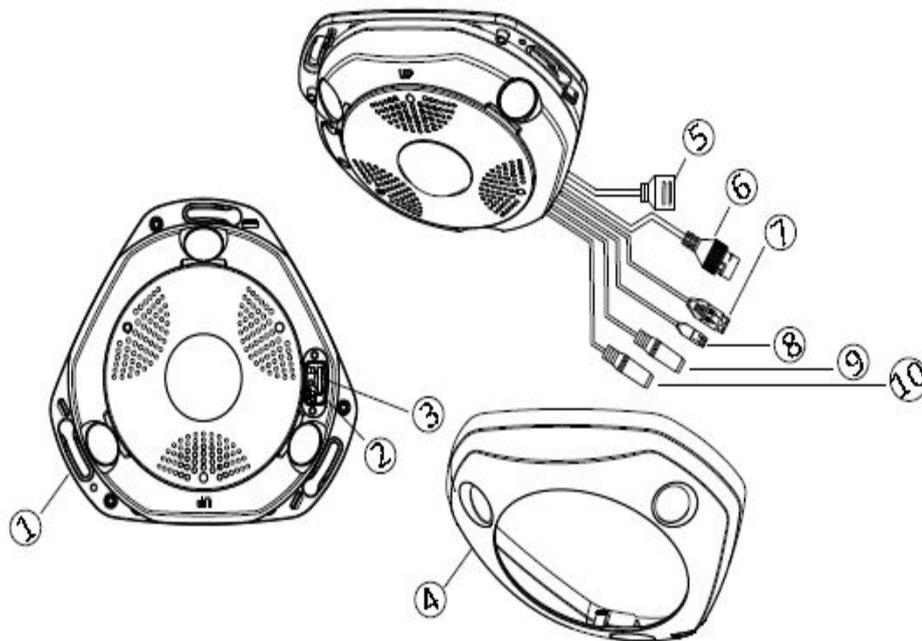
1. HIKVISION cameras which have -S in their names support audio function.
2. Some cameras have internal microphone such like DS-2CD2412F-I (W), for these cameras, please skip next section (How to plug active microphone to IPC).

### 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 + |
|----------|---------|



|                   |                              |
|-------------------|------------------------------|
| <b>White wire</b> | <b>Audio +</b>               |
| <b>Black wire</b> | <b>Power – &amp; Audio –</b> |

**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 shows the 'Configuration' page with the 'Video' tab selected. The 'Video Type' dropdown menu is highlighted with a red box and is set to 'Video&Audio'. Other settings include Stream Type (Main Stream(Normal)), 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).

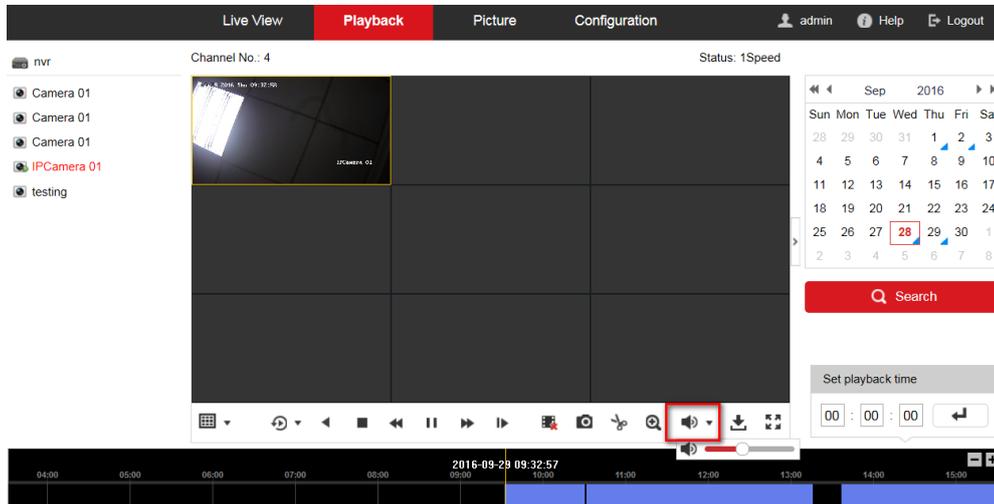
The screenshot shows the 'Configuration' page with the 'Audio' tab selected. The 'Audio Input' dropdown menu is highlighted with a red box and is set to 'LinIn'. Other settings include Audio Encoding (G.711ulaw), Input Volume (68), and Environmental Noise Filter (OFF). A red 'Save' button is visible at the bottom.

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

The screenshot shows the 'Live View' interface. The main video feed is displayed, and the 'PTZ' control panel is visible on the right. The audio output icon and volume slider are highlighted with a red box, indicating that the audio output is enabled and its volume is being adjusted.

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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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