

How to Select the Audio Connector for ACTi Devices

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Introduction

ACTi products produce 128 Kbps audio streams with 8 KHz sample rate and 16-bit encoding. The audio stream is suitable for human speech and monophonic recording.



Audio connectors

There are two types of audio connectors. One is **Mono connector** and the other one is **Stereo connector**. The major differences are that the number of strips they have and whether they have a standard spec or not. A connector's standard will be guaranteed only if it is a Stereo connector.

Connector type	How many strips		Standard Spec for each connector
	3-Strip	2-Strip	
Mono connector			No
Stereo connector			Yes

What kind of audio connectors should you use?

Since the Mono connector is not standardized, using a Mono connector is very likely resulted in the audio function failure. Therefore, **we would strongly recommend using Stereo connectors on all ACTi devices**. Please refer to the table below for more information.

Audio connector type		Stereo	Mono
			
All ACTi with Audio devices	Audio-in	Yes	
	Audio-out	Yes	

How to select a microphone

The original audio input is designed only for human speech. Users may select microphones as telephony level or higher quality, supporting the sampling rate of 8 KHz or higher.

How to select a speaker

The original audio output without additional power supply is suitable for headphone or earphone. Users may select speakers with various types of power supply. Please notice that the audio quality is suitable for human voice only.

How to select an amplifier

When inserting an amplifier to amplify input signals, its impedance should not exceed 4 Ohm (Ω) in order to prevent from damaging the camera