

ASK-4 #370

SPEAKERPHONE with POE INTERFACE

INSTALLATION AND OPERATING INSTRUCTIONS



AOP-SP-CF
SPEAKER/MICROPHONE



IF-PX
AUDIO INTERFACE
ADAPTER

INTRODUCTION

The ASK-4® #370 is a two-way talk and listen single zone audio monitoring system. This system is designed to tap POE power and provide two-way communication through the IP camera's video management software. The IF-PX is a POE inline interface that taps some power from the IP camera's Ethernet powered cable to supply power to the AOP-SP-CF Speaker/Microphones. Model AOP-SP-CF is a ceiling mount self-amplified speaker/microphone designed to connect to an IP camera, encoder, DVR or PC soundcard. Supports both Mode A and Mode B power options of IEEE802.3af

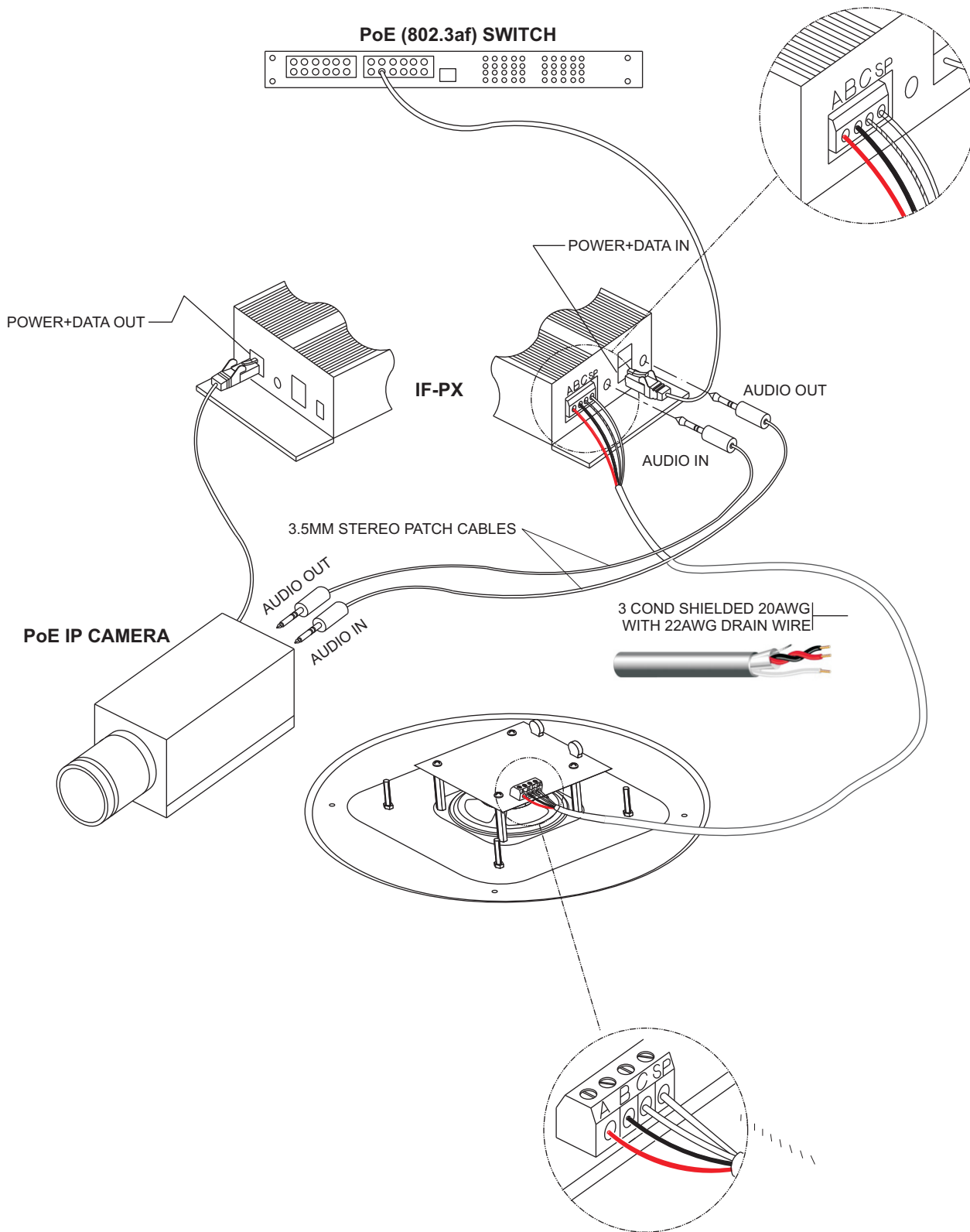
The gain of the microphone and speaker are factory adjusted. If it is necessary to change the gain of either or both the audio output of the microphone and speaker of the unit, it has to be done in small increments. For adjusting the gain of the microphone, rotate clockwise to increase or counterclockwise to decrease, the potentiometer marked "MIC" slowly until the desired level is attained. Somebody at the head-end has to listen to it while the adjustments are made. If the microphone's gain is too high, it will attenuate the audio output of the speaker. The output of the speaker will then be cutting off as you talk. If this happens, rotate the potentiometer marked "MIC" slowly counterclockwise to decrease the gain of the microphone until the talkback sound at the speaker no longer cuts off.

To adjust the audio output of the speaker, rotate the "SPKR" potentiometer clockwise (increase) or counterclockwise (decrease) slowly until the desired loudness is attained. If the audio from the microphone becomes attenuated, rotate the "SPKR" potentiometer counterclockwise a small increment at a time until the microphone audio becomes louder again.

This unit has a built-in muting system that if the microphone's adjustment (MIC) is too high it is going to mute the speaker. Also if the speaker's adjustment (SPKR) is too high, it's going to mute the microphone.

INSTALLATION AND OPERATING INSTRUCTIONS

INTERCONNECTION DIAGRAM BETWEEN A PoE SWITCH, IF-PX, IP CAMERA AND AOP-SP SPEAKER/MICROPHONE UNIT FOR ADDING TWO-WAY AUDIO



INSTALLATION AND OPERATING INSTRUCTIONS

CONNECTING PoE SWITCH TO PoE IP CAMERA OR ENCODER (See Fig. 3 and 4)

1. Connect Ethernet cable from PSE (Power Source Equipment) to the Power+Data Input Jack of the IF-PX.
2. Connect Ethernet cable from camera to Power+Data Output Jack of the IF-PX. Camera should now have power and data running through it. Power Indicator lights up.
4. **AOP-SP Connection (two-way audio): Before connecting the AOP-SP series, make sure that the Ethernet cables between the PSE, IF-PX and Camera are all connected.**
 - a) Connect a 3 cond shielded cable between the AOP-SP and the pluggable header (Mic/Speaker Audio Terminal Block) of the IF-PX. Connect terminal A of the AOP-SP to terminal A of IF-PX; connect terminal B of AOP-SP to terminal B of IF-PX; terminal C of AOP-SP to terminal C of IF-PX and terminal SP of AOP-SP to terminal SP of IF-PX.
 - b) Using the patch cable (stereo plug to stereo plug), connect the Audio Output Jack of the IF-PX to the audio input of the camera or encoder. Connect the Audio Input Jack of IF-PX to audio output of the camera or encoder. See interconnection diagram on page 5.
 - c) See installation instructions of AOP-SP for setting up and operation of the unit.
5. **Setup camera for video and audio monitoring.** Use an amplified speaker and a microphone to test the audio. A push to talk microphone is recommended to minimize the echo when doing two-way audio. See camera user manual for setting up the camera to the network.

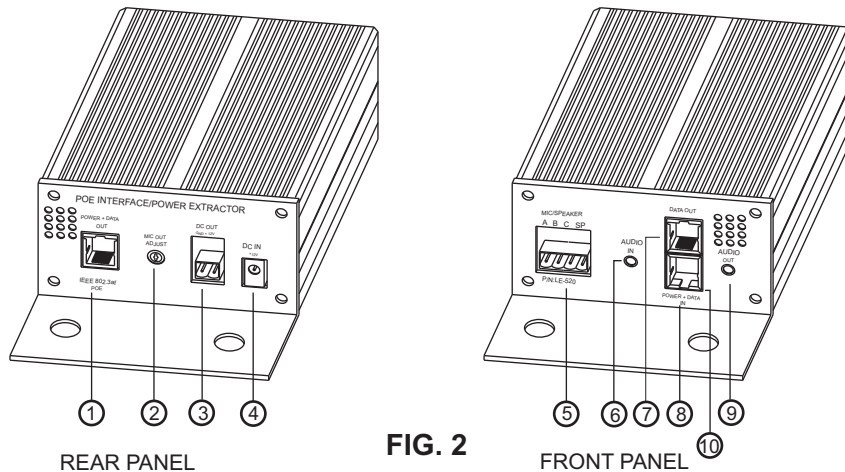


FIG. 2

ILLUSTRATED PARTS

- | | |
|------------------------------------|---|
| ① Power+Data Output Jack | Connects to PoE IP Cameras and/or Encoder |
| ② MIC Out Adjust | Adjust the audio output gain of the microphone |
| ③ DC Out Terminal Block | Provides +12Vdc voltage to power external equipment such as Non-PoE cameras, encoders, relays, etc. |
| ④ DC IN Power Jack | Receives 12Vdc power from external power supply (not supplied) |
| ⑤ Mic/Speaker Audio Terminal Block | Receives wiring from Louroe Verifact Microphone and/or AOP-SP series |
| ⑥ Audio Input Jack | Receives audio from IP Camera, Encoder, etc. and connects to audio output for talkback operation |
| ⑦ Data Out Only Jack | Connects to data input of Non-PoE IP Cameras, and Encoders. |
| ⑧ Power+Data Input Jack | Connects to PoE (802.3af) Switch or PoE (802.3af) Midspan |
| ⑨ Audio Output Jack | Connects to audio input of IP cameras, Encoder, etc. Provides audio to IP Cameras, Encoder, etc. |
| ⑩ Power Indicator | Lights Green indicating power is present to the unit |

SPECIFICATIONS (IF-PX)

Ethernet Connectors	RJ45 CAT 5 Input and Output Jacks
▪ Voltage Input	36V - 57V
▪ DC Output	12Vdc, 800mA
▪ Optional Power Supply	12Vdc, 2A, Ext. Power Supply (Not Supplied)
▪ Connectors	RJ-45, DC Jack, Terminal Block for Microphone/Speaker 3.5mm Stereo Jacks for Audio IN/OUT
▪ Audio Output/Input	Line level
▪ Audio Output Gain	up to +15dB
▪ Dimensions	6"L x 3 1/2"W x 2 1/8"H
▪ Weight	13oz.

SPECIFICATIONS (Speaker/Microphone)

▪ Type	Electret Condenser
▪ Audio output	Line level (0 dB @ 600Ohm) unbalanced
▪ Frequency response	40 Hz - 10 kHz
▪ Speaker power output	1.5W
▪ Speaker impedance	8 Ohm
▪ Speaker size	4" (102mm)
▪ Current Drain	200mA
▪ Supply Voltage	12Vdc
▪ Weight,net (AOP-SP-CF)	2.5 Lbs (1.1 Kg)