

ASK-4® #302

AUDIO MONITORING SYSTEM

INSTALLATION AND OPERATING INSTRUCTIONS



MODEL IF-2 INTERFACE ADAPTER



AD-1 POWER SUPPLY



VERIFACT® A MICROPHONES

ASK-4® #302 is a two zone audio monitoring system designed for direct connection to:

- DVR or VCR
- IP Network Camera
- PC Soundcard
- Video Server

or other audio receiving devices that accept line level audio (0dB@600Ω)

CONTENTS OF ASK-4® #302

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| , 2 Verifact® A Microphone | Omni-directional Microphone |
| , 1 Model IF-2 | Audio Interface Adapter |
| , 1 Model AD-1 | 12 Vdc power supply |
| , 2 Single RCA Cable | For connection to DVR, VCR, etc. |
| , 2 RCA to 3.5mm Mono Adapter | For connection to a Sound Card, IP Network Camera, or Video Server with 3.5mm audio input |

WIRING REQUIREMENTS

2 Conductor **shielded** cable, 22 gauge with a 24 gauge drain wire

NOTE: Unshielded cable is not satisfactory for audio systems

West Penn 452 or equivalent



INSTALLATION AND OPERATING INSTRUCTIONS

WIRING REQUIREMENTS

2 conductor shielded, 22 gauge, with a 24 gauge drain wire.
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MICROPHONE INSTALLATION - MECHANICAL

Model A Microphone is designed for surface mounting to a ceiling or wall. Microphone will pick up sounds 15' away from all directions. For best results, install microphone as close to desired area of coverage as possible. Avoid mounting microphone to ceiling heights in excess of 10', or near air vents, refrigeration units, or other audio interferences.

NOTE: Make wiring connection on back side of microphone before installing microphone to ceiling or flat surface.

MICROPHONE INSTALLATION - ELECTRICAL

Located on back side of microphone is a terminal block marked A, B and C.

A is 12 Vdc

B is Audio

C is Ground (common)

Using recommended wiring, connect as follows:

RED wire to terminal A (12Vdc)

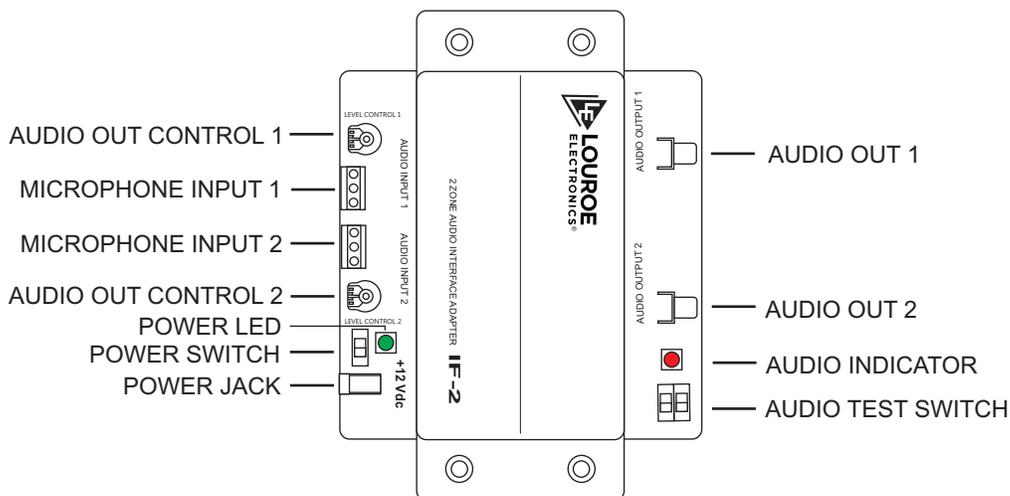
BLACK wire to terminal B (Audio)

BARE wire to terminal C (Ground)

NOTE: If using wiring from other manufacturers, color code may vary.

Repeat connections for the second microphone.

LOUOE MODEL IF-2 AUDIO INTERFACE ADAPTER



INSTALLATION AND OPERATING INSTRUCTIONS

MECHANICAL INSTALLATION - MODEL IF-2 INTERFACE ADAPTER

The IF-2 Interface Adapter serves as an interface device between the microphone and the audio receiver (DVR/VCR, PC sound card, etc.). The IF-2 can be installed several ways:

- 1) Wall mounted close to DVR/VCR or IP Network Camera, etc.
- 2) Attached to side of the receiving device using two-way ¼" adhesive tape (not provided)

MICROPHONE CONNECTION TO IF-2 INTERFACE ADAPTER

Bring in other end of wiring from microphone and connect to "Microphone Input 1" terminal block on IF-2 marked, A, B and C. Connect as follows:

Terminal A of microphone to terminal A of IF-1	12Vdc
Terminal B of microphone to terminal B of IF-1	Audio Output
Terminal C of microphone to terminal C of IF-1	Ground (common)

Repeat connections for zone 2 for the second microphone by connecting it to Microphone Input 2 terminal block.

To apply power to the system, Model AD-1 12Vdc power supply is included. First connect small end (female 90° plug) into 12Vdc jack on IF-1, then connect 2-prong power block to a standard 110Vac outlet or power strip.

CONNECTION BETWEEN IF-2 INTERFACE ADAPTER AND DVR/VCR WITH RCA TYPE AUDIO CONNECTIONS

To make connection to DVR/VCR, plug the RCA cable (supplied) into the RCA type audio output jack located on the output side of Model IF-2. Connect other end of RCA cable to the DVR/VCR's "AUDIO IN" jack (**see drawing on page 4**). Repeat connection for zone 2 or the second output of the IF-2.

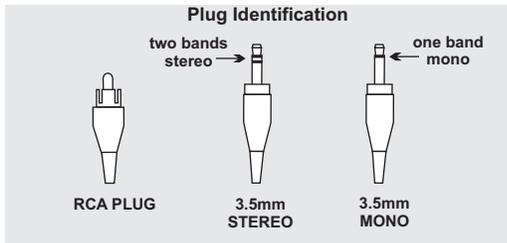
CONNECTION BETWEEN IF-2 AND AN IP NETWORK CAMERA, DVR, VIDEO SERVER WITH 3.5mm MONO TYPE AUDIO CONNECTIONS

To make connection to IP Network Camera, plug the RCA to 3.5mm mono adaptor (supplied) into one end of the RCA cable and connect that end to the camera audio input. Connect the other end with RCA plug to the Audio Out 1 located on the output side of IF-2. Repeat connections for zone 2 or for Audio Out 2, the other output of the IF-2 (**see drawing on page 5**).

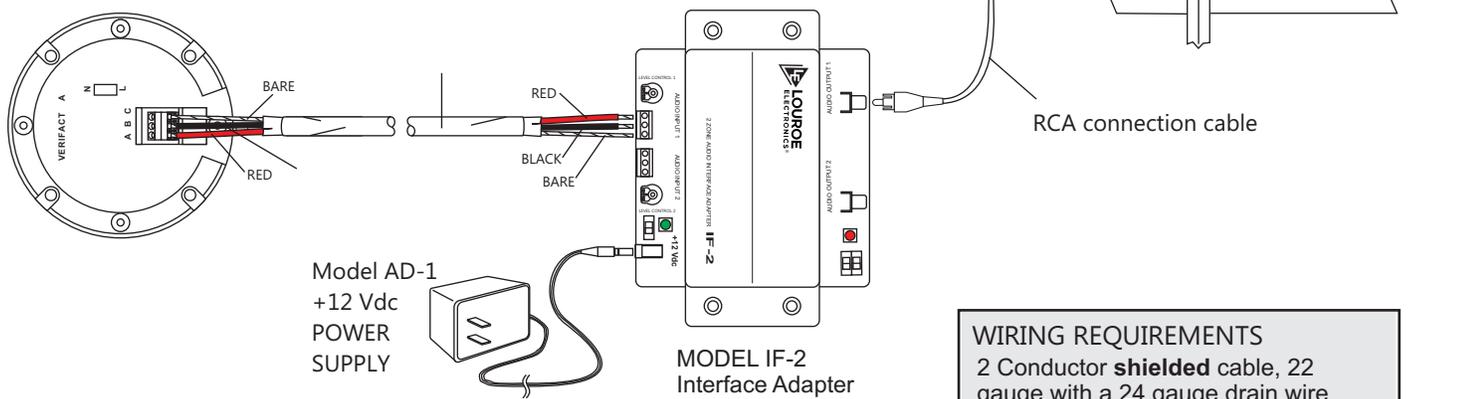
INTERCONNECTION DIAGRAM

FOR

LOUROE ASK-4[®] 302 AUDIO MONITORING SYSTEM AND DVR/VCR, VIDEO SERVER, ETC. WITH RCA AUDIO INPUT



RCA Plug used for this application



WIRING REQUIREMENTS

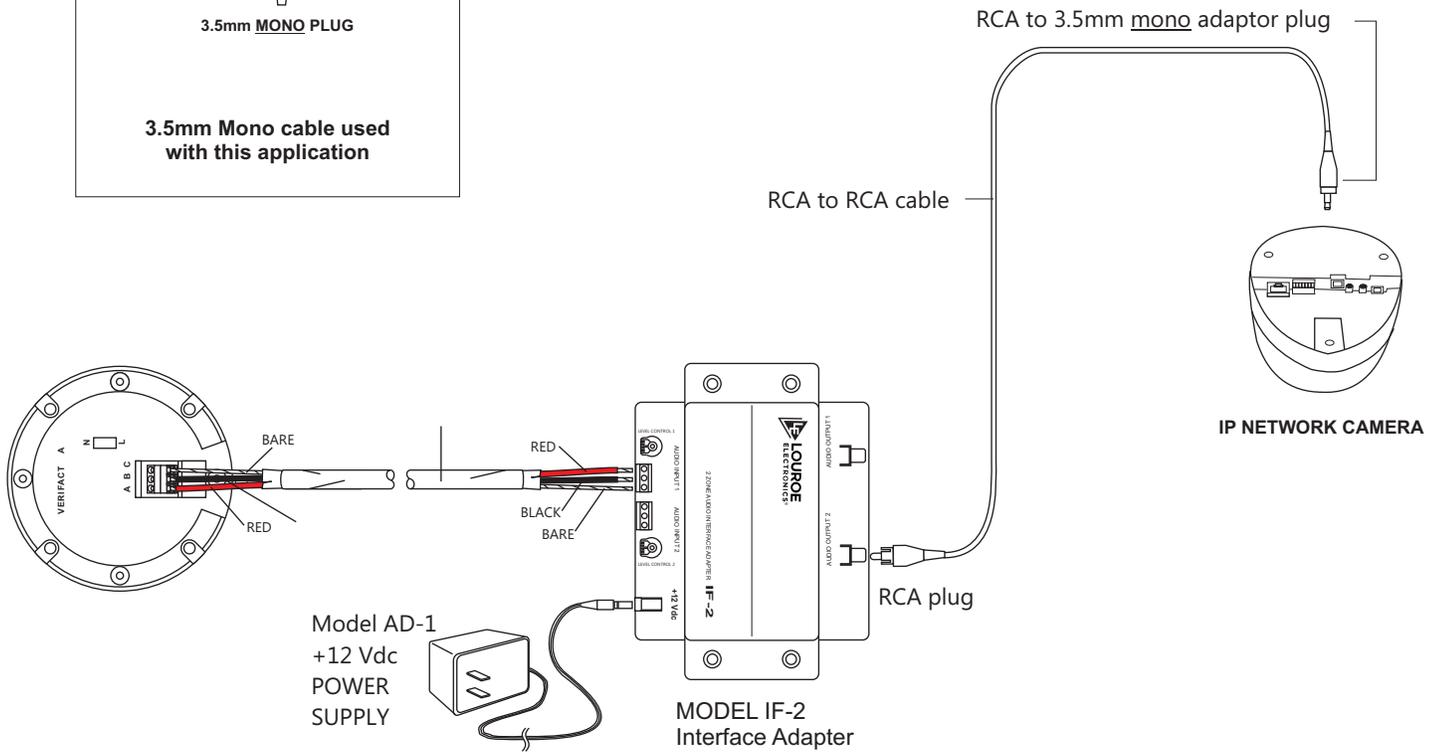
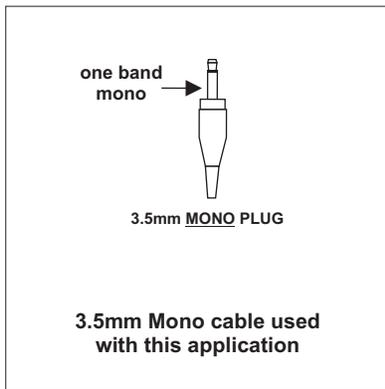
2 Conductor **shielded** cable, 22 gauge with a 24 gauge drain wire

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West Penn 452 or equivalent



INTERCONNECTION DIAGRAM FOR LOUOE ASK-4[®] 302 AUDIO MONITORING SYSTEM AND AN IP NETWORK CAMERA, DVR, VIDEO SERVER WITH 3.5mm MONO AUDIO INPUT



INSTALLATION AND OPERATING INSTRUCTIONS

SENSITIVITY SWITCH OF MICROPHONE

For special installations that require less microphone sensitivity, a sensitivity switch has been added to the microphone pre-amp (PC board) and has two positions - N and L:

N represents normal sensitivity (0dB output into 1KW)

L represents low sensitivity (-6dB output into 1 KW)

NOTE: Louroe™ Verifact microphones are always shipped with the sensitivity switch in normal (N) position. Do not change unless required.

To make an adjustment, use a small screwdriver and move slide switch from N to L. Sensitivity switch is located on the backside of Verifact™ A Microphone.

SPECIFICATIONS (IF-2 Interface Adapter)

■ Input impedance	17.5 K Ω @ 1kHz
■ Output impedancel	600 Ω @1kHz
■ Power supply	12Vdc, 500 mA
■ Dimensions	6 1/8"L x 4 5/8"W x 1 3/8"H
■ Audio output gain	up to +10dB
■ Weight	7 oz

SPECIFICATIONS (Microphone - Model A)

■ Type	Electret Condenser
■ Output	Line Level (0 dB 600 Ω @ 1 kHz)
■ Frequency response	50 Hz to 15 kHz \pm 1 dB
■ Current drain	10 mA
■ Supply voltage	12Vdc
■ Dimensions	4"Dia x 1 1/2"H
■ Weight	3.5 oz
■ Shipping Weight	2 lbs

IMPORTANT NOTICE

When this equipment is used as part of an audio monitoring system, the law requires that the public be given notice of AUDIO MONITORING ON THE PREMISES. A decal notice is included with each microphone shipped.



Federal Law References:
Federal Regulations, US Code, Title 18. Crime and Criminal Procedure, Sec 2510.

WARRANTY

LOUROE ELECTRONICS® warrants that at the time of shipment products manufactured by LOUROE ELECTRONICS® to be free of defects in material and workmanship. Should a defect appear within one year (12 months) from date of shipment, LOUROE ELECTRONICS will, at its sole discretion, repair or replace the defective equipment. This equipment shall not be accepted for repair or return without prior notification by LOUROE ELECTRONICS®.

This warranty does not extend to any Louroe product that has been subjected to improper or incorrect installation, misuse, accident, or in violation of installation instructions provided by LOUROE ELECTRONICS®.

Returned shipments to LOUROE ELECTRONICS® shall be at customer's expense. LOUROE ELECTRONICS® will return the equipment prepaid via best way.

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