

**INSTALLATION AND OPERATING INSTRUCTIONS**
**ASK-4® # 302 (LE-374)**

ASK-4® 374 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).

**KIT CONTENT**

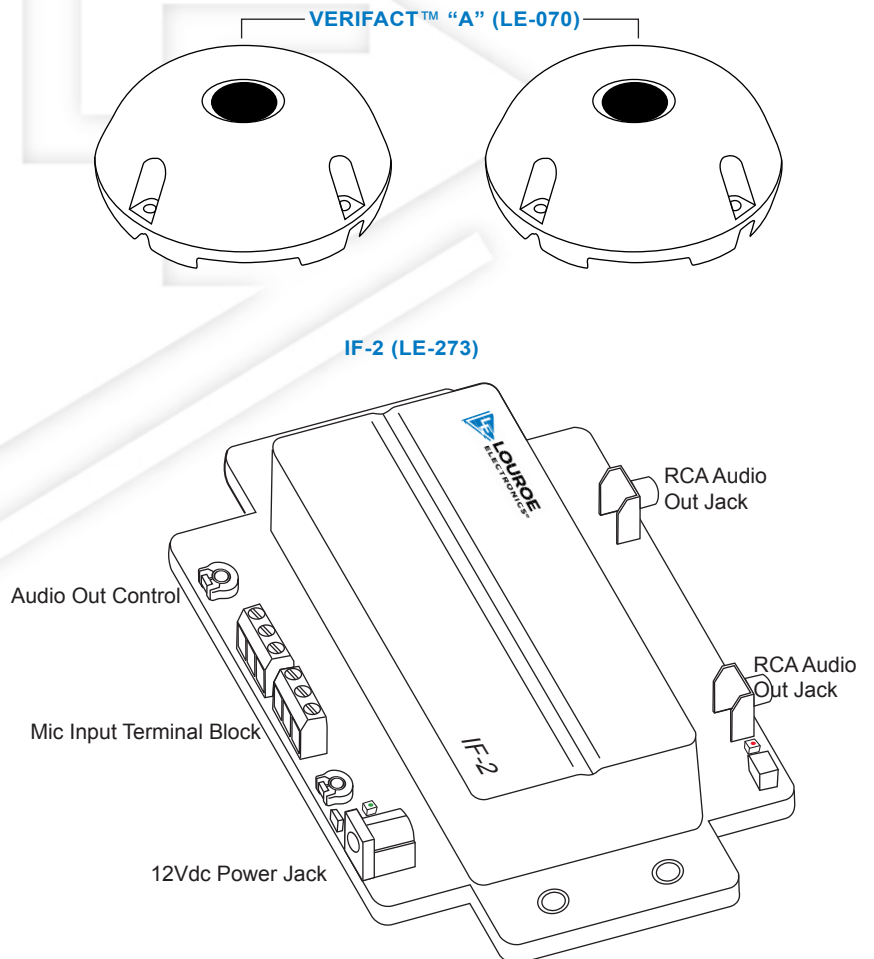
PRD #	Description
(2) Verifact™ "A" Microphone (LE-070)	Line Level, Electret condenser microphone with preamp. Picks up normal sounds within 30' circle. May be located Up to 1000' from IF-2 Interface Adapter.
Model IF-2 (LE-273)	2 Zone Audio Interface Adapter. Provides power and gain and to Verifact "A" microphones.
AD-1 (LE-242)	UL listed AC ADAPTER. Supplies 12 Vdc to IF-2 and Verifact "A" Microphones.
(2) Single RCA Cable	For connection to DVR, VCR, etc
(2) RCA to 3.5mm Mono Adapter	For connection to an IP Camera with a Adaptor 3.5mm mono audio input.

**VERIFACT™ "A" (LE-070)**

Type	Electret Condenser
Output	Line Level 0 dB @ 1KΩ, unbalanced
Frequency Response	40 Hz to 15 kHz ± 1 dB
Current Drain	4 mA
Supply voltage	12Vdc
Dimensions	4" Dia x 1 1/2"H
Weight (shipping)	0.25Lbs (0.11kg)

**IF-2 (LE-273)**

Input Impedance	1KΩ
Output Signal	0 dB@600Ω
Power Supply	12Vdc, 500 mA
Dimensions	6 1/8"L x 4 5/8"W x 1 3/8"H
Weight (shipping)	1.7lbs (0.8kg)



**INSTALLATION AND OPERATING INSTRUCTIONS**

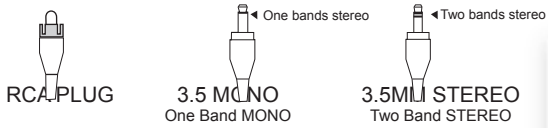
**INTERCONNECTION DIAGRAM**

**WIRING REQUIREMENTS**

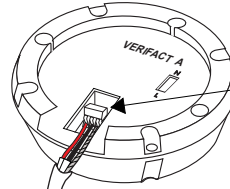
Both the Verifact™ "A" Microphone and IF-2 Interface.  
2 Conductor shielded cable, 22 gauge with a 24 gauge drain wire.



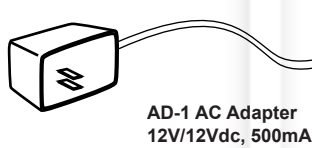
**PLUG IDENTIFICATION**



**VERIFACT™ "A" (LE-070)**

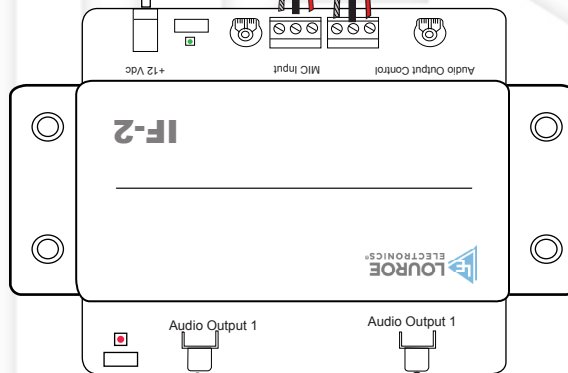


**Terminal block Identifier for Microphone**  
(A) Red - 12Vdc power  
(B) Black - Audio Output  
(C) Bare - Ground



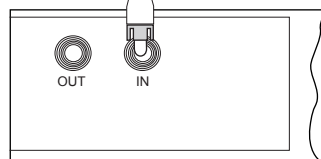
**AD-1 AC Adapter**  
12V/12Vdc, 500mA

**IF-2 (LE-273)**



**RCA Connection Cable**

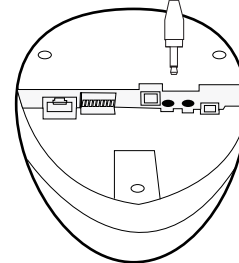
**RCA Audio Input**



**REAR PANEL OF RECORDING DEVICE**

**OR**

**RCA to 3.5mm MONO Adaptor plug**



**IP NETWORK CAMERA**

## INSTALLATION AND OPERATING INSTRUCTIONS

### INSTALLATION INSTRUCTIONS

#### VERIFACT "A" MIC INSTALLATIONS INSTRUCTIONS

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.**

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)

1. 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.**

#### IF-2 INTERFACE ADAPTER INSTALLATIONS INSTRUCTIONS

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 "MIC INPUT" terminal block on IF-2 marked, A, B and C. Connect as follows:

- Terminal A of microphone to terminal A of IF-2 12Vdc
  - Terminal B of microphone to terminal B of IF-2 Audio Output
  - Terminal C of microphone to terminal C of IF-2 Ground (common)
- Repeat for the second microphone for connections to zone 2.

To apply power to the system, Model AD-1 12Vdc power supply is included. First connect small end (plug) into 12Vdc jack on IF-2, then connect 2-prong power block to a standard 110Vac outlet or power strip. **NOTE: IF-2 contains two types of audio outputs. A connection cable is provided for each type.**

1. RCA
2. RCA to 3.5mm mono adaptor.

These two audio outputs are in parallel ... **only one can be used.**

### CHOOSE YOUR SETTING

#### DVR/VCR - RECORDING INSTRUCTIONS

##### 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

#### IP NETWORK CAMERA INSTRUCTIONS

##### 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 cable with adaptor (supplied) into the RCA audio out jack located on the output side of IF-2, connect other end of cable (3.5mm) to the camera's audio in jack.

### NOTE

#### 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.**

## 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.

### 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.

## ABOUT LOUROE ELECTRONICS

Located in Van Nuys, California and 32 years young, Louroe Electronics™ has been the world leading Audio Manufacturer. Our continued growth has resulted from providing innovative products, receiving high customer satisfaction, maintaining strict devotion to quality standards and following the law in Federal, State and Municipal Jurisdiction.

Our "Verifact" line of amplified microphones, complementing base stations, and communication accessories, provide line level output to interface with various digital electronics. Our products are compatible with a wide range of digital video recorders, video cassette recorder, Internet Protocol Network video systems, video servers and computer based recorders.

We are recognized worldwide for our variety of audio monitoring technology. Our products are used in over twenty countries and are utilized in both the private sector and government applications. We currently serve the needs of law enforcement, security, health care, entertainment, hospitality and retail industries and many more.

At Louroe Electronics we maintain rigorous standards to ensure our products provide reliability, durability and excellent performance for our customers' needs. We are proud to continue designing, engineering and manufacturing at our headquarters base in Van Nuys, California.

