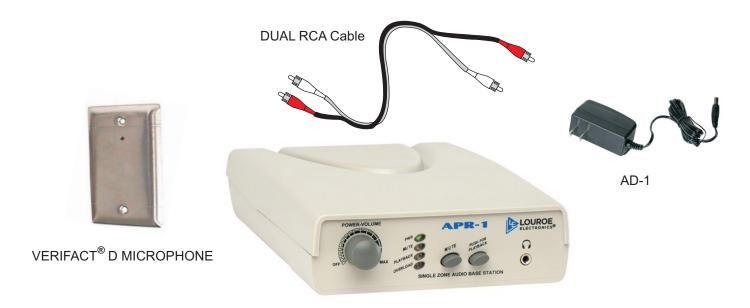


# ASK-4® #102 AUDIO MONITORING SYSTEM INSTALLATION AND OPERATING INSTRUCTIONS

The ASK-4<sup>®</sup> #102 is a single zone audio monitoring system designed to interface with a DVR, VCR or other recording devices that accept line level input. The APR-1 Audio Base Station contains a built-in 3" speaker and volume control for producing live audio and audio playback.



**APR-1 AUDIO BASE STATION** 

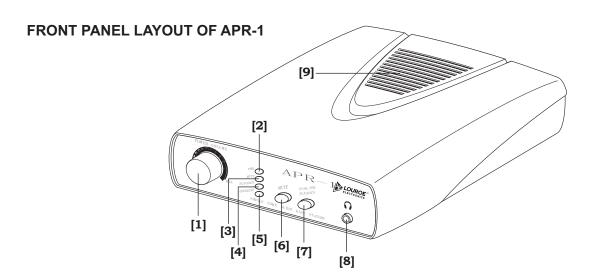
Description
Audio Base Station. Used for listening to live audio from microphone, as well as playback from DVR's, VCR's or other external audio sources. UL® listed
Electret condenser microphone with preamp. Picks up normal sounds 15' away (wall mounted) or within a 30' diameter (ceiling mounted). May be located Up to 1000' from APR-1 Base Station. UL® listed
UL® listed AC ADAPTER. Supplies 12 Vdc to APR-1 and Microphone.
RCA cable for connections to a DVR/VCR or other audio devices that accept line level inpu (0dB @ 600W).

LOUROE ELECTRONICS® 6955 VALJEAN AVENUE, VAN NUYS, CA 91406 TEL (818) 994-6498 FAX (818)994-6458 website: www.louroe.com e-mail: sales@louroe.com

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### **DESCRIPTION**

THE APR-1 IS SHOWN BELOW. ALL CONTROLS ARE LOCATED AT THE FRONT PANEL. ALL CONNECTIONS ARE MADE AT THE REAR PANEL.

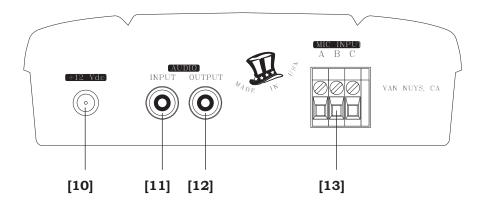


[1]	Power-Volume	Turns "ON" power to the unit and controls the audio volume through the <b>Speaker[9]</b> .
[2]	Power Indicator	Lights (green) when the power is present to the unit.
[3]	Mute Indicator	Lights (orange) when <b>Mute Switch[6]</b> is pushed in. Audio is muted.
[4]	Playback Indicator	Lights (yellow) when <b>Push for Playback[7]</b> is pushed in to "ON" position.
[5]	Overload Indicator	Flashes (red) when there is a short in the power supply.
[6]	Mute Switch	Used to mute the audio on both live and playback mode.
[7]	Push for playback	Used for DVR/VCR playback. May also be used to listen to audio from an external source. Press switch to listen to playback. Switch must be "OUT" or "OFF" when monitoring and recording, otherwise live audio is muted.
[8]	Headphone Jack	Used for private listening. Any 3.5mm stereo headphone with $8\Omega$ to $600\Omega$ impedance can be used.
[9]	Speaker (3")	Provides live audio. Muted when a headphone is connected to Headphone Jack [8].

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### INSTALLATION AND OPERATING INSTRUCTIONS

### **REAR PANEL LAYOUT OF APR-1**



Accepts 12Vdc power from Model AD-1 Power Supply [10] Power Jack

(included with APR-1 Audio Base Station). AD-1 has a 90° 2.1mm female plug.

Accepts audio playback from an external source (DVR/VCR). [11] AUDIO IN Jack (RCA)

Audio playback is produced through the speaker. The Push for Playback[7]

must be "IN" during audio playback and "OUT" when

not used for playback.

[12] AUDIO OUT Jack (RCA) Provides audio output and connection to a DVR, VCR, etc.

A 3-pin terminal block marked A, B, C. [13] Audio Terminal Block

Accepts wiring from the remote Louroe Microphone.

A is 12Vdc Power

B is Audio

C is Ground

### SENSITIVITY SWITCH OF VERIFACT® A MICROPHONE

For special installations that require less microphone sensitivity or where there is background noise, a sensitivity switch is mounted to the microphone pre-amp (PC Board) and has two positions, N and L:

N represents normal sensitivity (0dB ouput into  $1k\Omega$ )

L represents low sensitivity (-6dB output into  $1k\Omega$ )

Louroe VERIFACT microphones are always shipped with the sensitivity switch in normal (N) position. Do not change unless necessary. To change the sensitivity setting, use a small screwdriver and move slide switch from N to L position. The switch is mounted on the back side of the microphone housing.

## NOTE REGARDING INTERFACING ASK-4® #102 WITH A DVR OR PC SOUNDCARD

The APR-1 Audio Base Station of ASK-4® #102 is compatible with all commercial DVR's and PC Soundcards that accept line level input (0dB@ $600\Omega$ ). An RCA cable is included with the kit for connecting **Audio Out** to Audio In of DVR. If DVR's audio input is a 3.5mm jack, an RCA to 3.5mm adapter (not supplied) must be attached to the plug that connects to DVR's Audio Input. Check with DVR's specifications to determine if the audio input requires a stereo or mono 3.5mm plug.

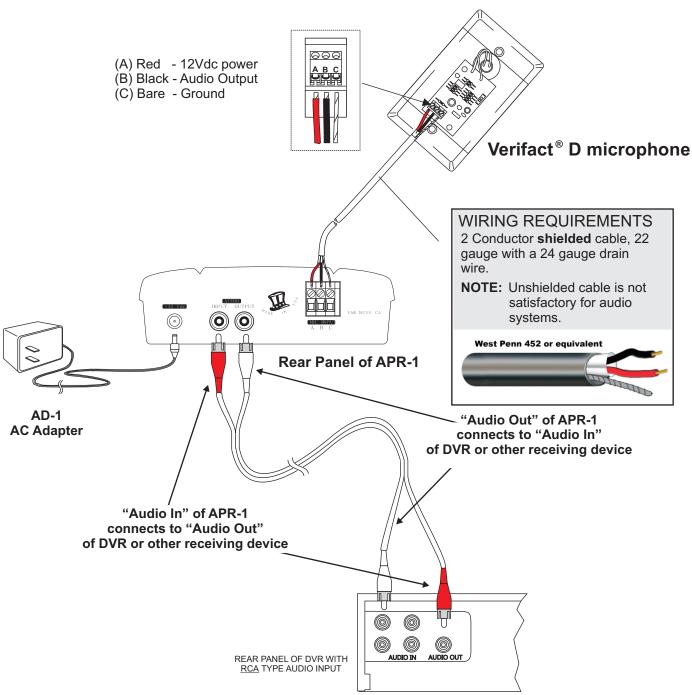
PC soundcards contain a standard 3.5mm stereo Audio Input or Line Input. Do not use Mic Input of soundcard. Louroe microphones are line level (0dB@ $600\Omega$ ) and will overdrive the Mic Input. Use "Audio Input" or Line Input" of the soundcard.

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# INTERCONNECTION DIAGRAM

VERIFACT® "D" MICROPHONE TO APR-1 BASE STATION TO DVR, VCR, ETC.



NOTE: If DVR's audio input and output are 3.5mm (mini jack) type, use the appropriate adapter at one end of RCA patch cable for connection. Check with manufacturer's specifications to determine if 3.5mm audio input/output is mono or stereo.

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### INSTALLATION AND OPERATING INSTRUCTIONS

### WIRING CONNECTIONS AND TEST

Both the Verifact® D Microphone and APR-1 Audio Base Station contain a 3-pin terminal block marked A, B, C.

A = 12Vdc Power Red Wire 2 Conductor shielded cable, 22 gauge with a 24 gauge drain wire. C = Ground Bare Wire West Penn 452 or equivalent

- 1. Starting with the microphone, connect **RED** wire to Pin A, **BLACK** wire to Pin B and **BARE** wire to Pin C. Connect other end of cable to Terminal Block on back panel of APR-1 Base Station matching **RED** wire to Pin A, **BLACK** wire to Pin B and **BARE** wire to Pin C. Refer to drawing on page 4.
- 2. Plug AD-1 power supply (AC Adapter) into the **Power Jack[10]** located on back panel of APR-1 first. Then connect 2-prong block into standard 110/120 AC wall receptacle or power strip.
- 3. Turn "ON" power to APR-1 by rotating the Power-Volume Knob[1] clockwise. The green Power Indicator[2] LED will illuminate. Adjust volume of audio by rotating the knob either clockwise to increase or counterclockwise to decrease. Locate microphone so as not to create feedback with the APR-1. The further the microphone is from the APR-1 the less feedback it generates. System works best if there is an acoustical barrier between the microphone and the
  - APR-1, such as a wall or room divider. If there is no wall or barrier, microphone should be mounted at least 25 ft. from the APR-1 Base Station.
- 4. Plug headphone into the **Headphone Jack[8]**. **Speaker[9]** output is muted and sound is transmitted through the headphone.
- 5. Using the dual RCA cable (supplied), connect DVR/VCR's AUDIO OUT jack to APR-1's AUDIO IN Jack[11].
- 6. Connect DVR/VCR's AUDIO IN jack to APR-1's AUDIO OUT Jack[12].
- 7. Press "REC" on the recording device and record live audio for several minutes.
- 8. Press Push for Playback Switch[7] to "ON" position. Playback Indicator LED[4] will illuminate yellow.
- 9. Press "PLAY" on the DVR/VCR to playback recorded audio from the APR-1.
- 10. Press Mute Switch[6] to mute audio heard on the speaker. Mute Indicator LED[3] will light and no audio can be heard on the speaker on both live and playback audio. When Mute Switch[6] is ON Playback Indicator LED[4] will not light even when the Push for Playback Switch[7] is pushed in and the audio is muted.

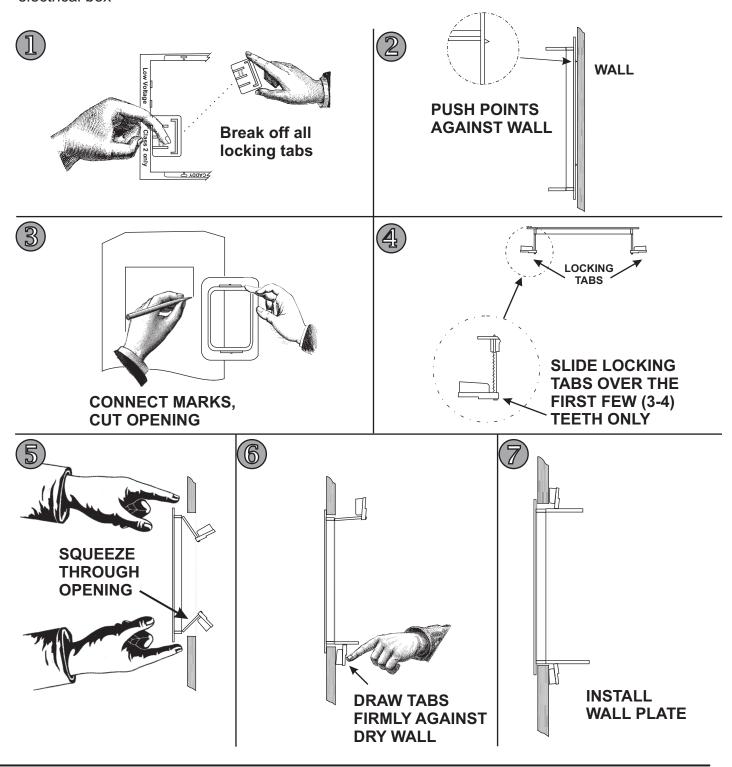
### **INSTALLATION TIPS**

- 1. Use overall shielded audio cable only. West Penn 452, Belden 8451 or equivalent. UNSHIELDED CABLE IS NOT SATISFACTORY FOR SOUND SYSTEMS.
- 2. When used in cashier's booth, microphone should be installed closer to the customer rather than the cash register, as the drawer sound may dominate the recording. It should be installed closest to the area that needs to be monitored and documented.
- 3. Avoid installing microphone near air vents, air conditioner, fans and other equipment that generate high sound and air pressure.
- 4. If using a VCR, it may have both intermittent and constant speed playback. See VCR's manual on how to select constant speed.
- 5. The APR-1 and microphone should have a barrier or solid wall between them in order to avoid audio feedback, especially when they are in close proximity to each other up to 25' (7.6 m).

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As an option to mounting Verifact® D Microphone, the low voltage mounting bracket (supplied) may be used for flush mounting to a ceiling or wall, instead of a single gang electrical box



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### **SPECIFICATIONS** (Microphone - Model D)

■ Type	Electret Condenser
Output	Line Level (0 dB 600Ω @ 1 kHZ
Frequency response	40 Hz to 15 kHz ± 1 dB
Current drain	10 mA
Supply voltage	12Vdc
Dimensions (face plate)	2¾"W x 4½"H

### **SPECIFICATIONS** (Base Station - APR-1)

0.78V
1W@8Ω
$600\Omega$ or higher
10ΚΩ
100 Hz to 10 kHz
8 to $600\Omega$
12 Vdc, 500 mA
8 1/4"L x 5 3/4"W x 1 3/8" H
1 lb 6 oz
3 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.

> MONITORING LOUROE

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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