



LOUROE ELECTRONICS®

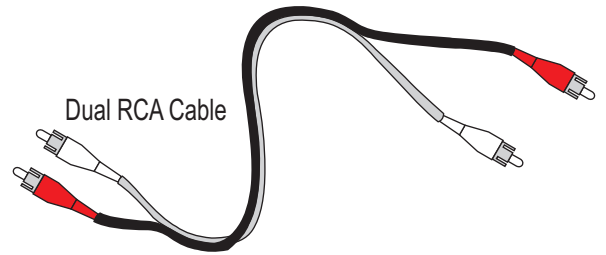
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AP-4-RM

4 ZONE RACK MOUNTED AUDIO BASE STATION INSTALLATION AND OPERATING INSTRUCTIONS



Model AP-4-RM
4 Zone Rack Mounted Audio Base Station



Dual RCA Cable



AD-1 Power Supply

DESCRIPTION

Models AP-4-RM is a non-alarming audio monitoring base stations mounted in a standard 19" rack for providing 4 audio zones. The unit has the same amount of audio outputs (RCA) as it does for microphone inputs. Model AP-4-RM will accommodate four Louroe Microphones and has four line level audio outputs. It contains a built-in speaker for producing live audio and audio playback from a DVR. In addition, it has a selectable RCA audio output for interfacing with a DVR with only one audio input, or with a VCR. Zone selection is by pushbutton. Contains a Mute switch that mutes the audio of the remote microphones from being heard at unit's speaker. All Louroe microphones are compatible with the AP-4-RM.

Contents	Description
AP-4-RM	UL listed 4 Zone Rack Mounted Audio Base Station. Used for listening to live audio from microphone, as well as audio playback from DVR's, VCR's or other audio devices.
AD-1	UL listed AC ADAPTER. Supplies 12 Vdc to APR-1 and Microphone.
Dual RCA Cable	RCA cable for connection to a DVR/VCR or other Audio devices that accept line level input (0dB @ 600Ω).

INSTALLATION AND OPERATING INSTRUCTIONS

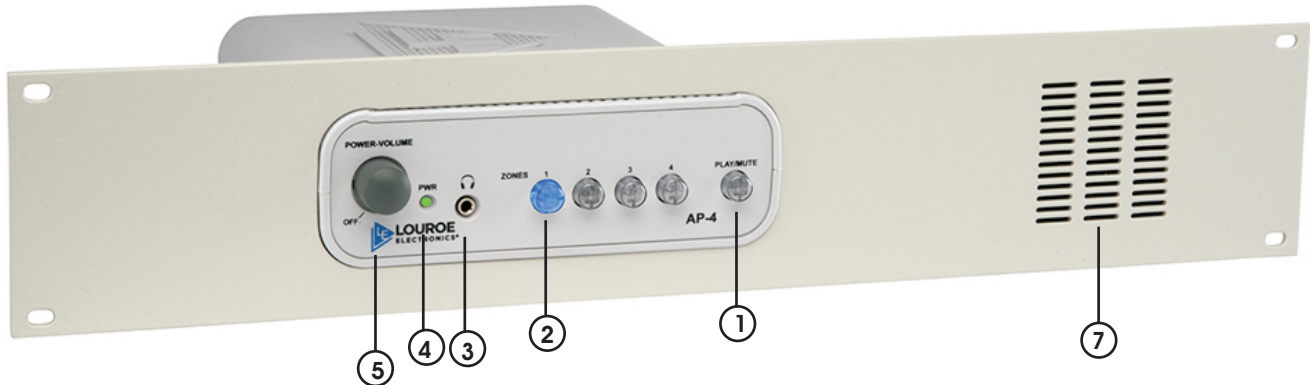


Fig. 1 Front of AP-4-RM

DESCRIPTION AND FUNCTION OF PARTS

- | | |
|-------------------------------------|---|
| <p>[1] - Play/Mute Switch</p> | Used when playing back audio from a recorder or mute the audio from the microphone. No audio is heard on the Speaker[7] when this switch is ON. |
| <p>[2] - Zone Selector Switches</p> | Select zone for monitoring. Press switch of desired zone to listen to live audio. Pressing more than one zone is possible when it is necessary to monitor more than one zone at a time, but audio may be difficult to understand if there is audio activity at several zones. Zone switches light blue when press indicating active zone. |
| <p>[3] - Headset Jack</p> | Used for private listening. Any stereo headset with 8 to 600Ω impedance maybe used. Mutes speaker output when use. |
| <p>[4] - Power Indicator</p> | Lights (green) when power is turned ON. |
| <p>[5] - Power-Volume Knob</p> | Rotating knob clockwise turns ON power to the unit as indicated by the Power Indicator[4] light. Rotating further clockwise increases the volume of the monitored audio as heard through the Monitor Speaker[7]. |

INSTALLATION AND OPERATING INSTRUCTIONS

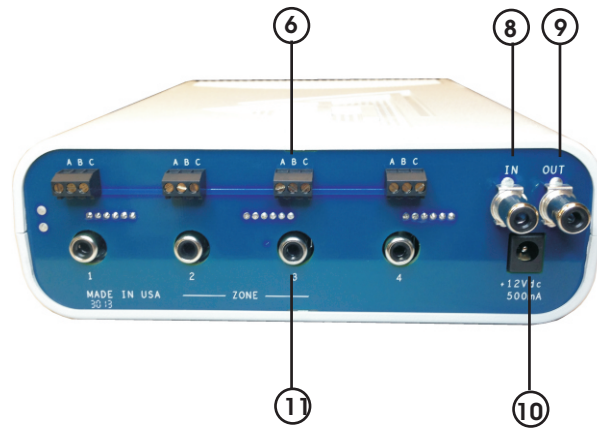


Fig. 2 Rear view of AP-4

DESCRIPTION AND FUNCTION OF PARTS

- | | |
|--------------------------------------|---|
| [6] - Mic Input 3-Pin Terminal Block | Connects to remote Louroe microphones. |
| [7] - Monitor Speaker | Provides live audio through the 3" built-in speaker. Muted when a headset is connected to Headset Jack[3]. Shown in previous page |
| [8] - Audio In Jack (RCA) | Receives audio playback from DVR/VCR, etc. and is broadcast through the built-in speaker. [7]. |
| [9] - Audio Out Jack (RCA) | Provides audio to DVR/VCR for recording or to other audio devices accepting line level input when any of the Zone Selector Switches[2] are activated or push in. The audio output to this jack will be the audio selected by the Zone Selector Switches[2]. |
| [10]- Power Jack | Accepts 12Vdc from external power supply (included) |
| [11] - Mic Output Jack | Used for connection to a DVR with multiple audio inputs or to a soundcard module for audio recording. May also be used for paralleling to a second Louroe audio base station. |

INSTALLATION AND OPERATING INSTRUCTIONS

MICROPHONE CONNECTIONS TO AP-4-RM

All Louroe Verifact® Microphones contain a 3-pin terminal block marked A, B, C. All Louroe base stations contain similar 3-pin terminal blocks marked A, B, C. Refer to interconnection diagram p 5. Using sample cable:

A = 12Vdc Power (red wire)
B = Audio Output (black wire)
C = Common Ground (bare wire)

- 1) Take one end of recommended cable to first microphone location and connect:
Red wire to terminal A (12Vdc)
Black wire to terminal B (Audio Output)
Bare wire to terminal C (Ground)
- 2) Run other end of cable to the AP-4-RM Base Station location and connect to the Mic Input 3-Pin Terminal Block[6] of the audio zone in which the remote microphone is assigned (example zone 1). Again connect Red wire to Pin A, Black wire to Pin B and Bare wire to Pin C.
- 3) Repeat the same procedure for the remaining microphones using the additional terminal blocks marked zone 2, zone 3, etc.

CONNECTING AP-4-RM TO A RECORDING DEVICE (DVR, ETC.)

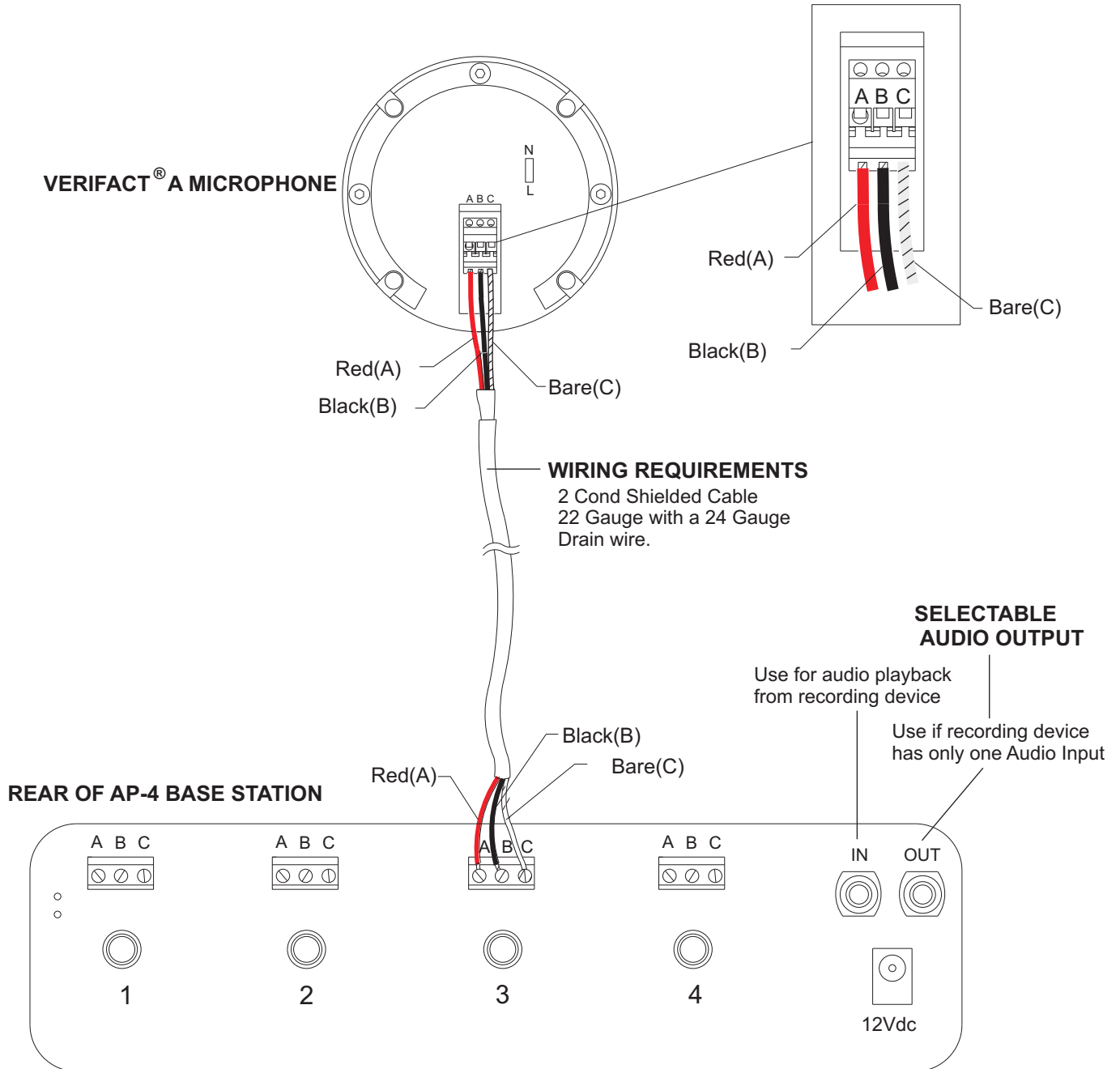
- A) If connecting to a DVR with one audio input:
- 1) Connect an RCA cable to the Audio Out jack [9] of AP-4-RM and connect other end to Audio In (or line in) of VCR/DVR
 - 2) To record a particular zone, press the Zone Selector Switch [2] located on front panel of base station for the audio zone to be recorded
 - 3) For audio playback, connect another RCA cable from Audio Out (or line out) of VCR/DVR to Audio In [8] of AP-4-RM.
 - 4) Press in the Mute/Playback button[1] of front panel
 - 5) Press the play or playback button on VCR/DVR to start audio playback. Playback will be broadcast through the base station's built-in Monitor Speaker[7]. As an alternate, playback may be channeled through a CCTV monitor with amplifier or through DVR's speaker system
- 2) If connecting to a DVR with multiple audio inputs or to a soundcard module:
AP-4-RM has 2 line level RCA Mic Output Jacks [11]
- 1) Connect RCA cables between the Mic Output Jacks [11] and Audio Inputs of DVR matching zone 1 to channel 1 of the DVR audio inputs.
 - 2) For audio playback from base station, press in the Play/Mute Switch[1] located on base station's front panel. Playback may also be channeled through other audio sources

APPLYING POWER TO THE AP-4-RM

A 12Vdc power supply is included with the above units. First connect the small end with the 90° plug to the above units Power Jack[10] and connect large end to a standard 120Vac outlet or power strip.

Maximum distance between AP-2-RM, etc. and Louroe microphones is 1,000 ft. (305m)

INTERCONNECTION DIAGRAM FOR VERIFACT® A MICROPHONE
AND AP-4-RM BASE STATION



OPERATION AND TEST

After microphones and power supply are connected, proceed as follows:

- 1) Turn on power to the unit by rotating the Power-Volume Knob[5] clockwise to “ON” position. The green LED [4] will illuminate, indicating power to the unit. Rotate Power-Volume Knob[5] further clockwise to increase the volume of monitored audio.
- 2) Press Zone Selector Switch[2] marked zone 1. Audio from zone 1 should be present at the Monitor Speaker[7]. The switch blue light should be ON indicating that zone is activated. If there is no audio, remove wires connected to Mic Input 3-Pin Terminal Block[6] for zone 1 at the rear of the unit. With a DC voltmeter, check that 12 Vdc is present at terminals “A” and “C”. If voltage is not present, unit has defective power supply. If voltage is present, check to assure that wires are connected properly to the right terminals. Otherwise microphone is defective. Call factory for assistance.
- 3) Repeat step 2 for the remainder of the zones.
- 4) When a recorder is connected to the unit, press Play/Mute Switch[1]. The Play/Mute Switch[1] will light. The audio from the remote microphones are muted. Press DVR playback switch to listen to recorded audio on the unit’s speaker. The Play/Mute Switch[1] must be depressed or in the “OUT” position to hear live audio again on the Monitor Speaker[7].

SPECIFICATIONS

■ Monitor power output	1W @ 8Ω
■ Audio output impedance	1KΩ
■ Audio input impedance	10kΩ
■ Freq. response	100 Hz to 10kHz
■ Headphone impedance	8 to 600Ω
■ Current Drain	200mA
■ Power input	12 Vdc, 500mA
■ Dimensions	19"L x 3 1/2"W x 8 5/8"D
■ Weight	2lb 13.5 oz
■ Shipping Weight	4 lbs

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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.