

# IF-1

## AUDIO INTERFACE ADAPTER

### INSTALLATION AND OPERATING INSTRUCTIONS

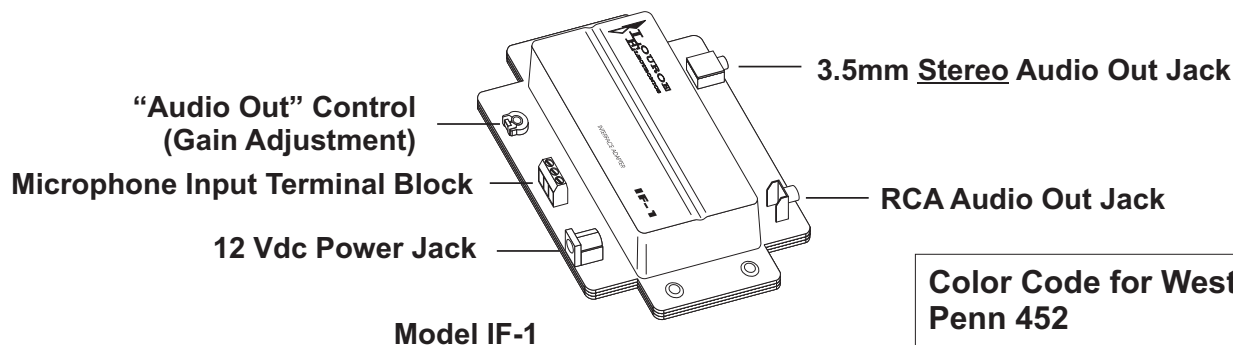


#### DESCRIPTION

The IF-1 Audio Interface Adapter serves as an interconnection device between a Louroe microphone and a DVR, computer sound card, IP Network camera, or Video server. The input side contains a terminal block to receive wiring from the microphone and a jack for 12Vdc power input. The output side contains two types of connections to accommodate most of recording devices audio inputs. The IF-1 also has gain adjust function to adjust the level of the audio output of the unit. A 12 Vdc power supply is included for providing power to the unit as well as the microphone. All Louroe line level microphone are compatible with the IF-1.

Contents	Description
IF-1	Audio interface adapter. Served as an audio interface between the Verifact microphone and IP camera or recorder.
AD-1	UL listed AC ADAPTER. Supplies 12 Vdc to IF-1 and Microphone.
Single RCA Cable	For connection to a DVR or other audio devices that has RCA type audio input.
3.5mm Stereo Cable	For connection to IP camera or sound card that has stereo type audio input jack.
RCA to 3.5 Mono Adapter	For connection to receiving audio equipment that has a 3.5mm mono audio input jack

# INSTALLATION AND OPERATING INSTRUCTIONS



**Color Code for West Penn 452**  
Red - 12Vdc  
Black - Audio Output  
Bare - Ground  
If using cable from other manufacturers, color code may vary.

## CONNECTIONS

### MICROPHONE TO INPUT SIDE OF IF-1

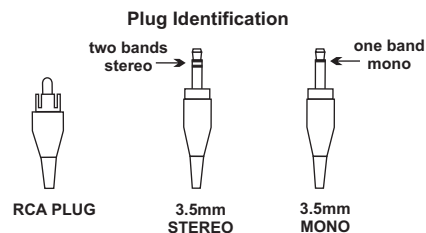
Wiring: 2 conductor Shielded 22 gauge with 24 gauge drain wire  
West Penn 452 or equivalent

All Louroe microphones contain a terminal block or terminal strip marked A, B, C.

- A = 12 Vdc power (+)
- B = Audio
- C = Ground (-)

If using recommended wiring:

- Connect red wire to terminal A of microphone
- Connect black wire to terminal B of microphone
- Connect bare wire to terminal C of microphone



Types of plugs used with applications in this instruction manual

### OUTPUT SIDE OF IF-1 TO AUDIO RECEIVER (DVR, IP Network Camera, etc.)

- (A) If audio receiver is a DVR or VCR that has RCA input, use the single RCA cable to connect RCA output of IF-1 to "Audio In" of DVR/VCR.
- (B) If the audio receiver (DVR, Soundcard, etc.) has a 3.5mm **stereo** input, use the 3.5mm stereo cable and connect to the 3.5mm stereo jack of the IF-1 before connecting to the "Audio In" or "Line In" of the DVR or soundcard. **NOTE: DO NOT connect to "Mic In" of soundcard.**
- © If audio receiver (IP Network camera, DVR, Video Server, etc.) has a 3.5mm **mono** input, connect the RCA to 3.5mm **mono** cable to the RCA audio out of IF-1 to the "Audio In" or "Line In" of IP Network camera, etc.

### APPLYING POWER TO IF-1

A 12 Vdc AC Adapter is included with the IF-1. First connect small plug into 12 Vdc power jack on input side of IF-1. Connect other end (power block) to standard 110V/120 Vac electronic outlet or power strip.


### "AUDIO OUT" CONTROL OF POTENTIOMETER

Located on the IF-1 input side (next to 3-pin microphone terminal block) is a potentiometer for audio gain adjustment. Occasionally, though rare, the microphone may overdrive (or underdrive) the audio signal into the IF-1. Should this occur, use a small screw driver and move arrow clockwise to increase gain. Move counterclockwise to lower gain. The potentiometer is positioned straight up at the factory.

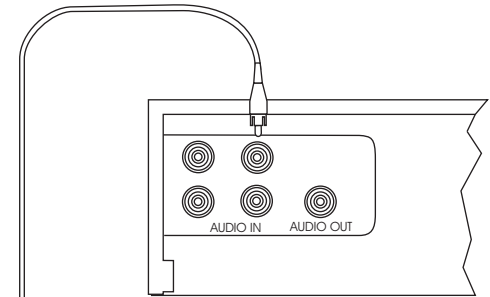
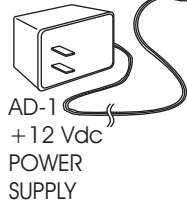
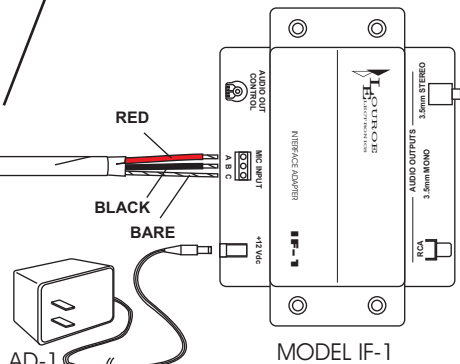
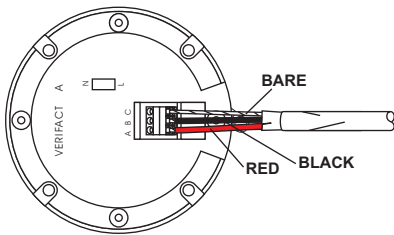
**INTERCONNECTION DIAGRAM  
BETWEEN  
A LOUROE MICROPHONE  
AND IF-1 INTERFACE ADAPTER  
FOR CONNECTION TO A DVR/VCR, ETC.  
WITH RCA INPUT**

**WIRING REQUIREMENTS**  
2 Conductor **shielded** cable, 22 gauge with a 24 gauge drain wire  
**NOTE:** Unshielded cable is not satisfactory for audio systems

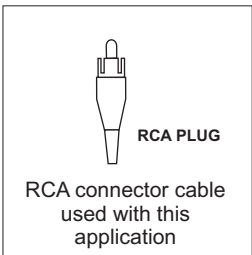
West Penn 452 or equivalent



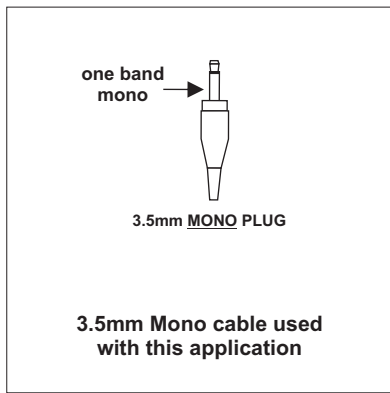
All Louroe microphones are compatible with the IF-1 VERIFACT®A MICROPHONE SHOWN



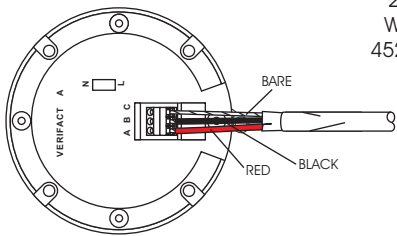
REAR PANEL OF DVR WITH RCA TYPE AUDIO INPUT



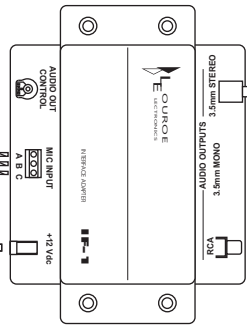
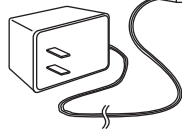
**INTERCONNECTION DIAGRAM  
BETWEEN  
A LOUROE MICROPHONE  
AND IF-1 INTERFACE ADAPTER  
FOR CONNECTION TO AN IP CAMERA , ETC.  
WITH 3.5 MONO INPUT**



VERIFACT® A MICROPHONE



2 CONDUCTOR SHIELDED 22 GAUGE WEST PENN 452 OR EQUIV.



RCA to 3.5mm mono cable

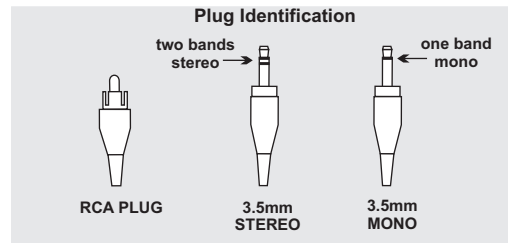
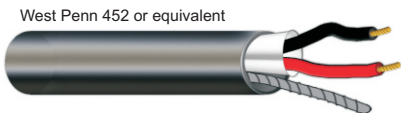
3.5mm mono plug adapter



**WIRING REQUIREMENTS**

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**NOTE:** Unshielded cable is not satisfactory for audio systems



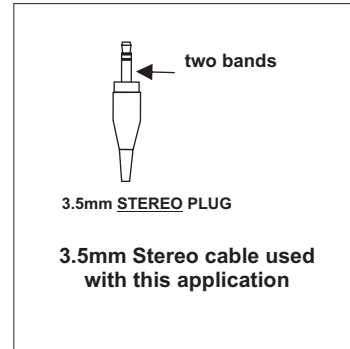
**INTERCONNECTION DIAGRAM  
BETWEEN  
A LOUROE MICROPHONE  
AND IF-1 INTERFACE ADAPTER  
FOR CONNECTION TO PC SOUND CARD DVR, ETC.  
WITH STEREO INPUT**

**WIRING REQUIREMENTS**

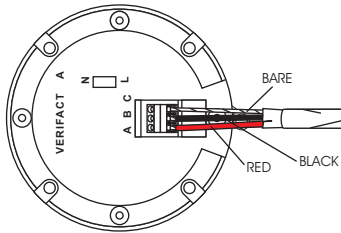
2 Conductor **shielded** cable, 22 gauge with a 24 gauge drain wire

**NOTE:** Unshielded cable is not satisfactory for audio systems

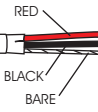
West Penn 452 or equivalent



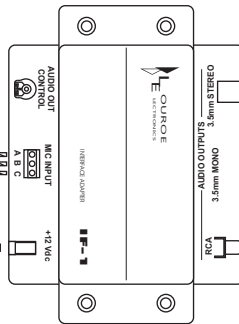
VERIFACT® A MICROPHONE



2 CONDUCTOR SHIELDED 22 GAUGE WEST PENN 452 OR EQUIV.



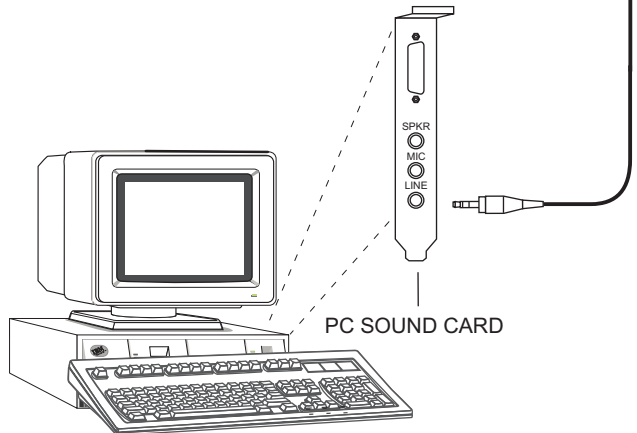
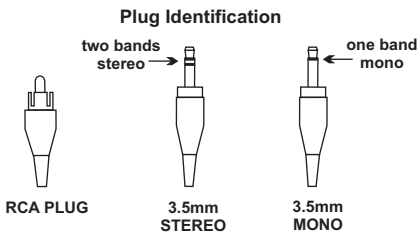
AD-1 +12 Vdc POWER SUPPLY



Louroe™ Model IF-1

3.5mm Stereo OUTPUT

3.5mm stereo cable



# NOTES

# INSTALLATION AND OPERATING INSTRUCTIONS

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## SPECIFICATIONS

■ Input Impedance	18k $\Omega$
■ Output Signal	Line Level (600 $\Omega$ @ 1kHz)
■ Audio Output Gain	+10dB
■ Power Supply	12 Vdc, 500mA
■ Dimensions	6 1/8"L x 4 5/8"W x 1 3/8"H
■ Weight	5.5 oz
■ Shipping Weight	1 lb

### 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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