

# ***Voice Path***

**Telephone Handset Audio Tap**



**User Guide**

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**JK Audio**

## ***Features***

### **Input from PC**

The cable marked input from PC accepts a line level signal from your computer sound card to send down the telephone line. This can be an audio CD playing in your computer's CD ROM drive, a conversation previously recorded from the VOICE PATH, or any other audio on your computer that would normally play through your computer speakers.

### **Output to PC**

The cable marked output to PC sends a mic level signal to your computer sound card's mic input. This signal will contain a mix of your voice (or other audio sent down the phone line) and the audio from the other end of the call. This mix ratio is not adjustable, it is a function of the telephone, not our product. As it turns out, this is a suitable mix ratio for most applications.

## Connection

Voice Path connects between the handset and the telephone base of your telephone. Follow these simple steps.....

1. Unplug the modular handset cord from your telephone base.
2. Using the black handset jumper cord that we have provided, connect the telephone base jack of VOICE PATH to the handset jack on the base of your telephone.
3. Plug your handset cord, and handset (or headset) into the handset jack on VOICE PATH.
4. Connect the From Phone cable to the mic input on your computer.
5. Connect the To Phone cable to the line input on your computer.



## **Connection (continued)**

### **Handset Type Switch**

The three position switch on the back of VOICE PATH selects the type of microphone that is in the handset of your telephone. When you push in the Playback button, VOICE PATH replaces the handset microphone signal with a circuit that must match the characteristics of the handset microphone. The A B C selector switch covers the main three microphone type.

| Switch Position | Handset Microphone Type |
|-----------------|-------------------------|
| A               | Electret                |
| B               | Dynamic                 |
| C               | Carbon                  |

**Note:** Not all telephones are built alike so we cannot guarantee VOICE PATH will work with any handset design out there. We designed the interface to work with most popular designs. If a conflict arises it will typically be on the line input side. If you attempt to send voice band signals down the line input jack and the distant party complains that the level is too loud or severely distorted (clipping), try to lower the transmit signal on your audio equipment. If this does not help, discontinue use immediately.

## **Operation**

The record/playback button selects which signal will be sent down the phone line; the handset microphone, or the input from PC cable.

### **Recording**

After connecting the Voice Path as described on page 3, recording a conversation is simple. Make certain the Record / Playback button is in the “Out” position, then start your recording from your software controls. The level of the audio sent into your PC can be adjusted from the back of the unit. Place a small screwdriver into the hole marked “Volume to PC” and turn clockwise (to raise level) or counter-clockwise (to lower level). This is a passive unit so the signal can not be raised above mic level (2800 ohms).

### **Playback**

Make certain the Record / Playback button is in the “In” position. Start the audio playing on your computer. Select the appropriate position on the A-B-C selector switch. The audio playing on your computer will be sent down the telephone line to the other end of the call.

When the record / playback button is out, you can use the handset to speak and listen as you normally would. The sound that you hear on the handset is always available on the output to PC cable.

## ***Operation (continued)***

With the button in, the handset microphone is disconnected and the “Input from PC” cable is active to send audio signals into the phone and down the line. You can also use the Record / Playback button to turn off the handset mic if you are listening to the “Output To PC” signal over a loudspeaker. This will prevent feedback between the handset microphone and loudspeaker. Or, you can always listen over the handset receiver.

To continue using your computer speakers while Voice Path is connected, use a “Y” adapter on your sound card line output jack. Connect the Voice Path “To Phone” cable to one jack on the adapter and your computer speakers to the other. You should then follow these steps to prevent your telephone conversations from playing over your speakers:

1. Double click on the volume control (speaker) icon near the clock on your Windows taskbar.
2. In the microphone section click the box labeled “Mute”.

This will prevent audio entering the microphone input on your soundcard from playing back over your computer speakers. Everything else will function as normal.

## **FAQ's**

**? The headset I am currently using goes through an amplifier before it connects to my telephone. Will the Voice Path work with this headset?**

**!** If the amplifier was designed to connect to any telephone's handset jack then yes. The Voice Path goes between the amplifier and your telephone base. Simply connect the Voice Path modular jack marked "Phone base" to the handset jack of your telephone base and the Voice Path modular jack marked "Handset / headset" to the amplifier's modular jack (that usually connects to the telephone handset jack). Leave your headset connected to the amplifier as usual and it should work fine.

**? Can I still use my computer speakers when the Voice Path is connected?**

**!** Yes. You will need a "Y" adapter for your sound card line output. This adapter should have 1 stereo mini plug (male) that splits into 2 stereo mini jacks (female). Plug the adapter into your sound card line output, plug your computer speakers into one of the adapter's mini jacks and the Voice Path "input from PC" cable into the other.

## FAQ's

**? I have a Voice Path connected between my telephone and computer. I can record conversations to my sound card but cannot send audio (from the PC) down the phone line. What should I do?**

**!** First make sure the Voice Path cable marked "Input from PC" is connected to the line output or speaker output of your sound card. This is usually where you connect your PC speakers. Next, make sure your computer volume (software) is at an acceptable level.

Now follow these steps:

- Complete a call to a friend who can listen and evaluate the signal. You will be able to hear their comments during the call.
- Set the gray pushbutton on the Voice Path to the in position. This disables the handset microphone and enables the audio input.
- Play an audio file on your computer. It should be long enough to complete this test (or select "loop playback" from your software).

Next, switch between the 3 handset type positions on the A-B-C selector switch on the back of the Voice Path. Select the position with the best audio quality (best does not necessarily mean loudest!). Then adjust the sound card output level using your software.



## **Specifications**

|               |                 |                  |
|---------------|-----------------|------------------|
| <b>Input:</b> | Connector:      | 3.5 mm TRS cable |
|               | Input Impedance | 10 k ohms        |
|               | Level           | 250 mV RMS       |
|               | Max input       | +12 dBm          |

|                |                  |                  |
|----------------|------------------|------------------|
| <b>Output:</b> | Connector:       | 3.5 mm TRS cable |
|                | Output Impedance | 2800 ohms        |
|                | Level            | 100 mV RMS       |
|                | Max Output       | -16 dBm          |

**Isolation from phone line**                      1500 Volts

### **Handset and Telephone connectors:**

Modular 4pin/4wire handset jacks

### **Handset Compatibility:**

Voice Path is designed to work with most carbon, dynamic and electret handset microphone types.

**Not for use with cellular telephones or telephones that have a keypad in the handset.**

## ***FCC Registration***

Your new JK Audio product has been registered with the Federal Communications Commission (FCC). This product complies with the standards in Part 68 of the FCC rules. The FCC requires us to provide the following information:

### **1. Connection and use with the nationwide telephone network**

The FCC requires that you connect this telephone equipment to the national telephone network through a FCC registered telephone.

This equipment may not be used with Party Line Service or Coin Telephone Lines.

### **2. Information for the telephone company**

Upon request from your local telephone company, you are required to provide the following information:

- a) The "line" to which you will connect the telephone equipment (that is, your telephone number), and
- b) The telephone equipment's FCC registration number. This can be found on the bottom of your telephone equipment.

### **3. Repair Instructions**

If it is determined that your telephone equipment is malfunctioning, the FCC requires that it not be used

## ***FCC Registration***

and that it be unplugged from the modular outlet until the problem has been corrected.

Repairs to this telephone equipment can only be made by the manufacturer or its authorized agents or by others who may be authorized by the FCC. For repair procedures, follow the instructions outlined under the warranty section of the manual.

### **4. Rights of the telephone company**

If telephone equipment is causing harm to the network, the telephone company may temporarily discontinue your telephone service. If possible, they will notify you before they interrupt service. If advanced notice is not practical, you will be notified as soon as possible. You will be given the opportunity to correct the problem, and you will be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your JK Audio product. If such changes are planned, you will be notified.

If this telephone equipment is to be used with a telephone that is leased or owned by another party, permission to connect this telephone equipment to their telephone must first be obtained.

## **Warranty**

The model Voice Path is covered by a 2 year warranty to be free from defective workmanship and materials. In the event that the Voice Path needs repair, you must call us to get an authorization, and then carefully pack and ship it to us. You will pay for shipping to us and we will pay for return back to you, UPS ground. No free repairs will be made if the defect was caused by misuse, weather conditions, or other cause, except for defective workmanship or materials. **THERE ARE NO EXPRESSED OR IMPLIED WARRANTIES WHICH EXTEND BEYOND THE WARRANTY HERE MADE.**

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JK Audio, Inc. 1311 E 6th Street, Sandwich, IL 60548 USA

Voice: (815) 786-2929 Toll Free: 800-JK-Audio

Fax: 815-786-8502

Info@jkaudio.com www.jkaudio.com

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