

# JK Audio

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## ComPack

Universal Telephone Audio Interface

Users Guide



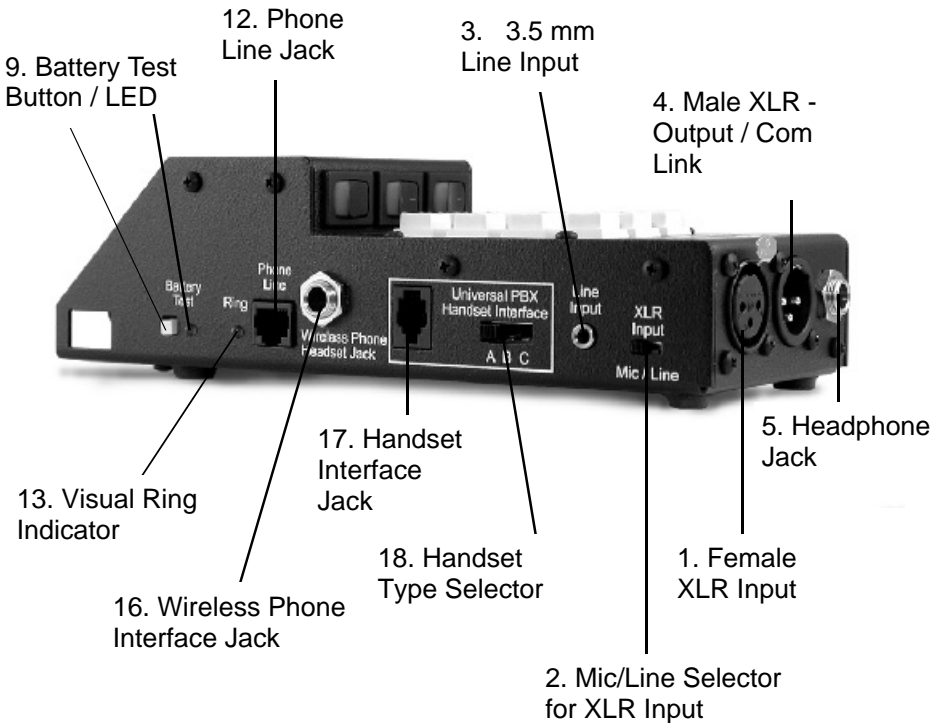
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***Telephone Interface Products***

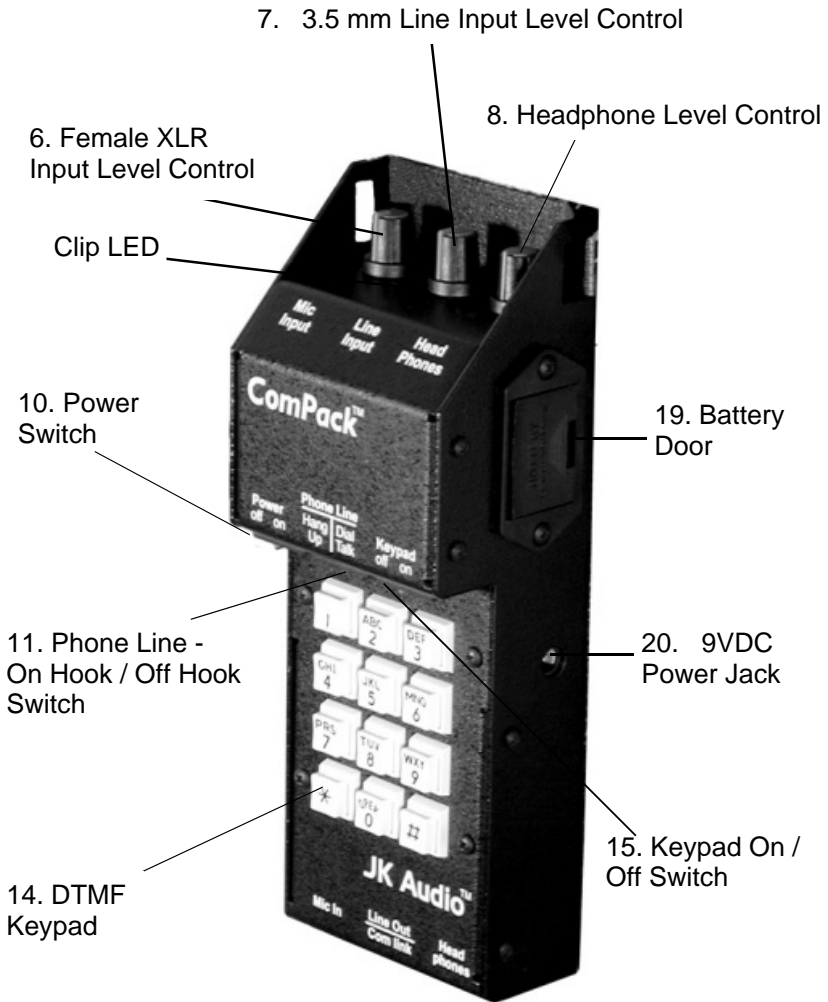
## Description

ComPack is a universal telephone audio interface that connects to cell phones, PBX phone systems, and plain analog phone lines. Perfect for remote broadcasts, IFB feeds, or interviews over any telephone connection.

ComPack also functions as a simple telecom interface for your beltpack intercom system. This no-frills feature allows you to connect the 3 pin XLR to your beltpack intercom group to provide a full duplex, always-on connection to any telephone network.



# Features



# Features

## 1. Female XLR Input

The female XLR input can be used for either the connection of a microphone or a line level audio signal. This input can be used at the same time as the 3.5 mm line input.

## 2. Mic / Line Selector Switch

The Mic / Line Selector Switch determines whether the female XLR is to be used as a mic level or line level input.

## 3. 3.5 mm Line Input

The 3.5 mm input is a mono, line level input. This input can be used at the same time as the XLR input.

## 4. Male XLR - Output / Com Link

The Male XLR output can be used in two ways. As a balanced, fixed level output or as a telecom link for your beltpack intercom system.

## 5. 1/4" Headphone Jack

The headphone output is a 1/4" 3 conductor jack. Both the tip and ring of this jack contain the same audio signal. Either mono or stereo headphones may be used.

## 6. Female XLR Input Level Control

The Mic Input volume control adjusts the level of audio from the female XLR input. Adjustment of this control determines the level of audio you send down the phone line from this input.\*

## 7. 3.5 mm line input level control

The Line Input volume control adjusts the level of audio from the 3.5 mm input. Adjustment of this control determines the level of audio you send down the phone line from this input.\*

*\*The FCC requires that a limiter be present in any device that connects to a phone line. The peak limiter within the Compack will help to control the audio level sent down the phone line so it does not exceed the maximum audio level specified by the FCC.*

## 8. Headphone Level Control

The headphone volume control adjusts the level of audio sent out the 1/4" headphone jack. Adjustment of this control will determine the level of audio you hear in your headphones.

### 9. Battery Test Button / LED

To test the battery, simply press the Battery Test button on the side of the unit. If the LED lights, the battery is still good. The unit may still function if the LED does not light, but there will be significant audio distortion and a loss of level as the battery continues to discharge. Under normal use you should get at least 20 hours of continuous use from one fresh 9 volt alkaline battery.

### 10. Power Switch

The power switch should be left in the off position any time the unit is not being used or battery drain will occur. The unit will retain a phone line connection if the power switch is turned off during a call.

### 11. Phone Line Switch

This switch acts as the switch-hook for the telephone line. The *Hang Up* position is the normal on-hook position when you are not using the line or you are waiting for a call. When you want to place a call, or when a call comes in, switch to the *Dial/Talk* position. When using the Handset or Wireless Interface, the switch should remain in the *Hang Up* position at all times.

### 12. Phone Line Jack

Use this jack to connect to standard analog telephone lines or a fax / modem adapter for analog cell phones. A 60" RJ-11 cable is provided with the unit. This jack should not be connected directly to digital PBX or ISDN phone systems.

### 13. Visual Ring Indicator

The Ring LED will flash when there is an incoming call from the phone line. This feature is disabled when ComPack is being used with the handset interface or the wireless phone interface.

### 14. DTMF Keypad

The telephone keypad is equipped for tone dialing only. You may use the keypad at anytime during a call but keep in mind that transmit audio is muted during a keypress. This keypad should only be used to dial calls when the unit is connected directly to an analog telephone line.

### 15. Keypad On / Off Switch

This switch disables the DTMF keypad to prevent tones from being blasted down the phone line during a broadcast. You should leave this switch in the off position when using the wireless phone or PBX handset interface.

## 16. Wireless / Cellular Telephones

ComPack comes equipped with a built in cellular telephone interface. This 1/4" wireless interface jack accepts a special 1/4" to 2.5 mm cable provided with the unit. This interface will work with any wireless phone that can accept third party headsets and earpiece headsets.

Some wireless telephones have the standard 2.5 mm jack while others have proprietary jacks. Adapters to convert the proprietary jack to the standard 2.5 mm jack are available for most wireless telephones through local electronic stores or their respective telephone dealers.

When using the wireless interface, it is important to keep your wireless telephone 12" - 24" away from the ComPack and any microphone or headphone cables. This will help prevent unwanted RF noise from entering the unit.

The wireless interface on the ComPack works very well with most cellular telephones. However, some wireless telephones generate *excessive* RF noise which can be heard as a "chattering" or "motor boat" sound. The noise from these particular telephones will be unacceptable for most broadcast applications.

## 17. Handset Interface

If you cannot get to an analog phone line or if the phone system is a digital or analog PBX, ISDN, or a key telephone system, You can use the built-in handset interface. Simply disconnect the handset from the coily cord and plug the cord into the PBX Handset Interface Jack. Dialing must be done with the existing telephone. Make sure to leave the telephone handset off hook or disconnection will result.

## 18. Handset Type Selector Switch

You will need to select the handset microphone type of the telephone that ComPack is connected to when using the PBX handset interface. Trial and error works faster than a chart of handset types, but this basic description may help.

Switch Position	Handset Microphone Type
A	Electret
B	Dynamic
C	Carbon

## Features

### 19. Battery Door

The easy change battery door can be opened by inserting a small object into the slot, such as a coin or fingernail, and lifting up and out. The battery should be removed if ComPack is not going to be used for extended periods of time.

### 20. 9 VDC Power Jack

ComPack is powered by either one 9 volt battery or the included AC adapter. The provided AC to DC adapter is a high quality, regulated power supply. When the power supply is connected to ComPack, battery power is bypassed. This AC adapter is for powering the unit only, it does NOT charge the battery. \*Make sure to use only the supplied AC adapter with ComPack. Using any other adapter can cause poor audio quality and/or damage the unit. If you need an additional AC adapter, contact the distributor you purchased ComPack from and ask for a JK Audio 9 volt power supply, JK Audio part # PS004.

## ComPack General Operation

1. Connect your microphone (and/or line input) and headphones to the input and output jacks on ComPack.
2. Connect the jack marked "phone line" to any standard analog telephone line  
**Or** disconnect the handset on an existing telephone and plug the coily cord into the "PBX handset interface" jack on ComPack  
**Or** using the supplied cable, connect the "wireless phone headset" jack to the 2.5 mm earpiece jack on your cellular phone.
3. Turn on the power switch, flip the phone line switch to dial/talk\*, flip the keypad switch to on\*, and dial your call.

*\*When using the wireless phone or PBX handset interface, the phone line switch should be left in the Hang Up position and the Keypad switch should be in the off position. All Dialing and answering of calls in these modes must be done from the telephone itself.*

## **ComPack Telecom / Intercom Link**

ComPack also functions as a simple “no-frills” telecom link for your beltpack intercom system. ComPack will provide bi-directional audio on pin 3 of the male XLR jack to any industry standard intercom beltpack system. ComPack does not provide power over this XLR jack nor does it require power from the loop. ComPack will not recognize a “call” signal generated by your intercom system or provide one.

1. Slide the Male XLR selector switch to the Com Link position. This switch is located within a small hole near the power jack. Accessing the switch can be done using a small blade screwdriver, or other such object, inserted into the opening. The left position (towards the XLR jacks) designates Line Output. The right position (towards the volume controls) designates Com Link. The factory default position of this switch is Line Output.
2. Connect your beltpack intercom XLR cable to the ComPack Com Link Male XLR jack.
3. Your intercom headset should remain plugged into your beltpack system, not directly into ComPack.

## **Specifications**

### **Inputs**

Female XLR	1000 ohms, mic/line switch -35 dB pad
3.5 mm	line level, 20k ohms, 250 mV, (-10 dBm) RMS

### **Outputs**

Male XLR	phone mix mode - balanced 600 ohms, 15 mV (-25 dBm) RMS
	intercom mode - bi-directional unbalanced
1/4" jack	8 ohms, 500 mW

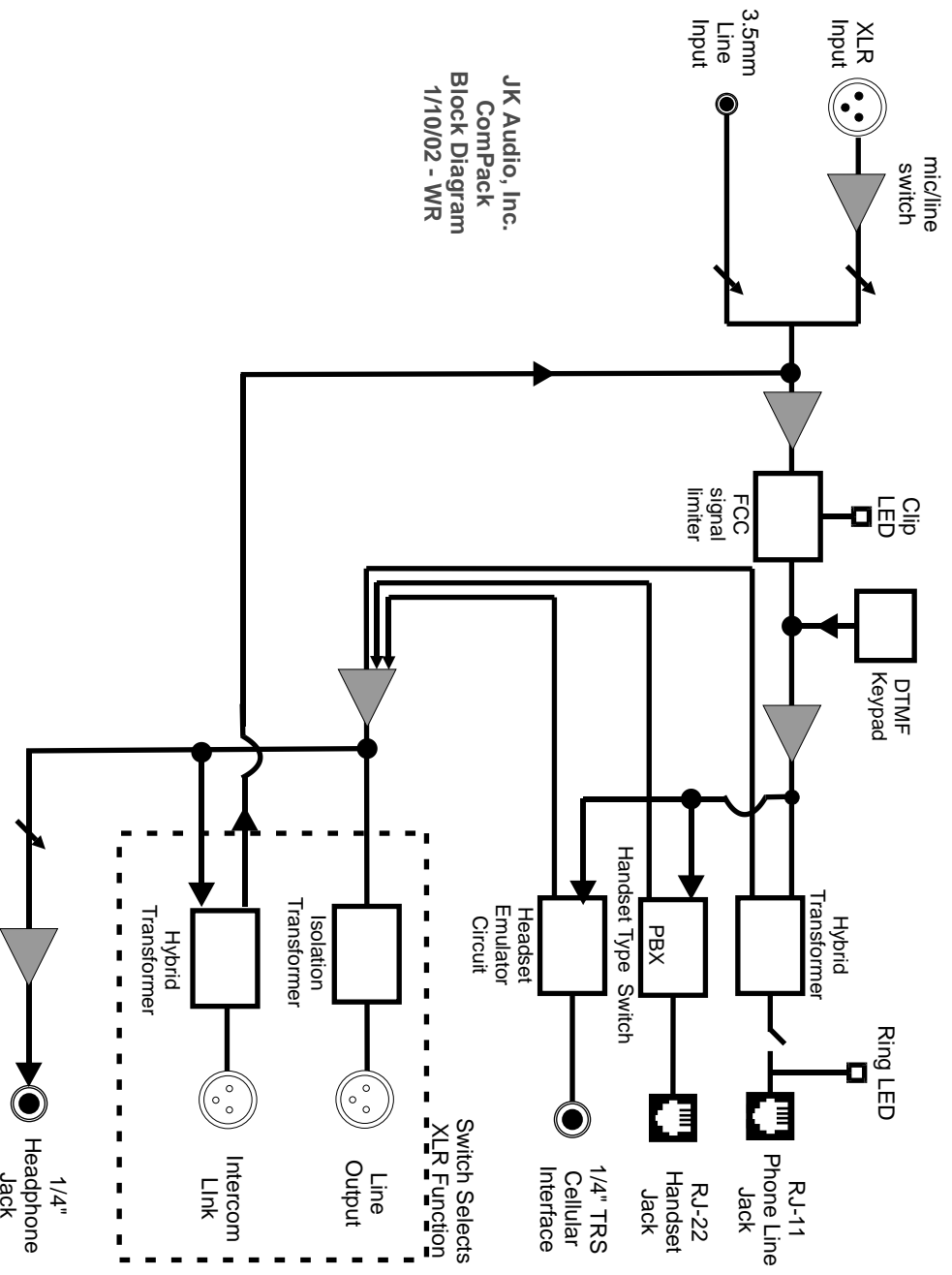
**Power** one 9 volt battery or AC power supply (included)

**Size** 8" x 3" x 2.2" (20.3 x 7.6 x 5.6 cm)

**Weight** 1.5 lbs.

Shoulder strap, wireless interface cable and one 9 volt battery included.

# Block Diagram



JK Audio, Inc.  
ComPack  
Block Diagram  
1/10/02 - W/R

# ***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.

## **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 USOC RJ-11C modular telephone jack.

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

This equipment is hearing aid compatible.

## **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, and,

c) the ringer equivalence number (REN) for this equipment. The REN is used to determine the quantity of devices which will be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed 5.0. To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the local telephone company.

## **3. Repair Instructions**

If it is determined that your telephone equipment is malfunctioning, the FCC requires that it not be used 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'll notify you before they interrupt service. If advanced notice isn't practical, you'll be notified as soon as possible. You'll be given the opportunity to correct the problem, and you'll 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'll be notified by your telephone company.

## ***FCC Part 15 Compliance***

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications not expressly approved by JK Audio can void the user's authority to operate the equipment.

## ***Warranty***

ComPack is covered by a 2 year warranty to be free from defective workmanship and materials. In the event that the ComPack 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 EXPRESS OR IMPLIED WARRANTIES WHICH EXTEND BEYOND THE WARRANTY HERE MADE.

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