

***TELIKOU* Intercom System**

**BK-501 Belt Pack**

**Instruction Manual**

© 2006 **TELIKOU Systems**  
All Rights Reserved

While **TELIKOU** makes every attempt to maintain the accuracy of the information contained in its product manuals, that information is subject to change without notice

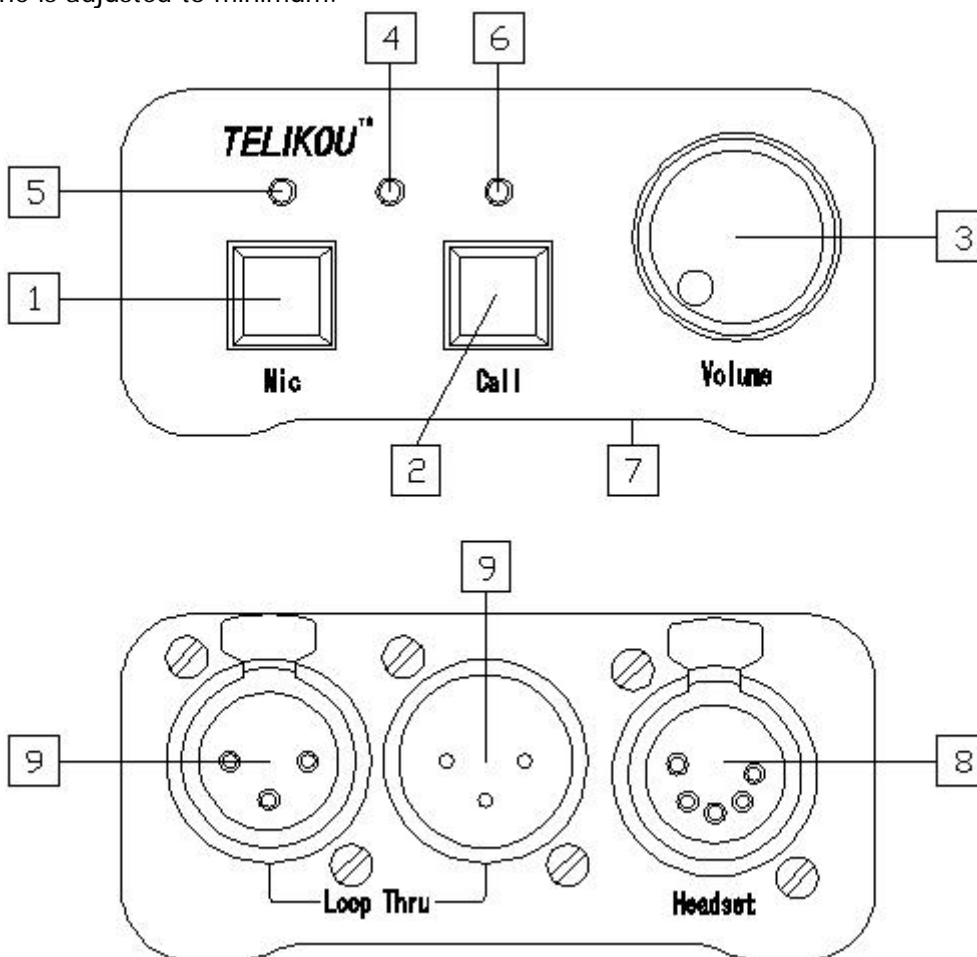
**● Introduction**

Thank you for choosing TELIKOU intercom product. BK-501 beltpack can work with any TELIKOU Intercom standard main station, and it is suitable for TV station, communication command center, outside broadcast van, show, project test field, and other applications where communication is required.

This system adopts wired connection, and has following features, free of external emission interference, stable and reliable performance, flexible configuration, full-duplex communication, clear and loud communication sound, easy operation, and strong noise resistance.

**● Quick start**

1. Use appropriate 3-pin XLR line cable connecting the beltpack to a intercom main station. If the beltpack is receiving the DC power, the Power LED will light up.
2. Turn volume control knob to the end anticlockwise, and plug in the headset.
3. Press Mic button and the green indicator above button will be ON, which indicating that the microphone is turned on.
4. Adjust the sidetone control (use a small screwdriver and insert it into the hole next to the belt-clip) and volume level, and ensure that the sound level for your own voice from the earphone is adjusted to minimum.



5. Press the Call button to send a talk request.
6. After the completion of talk, press the Mic button again, the indicator will be Off, and the microphone will be turned off.

**● Basic operation**

**1. Mic key**

If you want to talk, press this button, the Mic LED (5) light, that indicate the microphone is

turned on, and the sound from the microphone will be sent to the intercom line. This button controls an internal flip circuit. When it is pressed once, the circuit will be turned on, and the Mic LED indicator will be ON; when it is pressed again, the circuit will be turned off, and the Mic LED will be OFF. When the connection between BK-501 and any TELIKOU Intercom main station is established, the Remote-Mic-Kill button of the main station can turn off the microphone of the BK-501 remotely.

## **2. Call key**

Pressing down this button will send a call signal to the intercom system, and the LED indicator above it will be ON to indicate that the call function is activated.

## **3. Volume control**

This knob is used to control the level of audio signal received from the intercom line, and can be used to adjust the volume of earphone.

## **4. Power LED**

A green LED indicator. When BK-501 is powered, this light will be ON.

## **5. Mic LED**

A green LED indicator. When Mic switch (1) is turned on, this light will be ON.

## **6. Call LED**

A red LED indicator. When a call signal from the intercom system is received, this light will be ON, indicating that there has a talk request of some station, now, you should wear on the headset and prepare for the call.

## **7. Sidetone adjustment**

It is in the hole next to belt-clip on the backside of the unit, and can be used to adjust the sound level of your own voice in the earphone, aiming to decrease sound feedback and avoid squeal. When making adjustment, turn on the Mic key(1) and adjust volume to proper level, then make a sound against microphone, or make a sound via rubbing microphone with finger. At the same time, use a small screwdriver, insert it into the hole, and rotate it at clockwise and anticlockwise slowly, until the sound or rubbing sound is minimal.

## **8. Headset connector**

5-pin XLR female connector. Configuration pin outs:

- Pin 1--Head Mic common
- Pin 2--Head Mic hot
- Pin 3--Earphone common
- Pin 4--Earphone hot
- Pin 5--Null

## **9. Intercom cable connectors**

A pair of 3-pin XLR male and female connectors parallel connected at internal for loop through connection of the intercom station.

XLR-3 configuration pin outs:

- Pin 1--Common
- Pin 2--DC supply (15-30V)
- Pin 3--Audio signal

## **● Troubleshooting**

### **Problem: Listen level too high or too low**

Cause 1: More than one Terminal in the system or non Terminal

Solution 1: Check every channel, each channel must only have one Terminal.

**Problem: Microphone level too high or too low**

Cause 1: Mouth is far or close to the mouth

Solution 1: Adjust the distance between microphone and mouth

**Problem: System feedback (Acoustical)**

Cause 1: Listen level control at this station or a remote station is set too high

Solution 1: Adjust

Cause 2: Sidetone null control at this station or a remote station is not adjusted correctly

Solution 2: Adjust. Refer to the procedure in the Front Panel section of this manual.

Cause 3: Channel un-terminated.

Solution 3: Set the MS-800 termination switch to the ON position.

Cause 3: A headset cord is too long or jointing quality.

Solution 3: Check headset cord

**Problem: Can not turn on the Mic function**

Cause 1: The connection among TELIKOU main stations must go via Online connector on rear panel. The Online connector of this station connected to the Intercom Line connector of another station.

Solution 1: Check the connection of Online connector

● **Specifications**

**1. Microphone Amplifier(From Microphone to Line)**

Dynamic Headset Mic impedance: 200 ohm

Voltage Gain:  $44 \pm 3$ dB

Harmonic Distortion:  $< 1\%$ (1000Hz)

**2. Headphone Amplifier(From Line to Load)**

Load impedance: 50-600 ohm

Voltage Gain:  $31 \pm 3$ dB

Harmonic Distortion:  $< 2\%$ (1000Hz)

**3. Power Requirements**

24V DC, 60mA  $\pm$  10mA

Power Range: 15-30V DC

**4. Environment**

-10~55°C

**5. Dimension**

High: 105mm , Wide: 87mm , Deep: 48mm

**6. Compatibility**

The BK-501 is compatible with TELEX and Clear-Com Party-Line intercoms.