

***TELIKOU* Intercom System**

BK-501 Belt Pack

Instruction Manual

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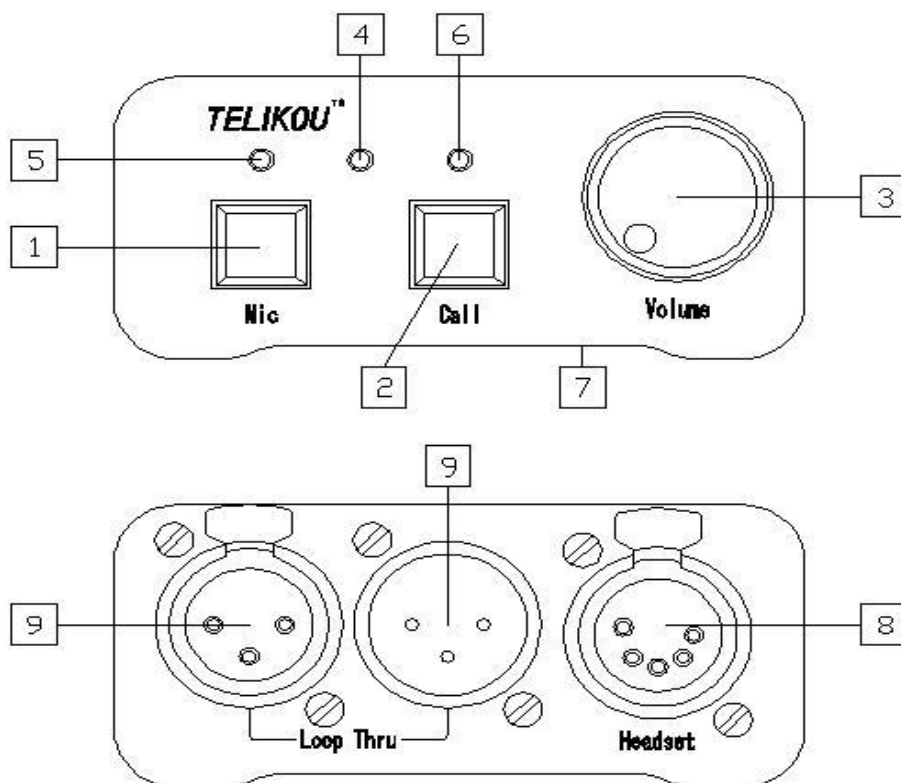
● Introduction

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. Connect the BK-501 belt pack to an intercom main station by XLR-3 cable. If belt pack receives DC power, the Power LED will light.
2. Turn volume control knob to the end by anticlockwise rotation, then plug in the headset.
3. Press 'Mic' button will light the green indicator which indicates the microphone is turned on.
4. Adjust sidetone (Sidetone adjustment is next to the belt-clip) and volume level; make sure the voice level which you heard from earphone is the minimum.
5. Press Call button to send a signal to main station.
6. When the communication is finished, press 'Mic' button again to turn off the microphone. The microphone indicator will off as well.



● **Basic operation**

1. Talk Button

1. Mic Button

Mic button is a momentary button. Holding the Mic button turns on the microphone of connected headset and the microphone indication LED.

2. Call Button

Pressing call button will send a call signal to the intercom system. And red LED indicator above will light.

3. Volume Control

This control is used to adjust the volume level which heard from connected headset.

4. Power LED

A green LED indicator indicates if BK-500 is powered.

5. Mic LED

A green LED indicator is controlled by Mic button..

6. Call LED

A red LED indicator indicates a call signal when received from the intercom system. It means a talk request from some station.

7. Headset connector

XLR-4M/5F connector

Pin out configuration as follow:

Pin 1--Head Microphone common

Pin 2--Head Microphone hot

Pin 3--Earphone common

Pin 4--Earphone hot

Pin 5--Null

8. Intercom cable connectors

A pair of internal parallel connected XLR-3 connectors is set for loop through connection of the intercom station.

Pin out configuration as follow:

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. Pre- Amplifier (From Microphone to Line)

Dynamic Headset Mic impedance: 200 ohm

Voltage Gain: $49\pm 3\text{dB}$

Bandwidth: 40Hz-8000Hz $\pm 2\text{dB}$

2. Headphone Amplifier (From Line to Load)

Load impedance: 50-600 ohm

Voltage Gain: $31 \pm 3\text{dB}$

Harmonic Distortion: $<0.1\%$ (1000Hz)

Bandwidth: 200Hz-8000Hz $\pm 2\text{dB}$

3. Others

SNR: $>72\text{dB}$

Current: $<120\text{mA}$

Power Range: 12-30V DC

Environment: $-10\sim 55^\circ\text{C}$

Dimension: 105mm x 87mm x 48mm