

***TELIKOU* Intercom System**

BK-500 Belt Pack

Instruction Manual

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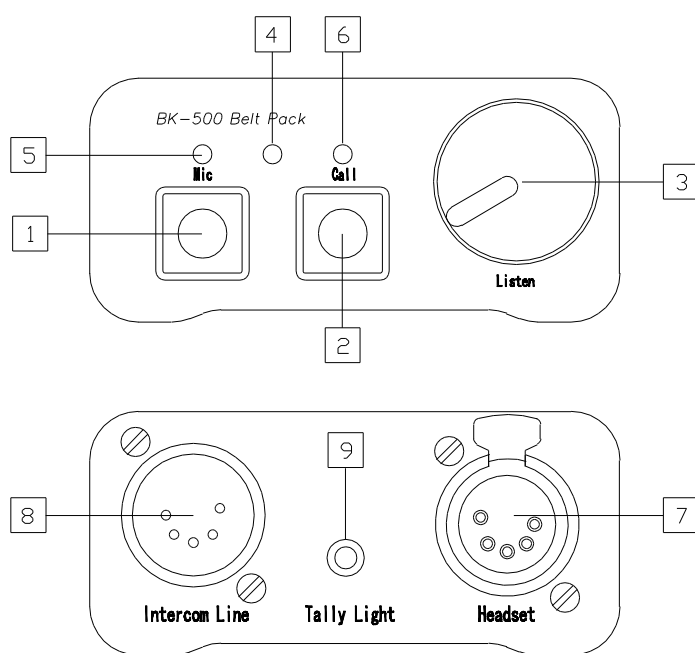
● Introduction

Thank you for choosing TELIKOU intercom product. BK-500 belt pack 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-500 belt pack to a intercom main station by XLR-5 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. Mic Button

Mic button turns on or off the microphone of connected headset and the microphone indication LED.

When the microphone is on, it collects the voice and sent it to the intercom system. Mic button is an electronic button. TELIKOU Intercom main station which is in the same intercom network could turn off this microphone remotely by RMK function.

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

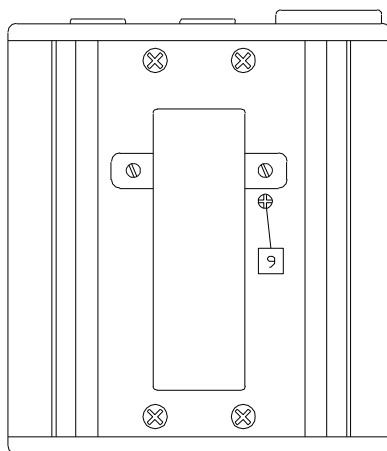
A XLR-5F receives audio signal and tally light signal from MS-500 main station.

Pin out configuration is as follow:

- Pin 1 --- Common (Shield)
- Pin 2 --- Power (+24 VDC)
- Pin 3 --- Audio
- Pin 4 --- Tally light drive signal output (Green)
- Pin 5 --- Tally light drive signal output (Red)

9. Tally Light

3.5mm Jack connects a wrist wear tally light.



10. Sidetone adjustment

The sidetone adjustment knob is in the hole which next to belt-clip at the backside of the belt pack. It is used to adjust the operator's voice level which heard in the earphone. Sidetone adjustment helps to reduce the sound feedback and avoid squeal.

When start to adjust sidetone, first turn on the headset microphone and adjust volume to proper level. Then make a voice against microphone. Meanwhile, use a small screwdriver insert into the hole, and rotate the sidetone adjustment knob by clockwise or anticlockwise slowly, until the voice heard from headset is minimal.

● 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 Microphone 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 Microphone impedance: 200 ohm

Voltage Gain: 44±3dB

Harmonic Distortion :< 1% (1000Hz)

2. Headphone Amplifier (From Line to Load)

Load impedance: 50-600 ohm

Voltage Gain: 31±3dB

Harmonic Distortion :< 2% (1000Hz)

3. Power Requirements

24V DC, 60mA±10mA

Power Range: 15-30V DC

4. Environment

-10~55°C

5. Dimension

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