TELIKOU   Intercom System

BK-201 Belt Pack

Instruction Manual

● **Introduction**

Thank you for choosing TELIKOU intercom product. BK-201 two channel belt pack is TELIKOU newly designed belt pack with plastic case. It is compatible with RTS type two channel belt pack.

This belt pack adopts wired connection. It has stable and reliable performance, flexible configuration, full-duplex communication, clear and loud communication sound, easy operation, and strong noise resistance.
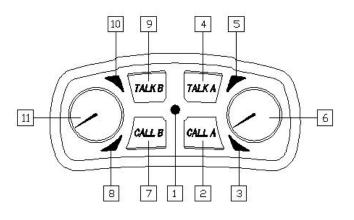
● **Quick start**

1. Connect BK-201 belt pack to RTS type intercom main station or belt pack by XLR-3 cable. If belt pack receives DC power, the red Power LED will light.
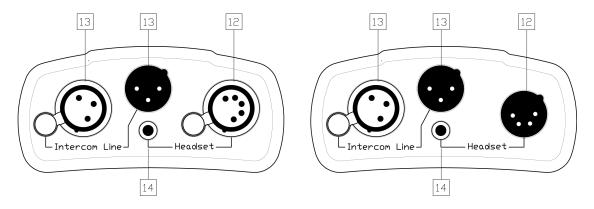
2. Turn volume control knob to the end by anticlockwise rotation, then plug in the headset.

3. Adjust sidetone properly for Channel A and B.

4. Press 'CALL' button send a call signal to main station or other belt pack.

5. After communication is finished, click 'TALK' button to turn off the microphone.

● **Basic operation**

1. Power LED

A Red LED will light if BK-201 is powered.

2. A Channel CALL Button

Pressing the call button send a call signal to Channel A. The red CALL LED will also light to indicator call signals.

3. A Channel Call LED

A red LED indicates a call signal is sent or received.

4. A Channel TALK Button

Pressing the talk button connects the headset microphone with Channel A.

The Talk LED will light when the talk function is active.

The TALK button may be activated in either of two ways:

Momentary Mode: Hold the TALK button, then speak into the microphone. The green talk LED will remain lit while the TALK button is held. Release the TALK button when finished talking. The talk LED will turn off.

Latching Mode for Hands-free Conversation: Tap the TALK button (do not press and hold). The green talk LED will turn on and remain on. When finished talking, tap the TALK button again. The talk LED will turn off.

5. A Channel TALK LED

A green LED indicator is controlled by TALK button..

6. A Channel Volume Control

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

7. B Channel CALL Button

Pressing the call button send a call signal to Channel A. The red CALL LED will also light to indicator call signals.

8. B Channel Call LED

A red LED indicates a call signal is sent or received.

9. B Channel TALK Button

Pressing the talk button connects the headset microphone with Channel B.

The Talk LED will light when the talk function is active.

The TALK button may be activated in either of two ways:

Momentary Mode: Hold the TALK button, then speak into the microphone. The green talk LED will remain lit while the TALK button is held. Release the TALK button when finished talking. The talk LED will turn off.

Latching Mode for Hands-free Conversation: Tap the TALK button (do not press and hold). The green talk LED will turn on and remain on. When finished talking, tap the TALK button again. The talk LED will turn off.

10. B Channel TALK LED

A green LED indicator is controlled by TALK button..

11. B Channel Volume Control

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

Rear Panel

12. Headset connector

XLR-4M / 5F / 3.5mm 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

13. 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:
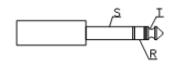
> Pin 1 -- Common for Channel and DC
>
> Pin 2 -- 15-30VDC and Audio Signal for Channel A
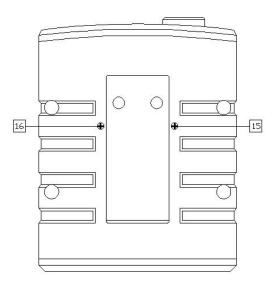>
> Pin 3 -- 15-30VDC and Audio signal for Channel B

14. 3.5mm Headset Connector

3.5mm jack headset connector.

Pin out configuration as follow:

> T (Tip)   -- Microphone Hot
> R (Ring)   -- Headset Hot
> S (Sleeve)   -- Common

15. A Channel Sidetone adjustment

16. B Channel Sidetone adjustment

A Channel Sidetone adjustment is placed at right side of belt clip.

B Channel Sidetone adjustment is placed at right side of belt clip.

Sidetone controls the level of one's own voice in their headset.

Sidetone adjustment helps to reduce the sound feedback and avoid squeal.

The step for sidetone adjustment:

1. Turn off the Talk button for Channel A and B.

2. Turn on the Talk Button for channel which you want to adjust sidetone only.

3. Adjust volume to proper level.

4. 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.

5. Turn off the talk button.

● **Troubleshooting**

Problem: Listen level is 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 has one Terminal.

Problem: System feedback (Acoustical)

Cause 1: Listen level control on main station is too high

Solution 1: Adjust the listen level on main station

Cause 2: Sidetone null control on belt pack or main station is not adjusted properly

Solution 2: Adjust the belt pack or main station sidetone.

Refer to the section 9 in the manual.

Cause 3: Main station is not terminated.

Solution 3: Set the termination switch on main station.

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

Solution 3: Check headset cord

● **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