

***TELIKOU* Intercom System**

**MDS-240 Two Channel
Wireless Main Station**

Instruction Manual

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I. Introduction

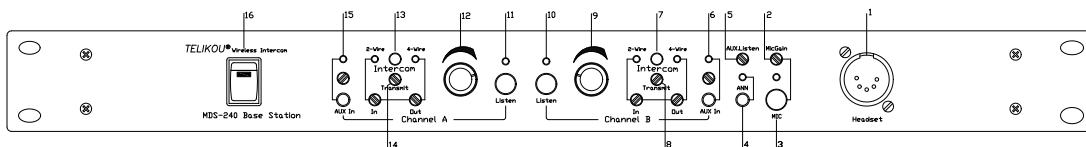
Thank you for choosing TELIKOU intercom product. MDS-240 two channel digital wireless intercom main station is suitable for television station, communication center, UB truck, live performance and any other environment which requires wireless communication. We recommend you read through this manual to better understand the functions of MDS-240.

MDS-240 running on 2.4G free of license frequency. MDS-240 has two independent wireless channels. Each channel can carry four wireless belt pack.

II. Characteristics

- 2.4G Frequency
- Digital full duplex
- Two independent Channel control
- Digital echo cancellation and Digital Squelch
- frequency hopping
- Supports belt pack group working mode

III. Basic operations



Front Panel

1. Headset connector

5-pin XLR Male

The wiring of headset is as follow:

- Pin 1 -- Mic. -
- Pin 2 -- Mic. +
- Pin 3 -- Earphone -

Pin 4 -- Earphone +

Pin 5 -- Ground

2. Mic Gain

It is used to adjust headset microphone gain to achieve proper microphone output level.

3. Microphone Button (Mic)

Press this button activates the headset microphone.

4. Announcement Button (ANN)

When this button is pressed down, microphone signal is sent to ANN. Out connector which is at rear panel.

5. AUX Listen Level Control

Used to adjust the AUX audio level which heard from headset.

6. Channel B Aux. Audio Control

Press button decides if Aux audio from AUX IN connector at rear panel is sent to Channel B.

Adjusting knob can adjust the Aux audio level which heard from belt pack at Channel B.

7. Channel B Intercom Audio Control

There are 2-wire and 4-wire connectors at rear panel for channel B. This switcher selects which connector is going to be used. LED light above indicates which connector is selected.

Adjusting knob is used to adjust Input and Output audio level of 2-wire / 4-wire connector for Channel B.

8. Channel B Transmit Audio Level

This knob adjusts the audio level which Channel B belt pack heard from 2-wire / 4-wire connector.

9. Channel B Listen Level Control

This knob adjusts the audio level which MDS-240 headset heard from Channel B Belt pack.

10. Channel B Listen Control

MDS-240 main station only monitoring the Channel B if this control is turned on.

Meanwhile turn on the 'Mic button', MDS-240 can talk with Channel B full duplex.

Turn on this control also lights the indication LED.

11. Channel A Listen Control

MDS-240 main station only monitoring the Channel A if this control is turned on. Meanwhile turn on the 'Mic button', MDS-240 can talk with Channel A full duplex. Turn on this control also lights the indication LED.

12. Channel A Listen Level Control

This knob adjusts the audio level which MDS-240 headset heard from Channel A Belt pack.

13. Channel A Intercom Audio Control

There are 2-wire and 4-wire connectors at rear panel for Channel A. This switcher selects which connector is going to be used. LED light above indicates which connector is selected. Adjusting knob is used to adjust Input and Output audio level of 2-wire / 4-wire connector for Channel A.

14. Channel A Transmit Audio Level

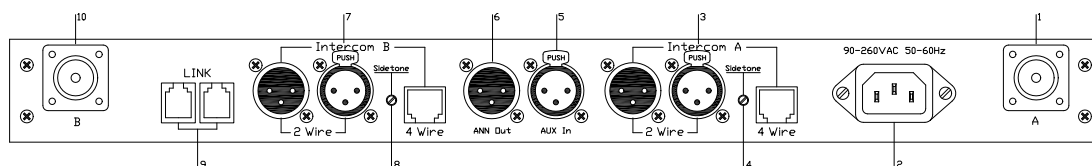
This knob adjusts the audio level which Channel A belt pack heard from 2-wire / 4-wire connector.

15. Channel A Aux. Audio Control

Press button decides if Aux audio from AUX IN connector at rear panel is sent to Channel A. Adjusting knob can adjust the Aux audio level which heard from belt pack at Channel A.

16. Power LED

This green LED constantly lights on when power supply working properly. If MDS-240 has any circuit short problem or over loaded (carrying too much 2-wire devices), it will keep on flashing until the problem has been solved.



1. Channel A Antenna

N Type 2.4G antenna

2. AC Power Connection

Input 95V-260V, 50-60Hz AC, and the power consumption is less than 35VA.

3. Channel A Wired Intercom Connector

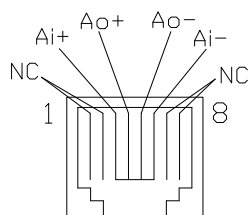
2-Wire Connector. A pair of XLR-3

Pin 1: Common

Pin 2: 24VDC

Pin 3: Audio Signal

4-Wire Connector. RJ-45 connector



4. A Channel Sidetone

Adjust this knob to get min sidetone after connect with 2-wire devices.

5. Aux In Connector

XLR-3F connector, Balanced input.

Pin 1: Common;

Pin 2: Audio -;

Pin 3: Audio +;

6. Ann Out Connector

XLR-3M connector, Balanced output.

Pin 1: Common;

Pin 2: Audio -;

Pin 3: Audio +;

7. Channel B Wired Intercom Connector

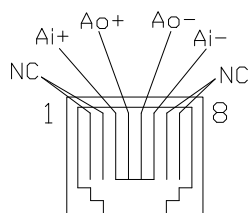
2-Wire Connector. A pair of XLR-3

Pin 1: Common

Pin 2: 24VDC

Pin 3: Audio Signal

4-Wire Connector. RJ-45 connector



8. Channel B Sidetone

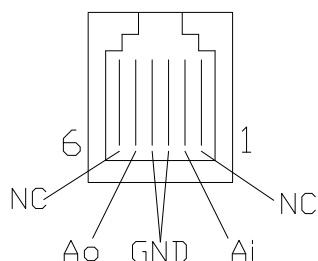
Adjust this knob to get min sidetone after connect with 2-wire devices.

9. Link

A pair of RJ-11 connectors. More than one set MDS-240 main stations are connected when working together.

Link connectors make all the stations' GND are connected.

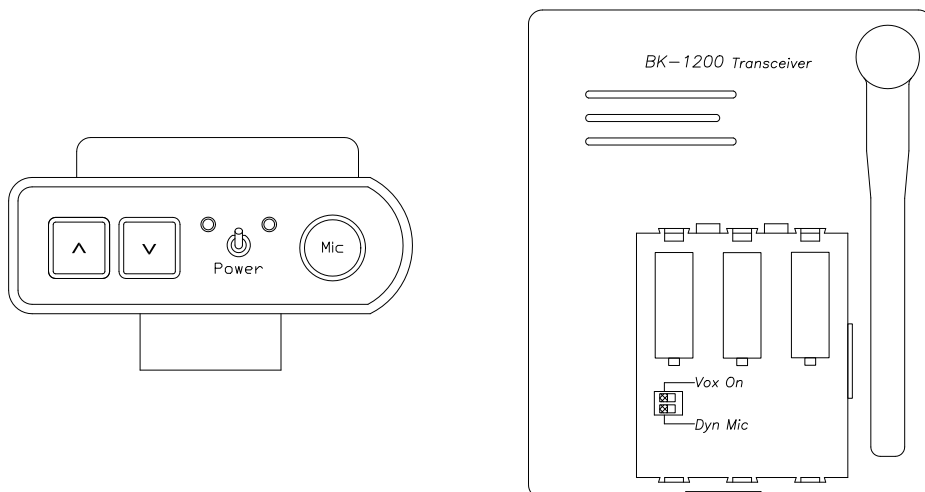
One station's Ao (audio output) connects to another station's Ai (audio input).



10. Channel B Antenna

N Type 2.4G antenna

IV. Belt Pack



MIC	Microphone Control Button
▲/▼	Volume Control
POWER	Power Switch
Low Battery & Code LED	Dual Color LED
MIC LED	Microphone status indicator
Vox	Null
Dyn	Microphone type selector
	On: Dynamic
	Off: Electret
Headset Connector	Pin1, Pin2: Microphone;
	Pin3, Pin4: Earphone;
	Pin5: Ground

V. Code Matching

1. Code Matching with Main Station

1. MDS-240 main station must enter code matching status first.

Hold 'AUX In' button and turn on the station. Channel LED indicator flashes RED means MDS-240 has entered code matching status.

2. Hold 'VOL-' button then turn on the power for belt pack. When power LED on belt pack flashes slowly, release the 'VOL-' button.
3. System does the code matching automatically. Power LED flashes fast, then lights constantly. It means code matching has finished.
4. Repeat step 2 and 3 for the rest belt pack.

2. Belt Pack Working Group

MDS-240 belt pack can work alone without main station.

1. Select one belt pack as main station.
2. Hold 'VOL+' button then turn on the power for this belt pack.
3. When Power LED flashes slowly. Release the 'VOL+' button. This belt pack has set as main station.
4. Select another belt pack.
5. Hold 'VOL-' button then turn on the belt pack power. When power LED flashes slow, release the 'VOL-' button.
6. System does the code matching automatically. Power LED flashes fast, then light constantly means code matching has finished.
7. Repeat step 3 and 4 for rest belt pack.
8. Restart all the belt pack.

Note: After finishing Code Matching, Main station and Belt Pack have to be restart.

VI. Technical Specification

Working Frequency:

2.4G (433M / 868M / 915MHz are optional)

MAX Transmit Power:

20dBm

Belt Pack Battery:

3 x AA size battery

Belt Pack Working Current:

TX: max 130mA RX: max 50mA

Main Station Power:

AC 95-260V, 50-60Hz, <35VA

DIMENSION:

19" (W) x1.75" (H) x9.48" (D), 482mm x 44.5mm x 241mm

WEIGHT:

2.6kg