

***TELIKOU* Intercom System**

**WS-4A Two-Channel 4-Wire Speaker Station**

**Instruction Manual**

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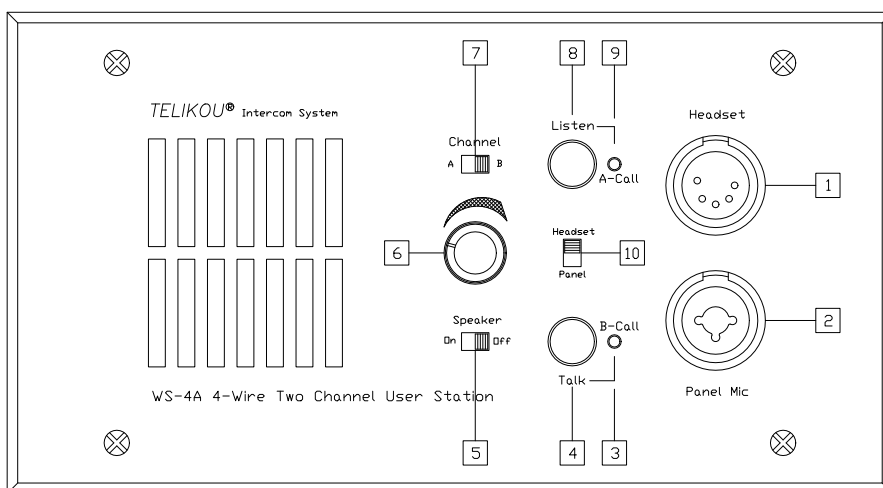
## I. Introduction

Thank you for choosing TELIKOU intercom product. The WS-4A Two-channel 4-Wire recessed speaker station suitable for the situation which needs the equipment mounted in the wall.

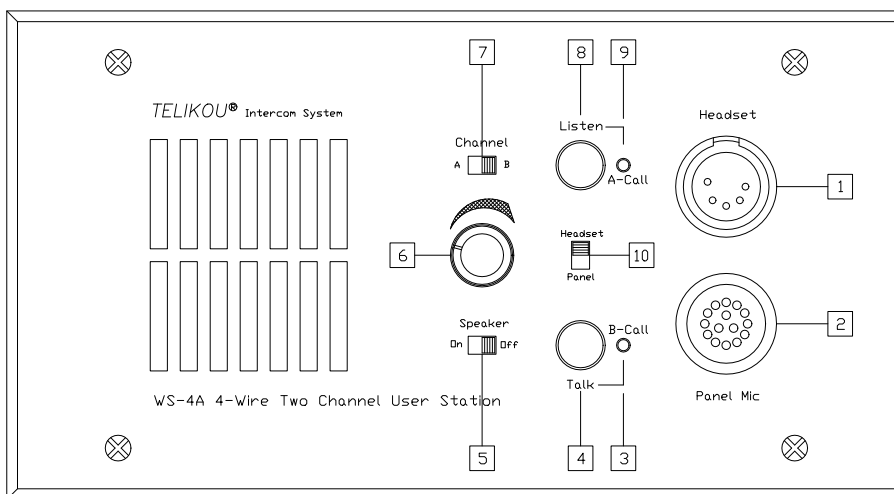
This system adopts wired connection, and has following features, free of external emission interference, stable and reliable performance, flexible configuration, full-duplex communication, clear and loud communication sound, easy operation, and strong noise resistance.

## II. Basic operations

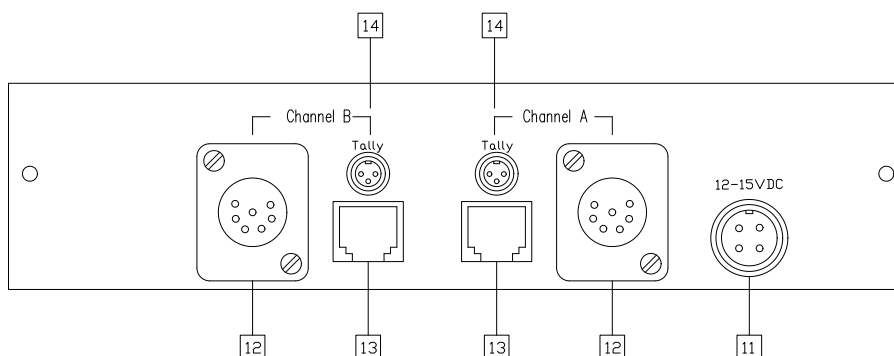
### WS-4A(G)Front Panel



### WS-4A(P)Front Panel



## WS-4A Rear Panel



### 1. Headset connector

4-pin XLR Male or 5-pin XLR female connector

EARPHONE: Dynamic 50-2000 ohm

MICROPHONE: Dynamic 100-600 ohm

The wiring of headset is as follows:

- Pin 1--Mic common
- Pin 2--Mic hot
- Pin 3--headphone common
- Pin 4--headphone hot
- Pin 5—Null

### 2. Panel Mic Connector

WS-4A(G) uses a double-purpose connector which supports XLR plug or 1/4inch plug unbalanced microphone.

The wiring of 3-pin XLR microphone is as follows:

- Pin 1 -- Mic common
- Pin 2 -- Mic hot
- Pin 3 -- Null

WS-4A(P) uses an internal microphone.

### 3. Talk Light and B Channel Call Light

This LED lights Green when Talk button is pushed ON.

This LED lights Red when Pin7 of Channel B intercom cable receives a high level.

#### **4. Talk Button (Talk)**

- PTT: Hold the button, when finish talking, release the button.
- Latching: Single click (<200ms) talk button will latch the talk button.  
Press again the talk button, will release the talk button.

#### **5. Speaker Switch**

The Speaker Switch turns the front panel speaker on or off.

#### **6. Listen Level Control**

This control adjust the audio level which heard from headset and speaker.

#### **7. Channel Select Switch**

WS-4A allows two different 4-wire system connected with station.

This switch selects which external system is using.

#### **8. Listen Button**

- PTT: Hold the button and listen, then release the button.
- Latching: Single click (<200ms) talk button will latch the listen button.  
Press again the listen button, will release the listen button.

#### **9. Talk Light and A Channel Call Light**

This LED lights Green when Talk button is pushed ON.

This LED lights Red when Pin7 of Channel A intercom cable receives a high level.

#### **10. Mic Select Switch**

Set the Mic select switch to select whether the panel microphone or the headset microphone is active.

#### **11. Power Connector**

4-pin aviator socket

- Pin 1 --- Ground
- Pin 2 --- Null
- Pin 3 --- Null
- Pin 4 --- Power Output (12VDC)

## **12. Intercom Line connector**

XLR-7M

Pin 1 --- Audio Output -

Pin 2 --- Audio Output +

Pin 3 --- Ground

Pin 4 --- Power Output (12VDC)

Pin 5 --- Audio Input -

Pin 6 --- Audio Input+

Pin 7 --- 5V Tally drive signal, or Call signal Input

## **13. Intercom Line connector**

RJ-45, Pin 1-7 is parallel with XLR-7M connector

Pin 1 --- Audio Output -

Pin 2 --- Audio Output +

Pin 3 --- Ground

Pin 4 --- Power Output (12VDC)

Pin 5 --- Audio Input -

Pin 6 --- Audio Input+

Pin 7 --- 5V Tally drive signal, or Call signal Input

Pin 8 --- 5V Tally drive signal

## **14. Tally Connector**

Clockwise along anchor point.

Pin 1 --- Ground

Pin 2 --- Green Light

Pin 3 --- Red Light

## **III. Installation and cable**

WS-4A supplies wall mount case and desktop case.

Front panel size: (W)210mm x (H)114mm x (D)3.5mm

A hole of size 210mm wide, 114mm high and 54mm deep is needed for the installation of WS-4A. Four 5mm fix holes are set evenly. The distance between any two holes is 144mm on width direction and 92mm on height direction.

## **VI. Technical Specification**

### **BANDWIDTH:**

300Hz-4000Hz

**EARPHONE:**

Dynamic 50-2000 ohm

**MICROPHONE:**

Dynamic 100-600 ohm

**POWER SUPPLY:**

12VDC, <0.5A

**ENVIRONMENTAL:**

0° - 70°C (32°-158°F)

**DIMENSION:**

8.27" (W) x4.49" (H) x2.13" (D), 210mm x 114mm x 54mm

**WEIGHT:**

0.56kg