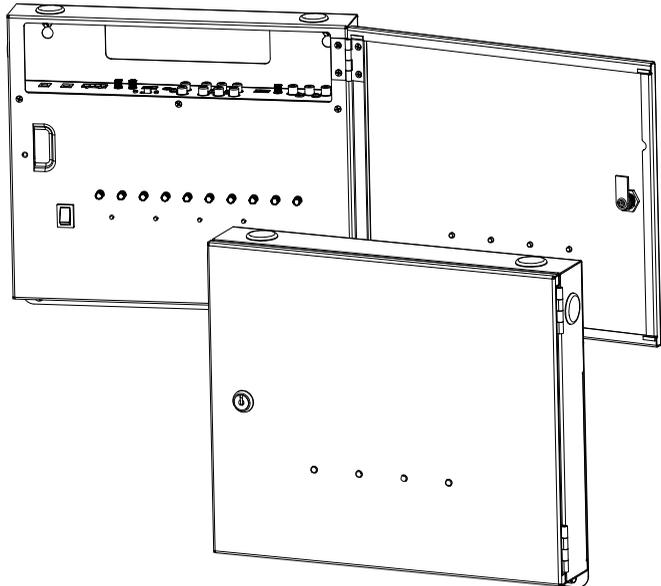


# CHIAYO

## Operation manual

### IRX2

Infrared Wall-Mount Receiver Amplifier

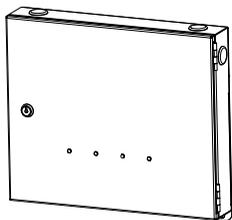


## IRX2 Infrared Wall-Mount Receiver Amplifier

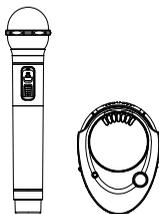
### Cautions

1. Do not cover the infrared emitter area of the wireless transmitter or the surface of the infrared sensor.
2. Do not use the transmitter too close to speakers to prevent feedback.
3. Do not install near heat source or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
4. Do not use two transmitters on one channel at same time because it will cause abnormal operation.
5. Since this system uses infrared light carrier to transmit audio signals, it is not suitable for installation in rooms with dark ceilings and walls.

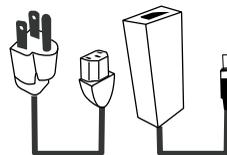
### In the box



IRX2 receiver amplifier



1 or 2 handheld or pendant transmitter (optional)



Switching power supply  
(plug varies from country to country)



4P PHOENIX x1pc



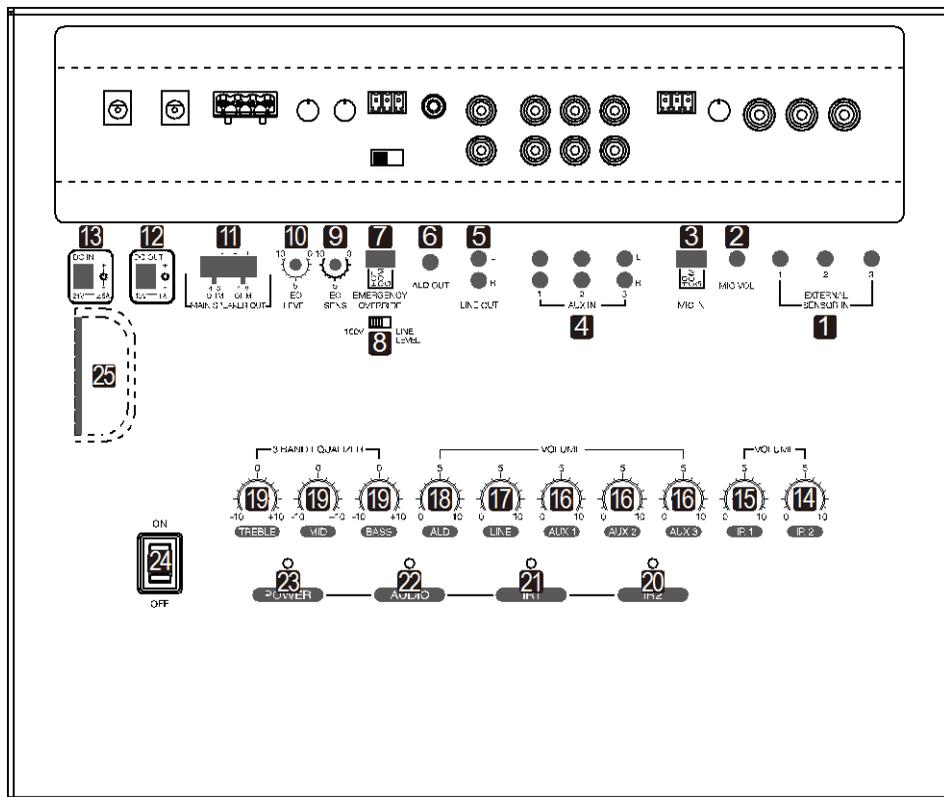
3P PHOENIX x2pcs



operation manual

\*\* Note: The above specifications are subject to change without prior notice.

## Parts and functions of receiver amplifier



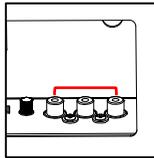
- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>1. External sensor inputs</li> <li>2. MIC volume control</li> <li>3. MIC input (3P PHOENIX)</li> <li>4. AUX input (R/L)</li> <li>5. LINE output (R/L)</li> <li>6. Audio output for assistive listening device</li> <li>7. Audio input for EMERGENCY OVERRIDE</li> <li>8. EMERGENCY OVERRIDE voltage selector</li> <li>9. EMERGENCY OVERRIDE sensitivity control</li> <li>10. EMERGENCY OVERRIDE volume control</li> <li>11. Main speaker output (4P PHOENIX)</li> <li>12. DC output (12V 1A)</li> <li>13. DC input</li> </ul> | <ul style="list-style-type: none"> <li>14. IR MIC② volume control</li> <li>15. IR MIC① volume control</li> <li>16. AUX input volume control (R/L)</li> <li>17. LINE output volume control (R/L)</li> <li>18. Volume control of assistive listening device</li> <li>19. Tone controls: bass, middle and treble</li> <li>20. IR MIC② signal indicator</li> <li>21. IR MIC① signal indicator</li> <li>22. Audio indicator</li> <li>23. Power indicator</li> <li>24. Power switch</li> <li>25. Lock</li> </ul> |
|--|--|

### Operating the system

1. First, find the optimal location with the widest view of the room to install the IR amplifier.
2. Connect power adaptor into the power outlet, and then connect the DC plug of adaptor to the amplifier.
3. Connect the speakers to the amplifier (4Ω min). See tips for multiple speakers.
4. Turn on the amplifier.
5. Turn on the transmitter and the IR signal indicator(s) will glow.
6. Adjust the volume control of amplifier to comfortable level.

**TIP:** Reduce the treble slightly if feedback/howling, or operate transmitter further from speakers.

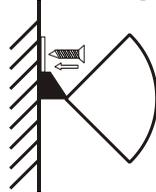
### Installing external sensor



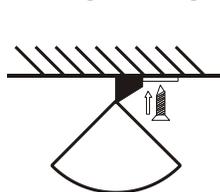
### IS-20A (wall/ceiling-mount type)

1. Infrared optimal coverage: 90°
2. Find the best position with wide view of the room.
3. Mount the sensor on the FIXING HOLDER on the wall or ceiling.
4. The LED of infrared sensor will glow red when power on.

wall mounting



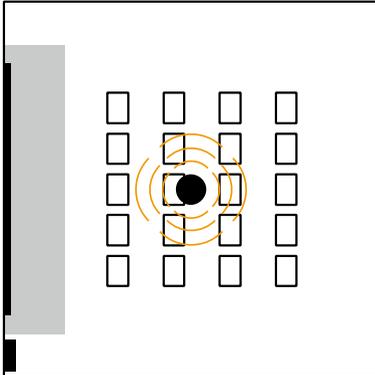
ceiling mounting



**IS-30A (ceiling-mount type)**

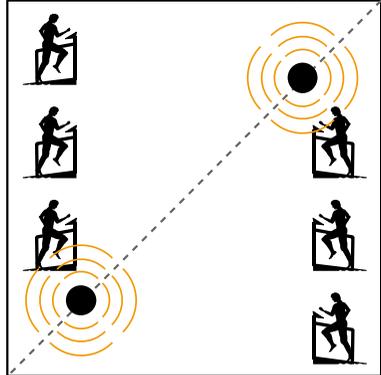
⊙ **Ordinary space such as a classroom**

1. Locate the IS-30A sensor in the center of the ceiling, as illustrated below
2. Connect the sensor cable to the receiver amplifier.
3. Turn on the amplifier and ready to use.



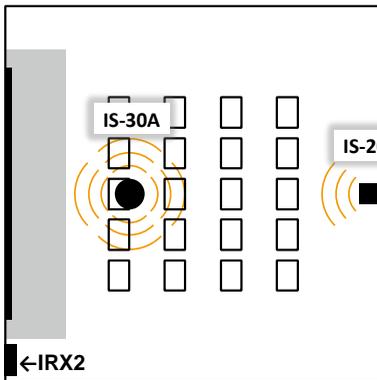
⊙ **larger space such as a fitness center**

1. Locate two or three IS-30A sensors on the suggested positions on the cater-corner of the ceiling, as illustrated below.
2. Connect the sensor cable to the receiver amplifier.
3. Turn on the amplifier and ready to use.

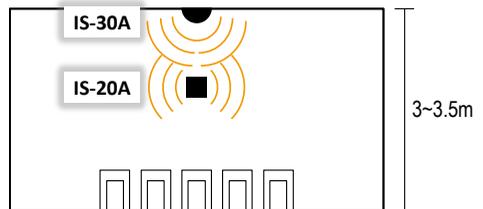


**Other sensor installing recommendations**

⊙ **One IS-20A wall sensor + one IS-30A ceiling sensor**

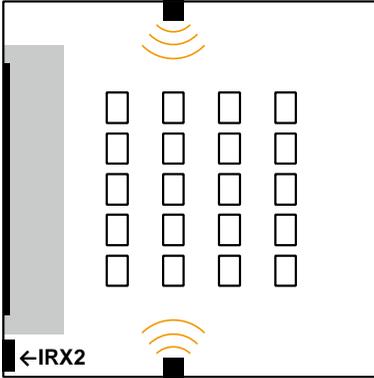


Ex: 10x10 sqm classroom

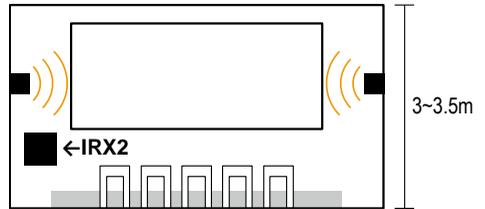
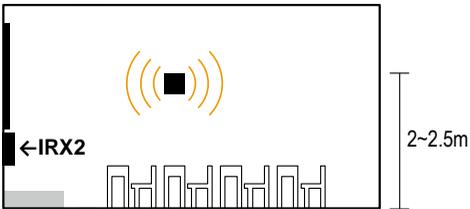


# IRX2 Infrared Wall-Mount Receiver Amplifier

◎ Two IS-20A wall sensors



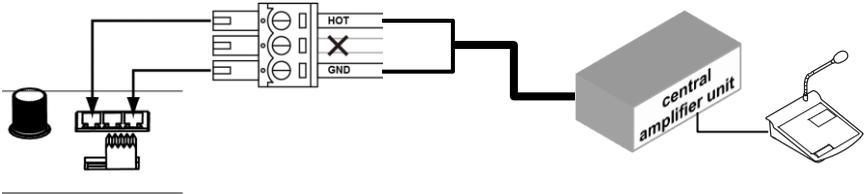
Ex: 10x10 sqm classroom



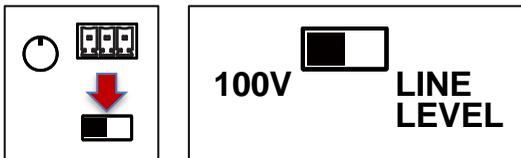
## Connecting central amplifier unit for public broadcasting

When IRX2 receives public broadcasting audio signal from the central amplifier unit into the emergency override (EO) jack, all audios will be muted except the EO audio.

- 1 Plug and tighten the EO cables (x2) into the 3P PHOENIX connector's jacks as illustrated below. Then plug the connector to the 3P PHOENIX jack.

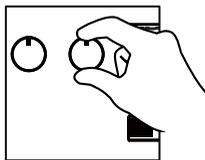


- 2 Switching voltage level of EO input from the central amplifier unit.  
If the EO input voltage is **100V**, please switch to **100V**. (LEFT )  
If the EO input is **LINE** level, please switch to **LINE**. (RIGHT )

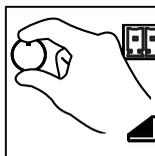


- 3 Adjust the sensitivity level for activation with **EO SENS** control knob.  
The output level of central amplifier unit varies on brands and models. The activation level can be adjusted after connecting to IRX2 receiver amplifier. Please select a proper sensitivity level that can activate EO so that paging call or other announcement can be broadcasted via IRX2.

**Important!! High sensitivity may result in noise into IRX2 too. Please set the EO SENS to a level that is just enough to make EO broadcast work.**



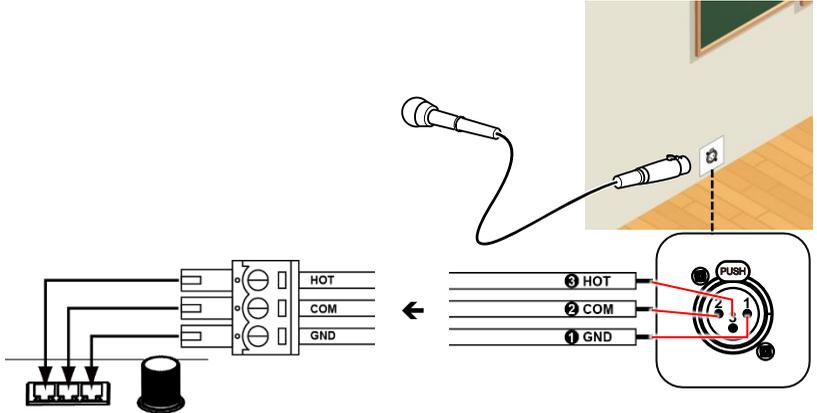
- 4 The public broadcasting volume can be adjusted by **EO LEVEL** control knob.



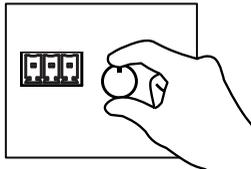
## Using the wired microphone

- 1 Plug and tighten the XLR microphone outreach plate cables (x3) into the 3P PHOENIX connector's jacks in accordance with the polarity. Then plug the connector to the 3P PHOENIX jack.

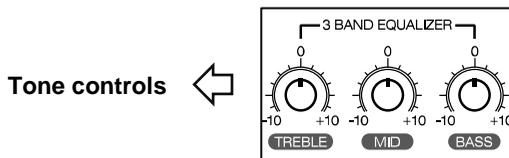
※**G** for grounding, **COM** for positive, **HOT** for negative



- 2 Minimize the microphone volume **MIC VOL** before power on. Then adjust to a proper level on demand after power on.

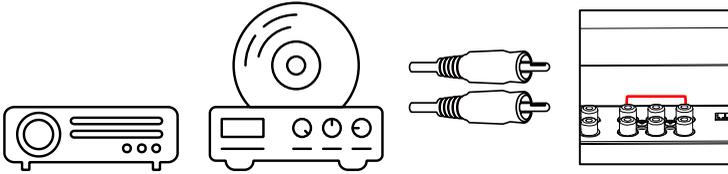


- 3 Bass, middle and treble tone levels can be adjusted individually.

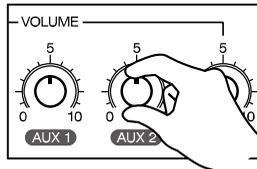


**Music audio input – Projector, DVD player**

- 1** Plug the audio cable with RCA R/L plugs to the **AUX IN 1-3**'s RCA R/L jacks.

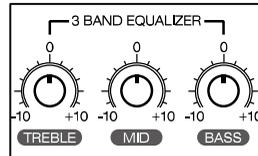


- 2** Minimize the aux input volume **AUX IN 1-3** before power on. Then adjust to a proper level on demand after power on.



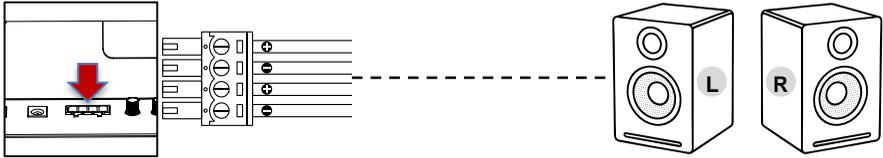
- 3** Bass, middle and treble tone levels can be adjusted individually.

**Tone controls** ←



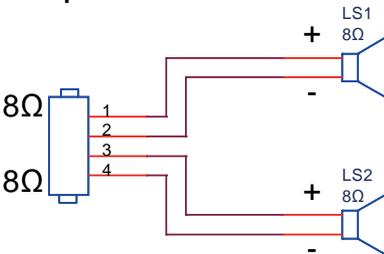
## Connecting L/R stereo speakers

Plug the external speaker's audio cable to the 4P PHOENIX jacks of **MAIN SPEAKER OUT**. The speaker's impedance must be  $4\Omega$  or more. When using 4P PHOENIX for connection, please accord with the positive (+) and negative (-) polarities.

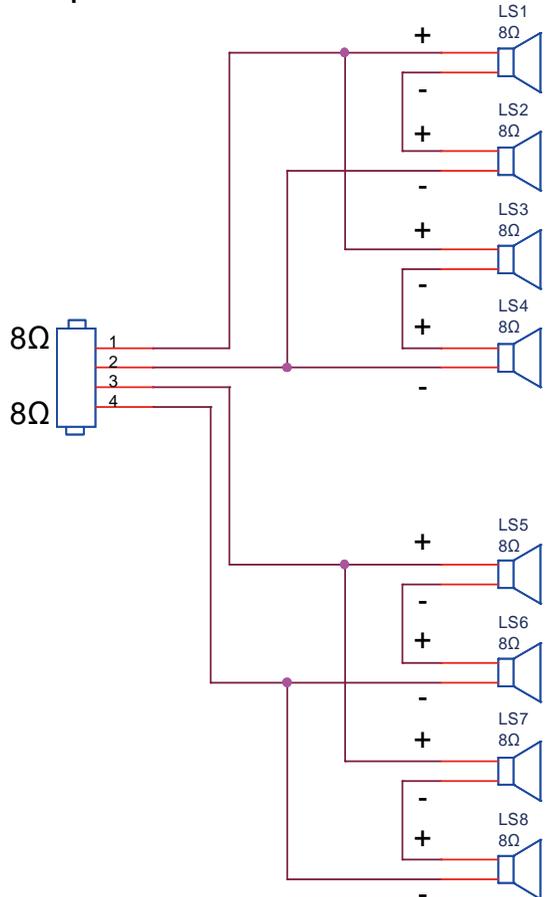


## Speaker connections

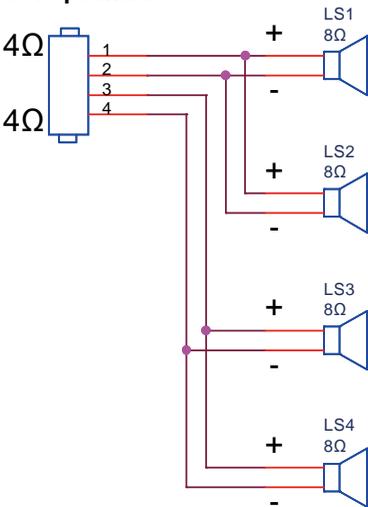
### 2 speakers



### 8 speakers

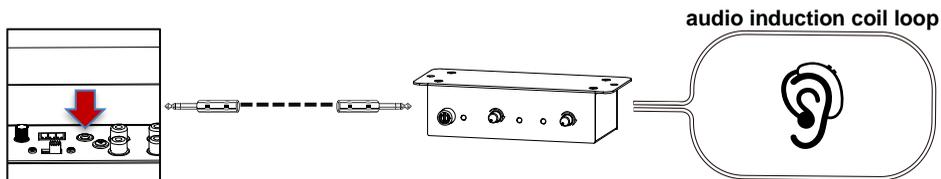


### 4 speakers

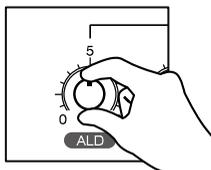


## Connecting the assistive listening device (ALD)

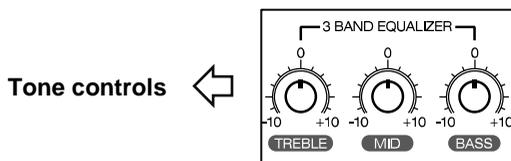
- 1 Plug the audio cable with 3.5mm plug from the **ALD OUT**'s 3.5mm jack to the assistive listening device.



- 2 Minimize the ALD volume (**ALD**) before power on. Then adjust to a proper level on demand after power on.

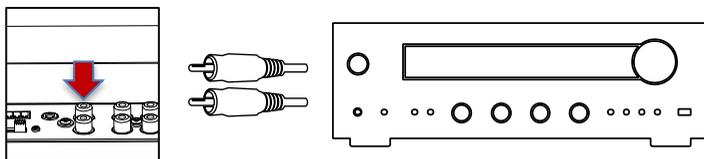


- 3 Bass, middle and treble tone levels can be adjusted individually.



## Connecting external amplifier

Plug the audio cable with RCA R/L plugs from the **LINE OUT**'s RCA R/L jacks on the rear panel to an external amplifier.



**CHIAYO ELECTRONICS CO., LTD.**

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