



ISO 9001



ISO 14001



OHSAS 18001



GREEN PRODUCT

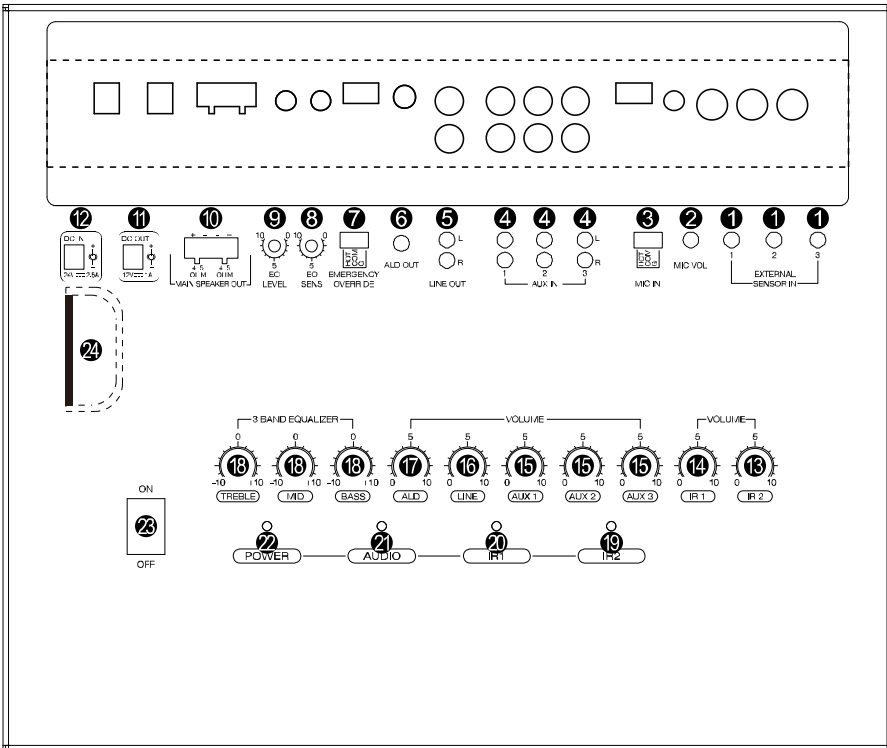


Thank you for purchasing our infrared wireless microphone system. Please be sure to read the user's manual thoroughly and keep it for future reference.

Cautions

- Do not cover the infrared emitter area of the wireless transmitter or the surface of the infrared sensor.
- Do not use the transmitter too close to speakers to prevent feedback.
- Do not replace the battery when power is on.
- Do not install near heat source or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Do not use two transmitters on one channel at same time because it will cause abnormal operation.

Parts and functions of amplifier



1. External sensor connectors. Allows 3 external sensors to be used with this system.
2. Mic In volume control
3. Mic In
4. Aux In. Allows 3 audio sources to apply to this system.
5. Line Out

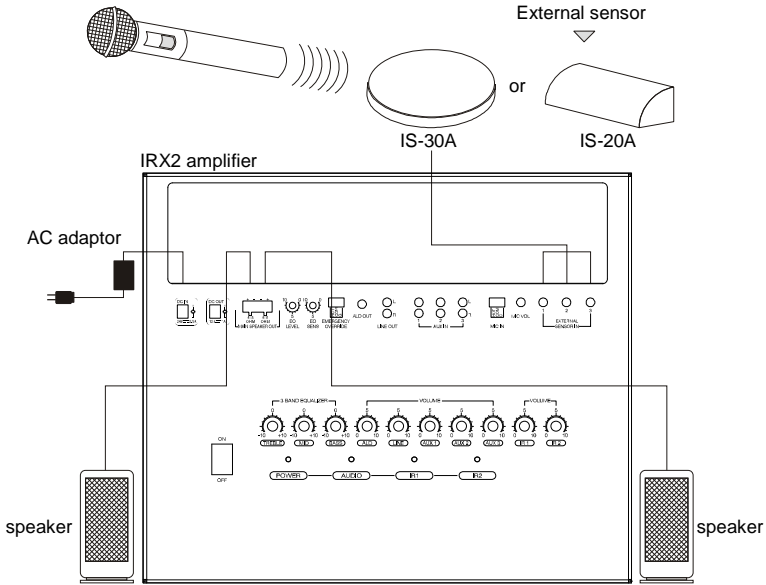
6. Audio output connector for assistive listening device. The volume level can be adjusted individually via the volume knob below.
7. Emergency Override (EO). When this function is activated, all operation of this unit will be stopped temporarily, emergency audio source will be amplified through this input. This function is specifically designed for emergency or public broadcast. (100V line input required.)
8. Sensitivity setting of emergency override (EO). Clockwise to increase the sensitivity.
9. Volume setting of EO. Clockwise to increase the volume.
10. Main speaker out (R/L)
11. Power output. Offers power for connected transmitter charger (HC-40).
12. DC in
13. IR2 volume control
14. IR1 volume control
15. Aux In volume controls. Individually for 3 audio inputs.
16. Line Out volume control
17. Volume control of assistive listening device
18. 3-band tone controls. Individual bass, mid and treble.
19. IR2 reception indicator
20. IR1 reception indicator
21. Audio indicator
22. Power indicator
23. Power switch
24. Lock

Operating the system

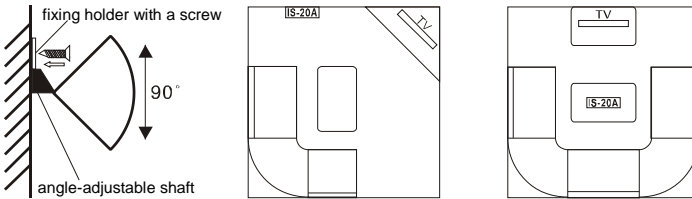
1. First, find the optimal location with the widest view of the room to install the IR amplifier.
2. Connect power adaptor into nearby power outlet, and then connect the DC plug of adaptor to the amplifier.
3. Connect the speakers to the amplifier (4Ω min). See tips for multiple speakers.
4. Turn on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

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

Connections

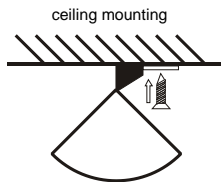
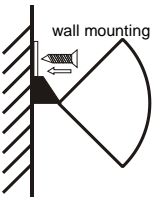


Installing the external sensor **IS-20A** (wall/ceiling-mount type)



Find the best position for sensor to be mounted as illustrated for optimal coverage.

Mount the external sensor **IS-20A** on a wall or ceiling.



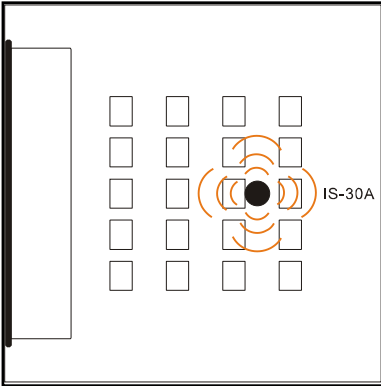
- (a) Mount (Refer to illustration) the **FIXING HOLDER** (wall or ceiling) using a screw (provided) or two double-coated tapes
- (b) Find the best position with wide view of the room. Mount the sensor on the **FIXING HOLDER** on the wall or ceiling.

NOTE: The LED of infrared sensor will turn red when power on. If not, please check your connections.

Installing the external sensor IS-30A (ceiling-mount type)

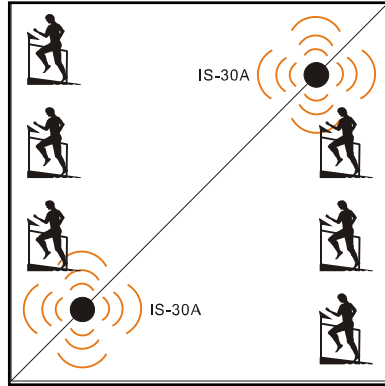
In an ordinary space such as a classroom

1. Locate the IS-30A sensor in the middle of the ceiling, as illustrated below
2. Connect the sensor cable to the receiver.
3. Turn on the IR system and amplifier then operation can be started.

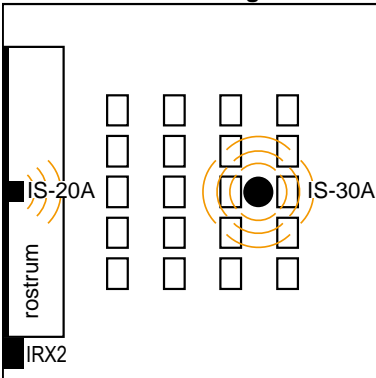


In a larger space such as a fitness center

1. Locate 2 or 3 IS-30A sensors on the suggested positions on the cater-corner of the ceiling, as illustrated below.
2. Connect all sensor cables to the receiver.
3. Turn on the IR system and amplifier then operation can be started.

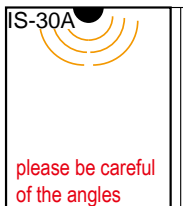
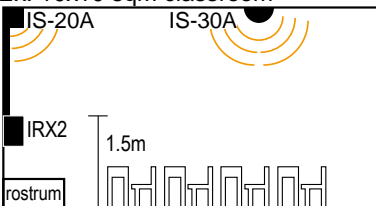


Other sensor installing recommendations

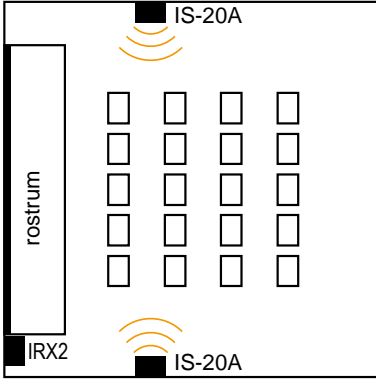


One **IS-20A** wall sensor + one **IS-30A** ceiling sensor

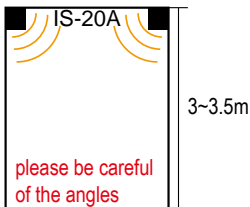
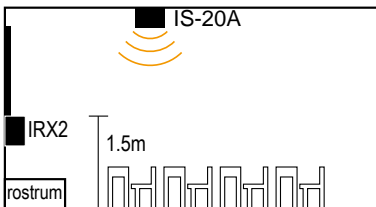
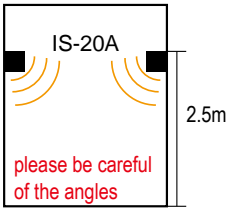
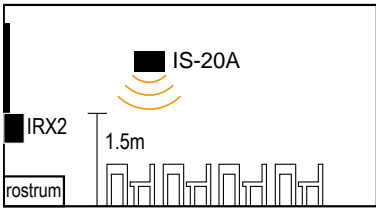
Ex: 10x10 sqm classroom



Two IS-20A wall sensors



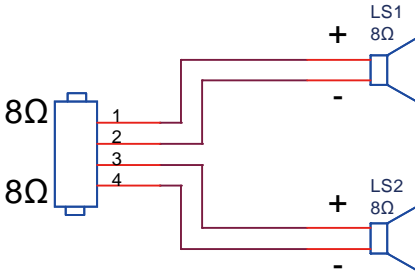
Ex: 10x10 sqm classroom



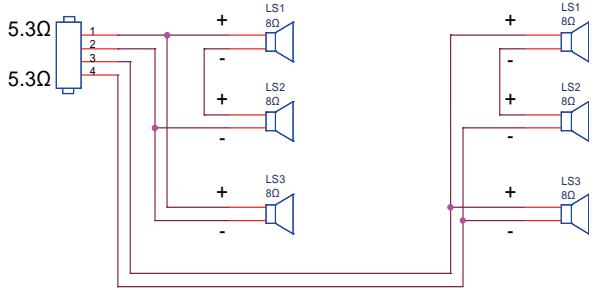
Speaker connections

The minimum load is 4Ω for the amplifier. Example configurations below.

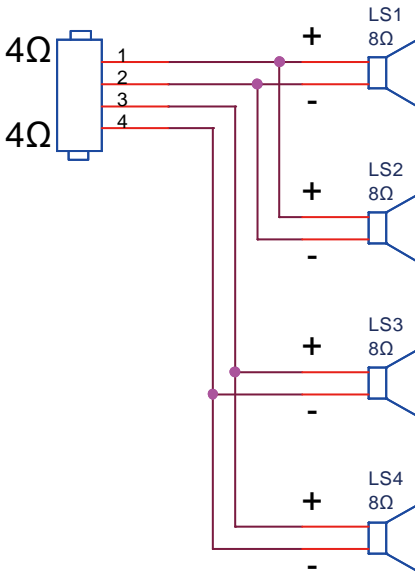
2 speakers ↓



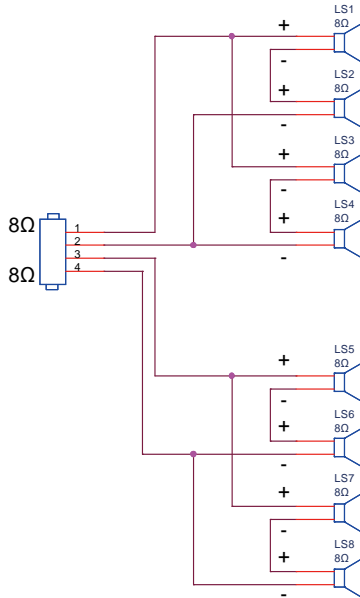
6 speakers ↓



4 speakers ↓

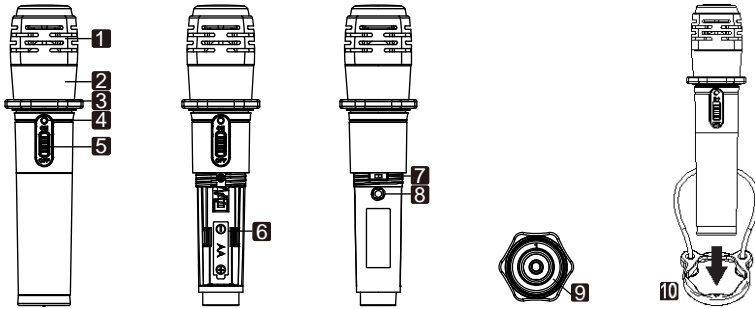


8 speakers ↓



Handheld/Pendant IR Transmitter IWH-401

Parts and functions



1. Cartridge screen.
2. Infrared emitter. IR ray radiates from here. Do not block or hold this part of the body.
3. Anti-rolling color ring.
4. Status LED: Bicolor LED will glow when switch is put to ON.
Green: Battery is full and transmitter is in normal mode.
Red: Battery is weak and will shut off soon. Please charge the battery.
5. Power switch: Slide to turn transmitter on or off.
6. Battery compartment. Turn the battery cover counterclockwise and pull out. Make sure the transmitter is turned off when installing or replacing batteries. Install the new battery according to its correct polarity. IWH-401 uses only 1 AA battery to operate.
7. Channel selector. Channel A: 2.08MHz, Channel B: 2.54MHz
8. Sensitivity control. Clockwise to increase sensitivity level. Factory preset is max level.
9. Charging contact, workable with **HC-40** (single-unit) / **HC-402** (dual-unit) charger.
Please note: This transmitter has a unique inbuilt safety feature to protect from overcharging the battery. It incorporates a special charging function enabled when 1cm of the PVC cover of the battery's negative end is removed by 1cm. Any rechargeable batteries used must be used this way for safe charging.
10. Pendant holder. Place IWH-401 through this holder and it can be used as a pendant transmitter.

Battery installation/charging

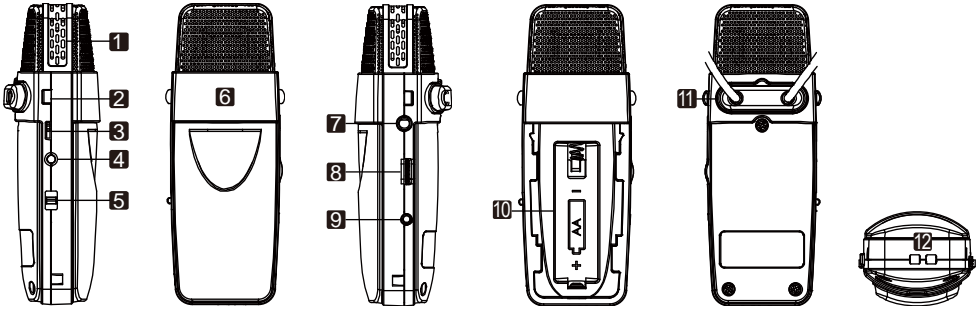
Unscrew the battery cover and install 1 AA battery. Please make sure the battery type is rechargeable if it's to be used with the charger. It can be charged without being removed from the transmitter. If the transmitter is to be left unused for a long period of time, please remove the battery until next use.



One Alkaline battery or 1cm-
negative-peeled AA NiMH battery

Handheld/Pendant IR Transmitter ITX2

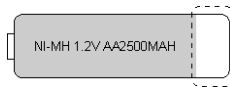
Parts and functions



1. Cartridge screen.
2. Release buttons of pendant holder.
3. Channel selector. Channel A: 2.08MHz, Channel B: 2.54MHz
4. Bicolor status LED.
Green: Battery full.
Red: Battery weak and needs recharging.
5. Power on-off/audio mute switch.
6. Infrared emitter. IR ray radiates from here. Do not block or hold this part of the body.
7. Line input ($\Phi 3.5\text{mm}$) for external audio input.
8. Volume control.
9. Mic input ($\Phi 2.5\text{mm}$) for external headset or lavalier microphone.
10. Battery compartment. ITX2 uses only 1 AA battery to operate.
11. Pendant holder.
12. Charging contact, workable with **HC-42** (single-unit) / **HC-422** (dual-unit) charger..
Please note: This transmitter has a unique inbuilt safety feature to protect from overcharging the battery. It incorporates a special charging function enabled when 1cm of the PVC cover of the battery's negative end is removed by 1cm. Any rechargeable batteries used must be used this way for safe charging.

Battery installation/charging

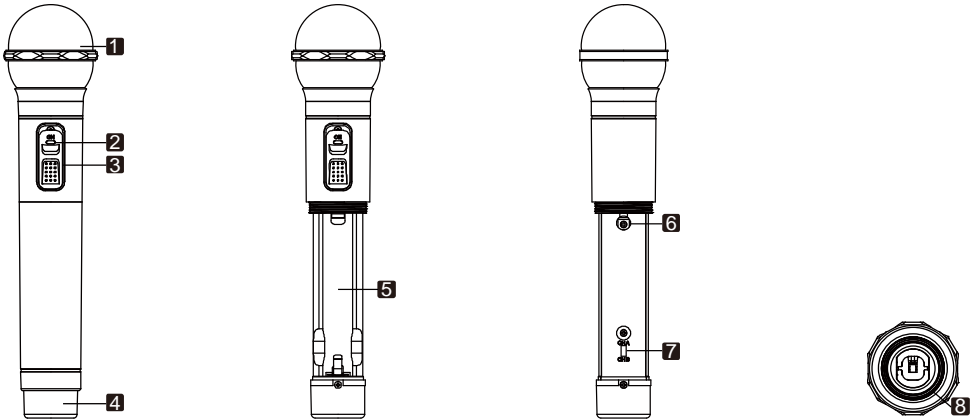
Press and slide off the battery cover and install 1 AA battery. Please make sure the battery type is rechargeable if it's to be used with the charger. It can be charged without being removed from the transmitter. If the transmitter is to be left unused for a long period of time, please remove the battery until next use.



One Alkaline battery or 1cm-negative-peeled AA NiMH battery

Handheld IR Transmitter IWH-301

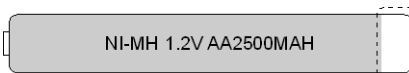
Parts and functions



1. Cartridge screen.
2. Status LED: Bicolor LED will glow when switch is put to ON:
Green: Battery is full and transmitter is in normal mode.
Red: Battery is weak and will shut off soon. Please charge the battery.
3. Power switch: Slide to turn transmitter on or off.
4. Infrared emitter. IR ray radiates from here. Do not block or hold this part of the body.
5. Battery compartment. Turn the battery cover counterclockwise and pull out. Make sure the transmitter is turned off when installing or replacing batteries. Install the new battery according to its correct polarity. IWH-301 uses only 2 AA batteries to operate.
6. Sensitivity control. Clockwise to increase sensitivity level. Factory preset is max level.
7. Channel selector. Channel A: 2.08MHz, Channel B: 2.54MHz
8. Charging contact, workable with **HC-20+** charger..
Please note: This transmitter has a unique inbuilt safety feature to protect from overcharging the battery. It incorporates a special charging function enabled when 1cm of the PVC cover of the battery's negative end is removed by 1cm. Any rechargeable batteries used must be used this way for safe charging.

Battery installation/charging

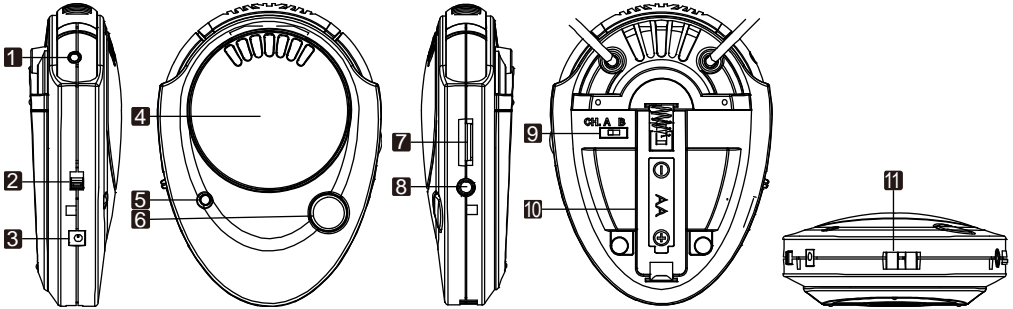
Unscrew the battery cover and install 2 AA batteries. Please make sure the battery type is rechargeable if it's to be used with the charger. It can be charged without being removed from the transmitter. If the transmitter is to be left unused for a long period of time, please remove the battery until next use.



Two Alkaline batteries or 1cm-negative-peeled AA NiMH battery

Pendant IR Transmitter IWM-402

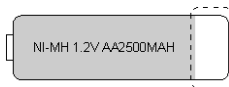
Parts and functions



1. Mic in ($\Phi 2.5\text{mm}$). Headset or lavalier microphone.
2. Power switch.
3. Charging port.
4. IR emitter area. IR ray radiates from here. Do not block or hold this part of the body.
5. Status LED: Bicolor LED will glow when switch is ON.
Green: Battery is full and transmitter is in normal mode.
Red: Battery is weak and will shut off soon. Please charge the battery.
6. Mute. Press this button to mute/resume audio transmission.
7. Volume control.
8. Line in ($\Phi 3.5\text{mm}$), for external audio input.
9. Channel selector. Channel A: 2.08MHz, Channel B: 2.54MHz
10. Battery compartment. IWM-402 uses only 1 AA battery to operate.
11. Charging contact, workable with **HC-40** (single-unit) / **HC-402** (dual-unit) charger.
This transmitter has a unique inbuilt safety feature to protect from overcharging the battery. It incorporates a special charging function enabled when 1cm of the PVC cover of the battery's negative end is removed by 1cm. Any rechargeable batteries used must be used this way for safe charging.

Battery installation/charging

Open the battery compartment and on install 1 AA battery. Please make sure the battery type is rechargeable if it's to be used with the charger. It can be charged without being removed from the transmitter. If the transmitter is to be left unused for a long period of time, please remove the battery until next use.



One Alkaline battery or 1cm-negative-peeled AA NiMH battery



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