OWNER'S MANUAL

IR LANGUAGE DISTRIBUTION SYSTEM

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Important Safety Instructions

1. Please read this safety instruction carefully before installing and using the apparatus.
2. Please keep these safety instructions for future reference.
3. Please strictly heed all warnings in the user's guide.
4. Please follow all the operation instructions in the user's guide.
5. To prevent from any hazard, do not use this apparatus near water.
6. Equipment cleaning: Make sure to turn off the power supply and disconnect the units before cleaning. Clean only with a dry soft cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacture's instructions.
8. Do not install near any heat sources such as radiators. Heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Grounding: 3-wire grounding plug, and do not defeat the safety purpose of this plug. A grounding type plug has two blades and a third grounding prong, the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. To prevent from any hazard, only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lighting storms or when unused fro long periods of time.
14. Refer all servicing to nearest qualified service center. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Do not place the equipment on any uneven or unstable stand; original product package or appropriate package should be used to avoid damage caused by strong impacts during transportation.
16. The quantity if connected IR radiators in one system should not exceed prescribed quantity. For service, please contact the nearest service center.
17. All products are guaranteed for 1 year excluding the following cases:
    a. all damage or malfunction caused by human negligence;
    b. Damage or malfunction caused by improper operating by operator;
    c. Parts damage or loss caused by disassembling the product by non-authorized personnel.
18. Use only specified connection cable to connect the system equipment.

This label appears on the rear of the unit duce to space limitations

	Caution! The equipment or the property can be damaged, or persons can be lightly injured if the alert is not observed.
	Warning! The equipment or the property can be seriously damaged, or persons can be severely injured if the alert is not observed.
	Danger! Not observing the alert can lead to severe injuries or death.

1. Overview

This IR language distribution system is a system for wireless distribution of audio signals via infrared radiation. It can be used in a simultaneous interpretation system for international conferences where multiple languages are used. To enable all participants to understand the discussion, interpreters simultaneously translate the speaker's language as required. These interpretations are distributed throughout the conference venue, and delegates select the language of their choice and listen to it through headphones. The system can also be used for music distribution.

This IR language distribution system comprises one or more of the following:

Infrared transmitter

The transmitter is the core of the system. Four types are available:
- Inputs for 4 audio channels
- Inputs for 6 audio channels
- Inputs for 8 audio channels
- Inputs for 12 audio channels

Infrared radiator

The radiators can be mounted on walls, ceilings or floor stands.
- The radiator support up to 12 channels audio transmission

Infrared receivers

Four multi-channel infrared receivers are available:
- 4 audio channels
- 6 audio channels
- 8 audio channels
- 12 audio channels

The receivers can operate with rechargeable NiMH batteries or with disposable batteries. Charging circuitry is incorporated in the receiver.

Interpreter consoles

Four Interpreter consoles are available:
- 4 audio channels
- 6 audio channels
- 8 audio channels
- 12 audio channels

Charging equipment

- The charging unit is for charging and storing 24 infrared receivers.

1.1 Infrared transmitter

1.1.1 Picture of the actual object

1.1.2 Features of infrared transmitter

a. Suitable for different conference hall, no disturb under daylight lamp

b. 1.7-4MHz frequency band eliminates disturbance from all types of lighting systems.

c. The system provides multi-channel 4/6/8/12 for option

d. High security, prevent external interference.

e. Elegant configuration in accordance to ergonomics.

f. Installation: 19-inch frame

1.1.3 Schematic diagram of Infrared transmitter
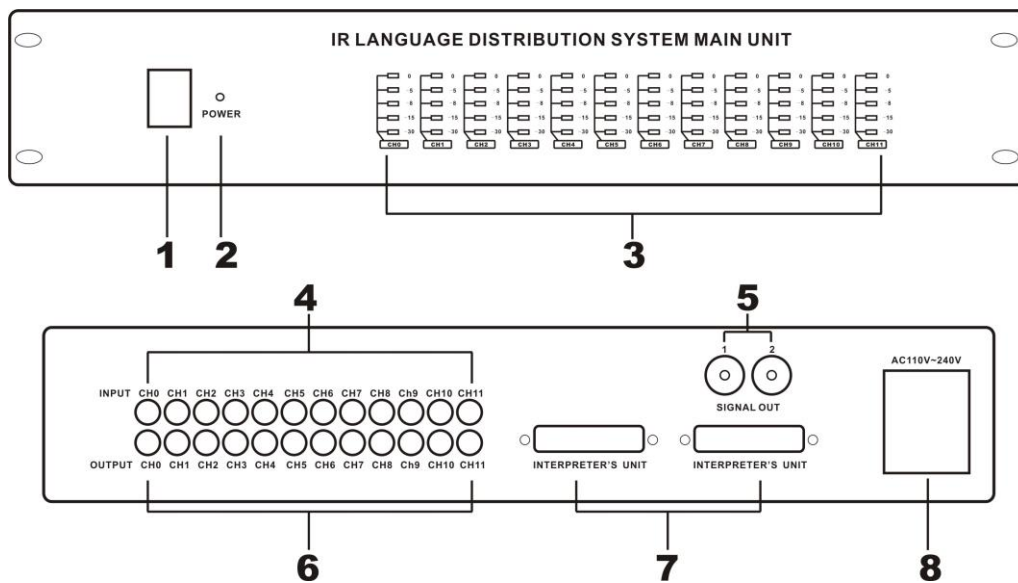
1) Power on/off switch: Power switch (Press I to turn on the power, power indicator is lighting, press O to turn off the power)

2) Power LED

3) Output audio level indicator of each channel

4) Auxiliary audio inputs: Female RCA connector for external audio inputs to connect auxiliary audio

signals such as music, floor language or emergency audio signal

5) HF signal output: Two HF BNC connectors, used to connect the radiators. Up to 30 Radiators can be loop-through connected to each output.

6) Audio signal output: 4/6/8/12 audio connectors to connect other audio equipments. The number of connectors depends on the transmitter type

7) Interpreter connector: Use for connection interpreter consoles

8)   g

Power supply: The transmitter has automatic voltage selection. A power cable is provided.

1.1.4 Parameter of infrared transmitter

Items	Parameter
Modulation frequency	Carriers 0 to 11: 1.7 to 4 MHz
Protocol and modulation	digital PLL
Audio frequency response	100Hz–14kHz (-3dB) at standard quality
Total harmonic distortion at 1 kHz	<0.5%
Crosstalk attenuation at 1 kHz	＞80dB
Dynamic range	＞80dB
Weighted signal-to noise ratio	＞80dB(A)
Power consumption	40W
Asymmetrical audio inputs	+3 dBV nominal, +6dBV maximum(±6dB)
HF output	1 Vpp, 6VDC, 50Ohm
RF output power level	700mV
RF output impedance	50 Ohms
Interpreter console connector interface	25P-DIN
Audio input	RCA x12
Items	Parameter
Audio output	RCA x12
HF output connector interface	BNC x 2
Operating temperature range	0-40 degree
Power supply	AC110V-200V ~ 50Hz-60Hz
Dimensions	485×355×90mm
Mounting	19" rack mounting
N.W	8kg

1.2 Infrared radiator

1.2.1 Picture of the actual object

1.2.2 Features of infrared transmitter

a. Radiates & distributes up to 12 channels of audio signal

b. Convection cooled for noiseless, reliable operation

c. Powerful compression techniques enable efficient, low-loss transmission.

d. Mounted on ceiling, wall, floor stand or optional tripod

e. Easily daisy-chained together to expand coverage

f. Angle of half intensity: ±22°

1.2.3 Schematic diagram of infrared radiator
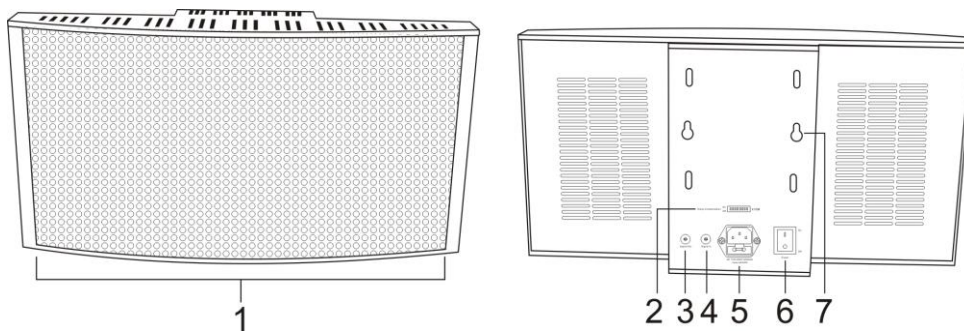
1) Infrared Leds and IR lens.

2) Delay compensation switches: 8-position switches to compensate for differences in cable lengths to the radiators. (This function is available for fully digital system)

3-4) IR signal input/output: 2 HF BNC connectors for connecting the transmitter and radiator. Input connector for connecting transmitter directly or the output connector from previous radiator. Output connector for connecting input connector of next radiator.

5) Power input: Male power plug connector. The radiators have automatic voltage selection.

6) Radiator power on/off switch

7) Bracket hole: Tapped hole to mount the suspension bracket.

1.2.4 Parameter of Infrared radiator

Items	Parameter
HF input	Nominal 1 Vpp, minimum 10mVpp
Angle of half intensity	±22°
Total optical peak intensity	24 W/sr
Power consumption	Operating: 30W; Standby:25 W
Transmission distance	＜30 meters/12 CH
Number of IREDs	312
Power supply	AC110V-220V ~ 50Hz-60Hz
Dimensions	445×235×113mm
Operating temperature range	0-40 degree
Mounting	Standard: Bracket, Option: tripod
N.W	4.2kg

1.3 Interpreter console

1.3.1 Picture of the actual object

1.3.2 Features of interpreter console

a.   Up to 12 Channel audio signals transmitted on a dedicated 25P-DIN or 13P-DIN cable.
b.   Interpreter consoles powered by the transmitter.
c.   Voice adjustable and with prevention on feedback
d.   Ensure that every channel is correspondent to the RELAY function respectively.
e.   Delegates speak too fast; give a request for slow the speed.
f.   Prevention on interpreter's cough
g.   LCD can display input and output channel

1.3.3 Schematic diagram of interpreter console
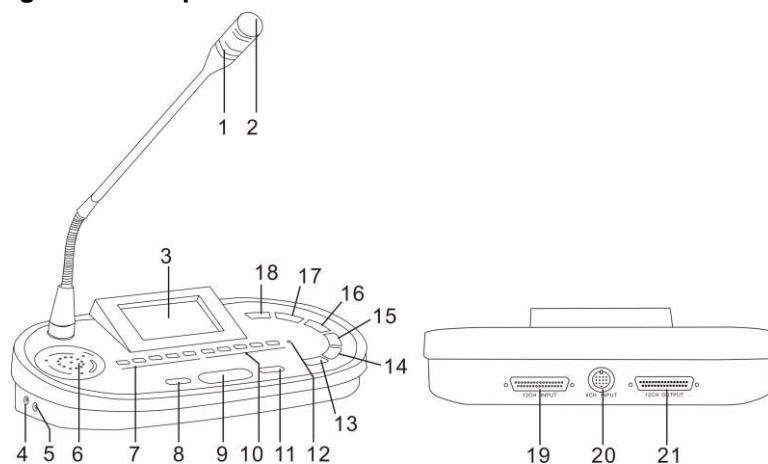
1) Microphone red indicator to show mic state
2) Unidirectional electret MIC
3) Microphone LCD to display input and output channel
4) MIC. 3.5mm input jack to connect the microphone.
5) Phone 3.5mm input jack
6) Inner speaker
7) Microphone input channel (fast key channel 0-4)
8) Slow key: Delegates/Interpreter speak too fast; give a request for slow the speed.
9) Microphone on/off key
10) Microphone output channel (fast key channel 1-5)
11) Mute key: Prevention on interpreter's cough
12) Channel busy/mute indicator
13) Volume -: Decrease the input volume
14) Volume +: Increase the input volume
15) Output channel –
16) Output channel +
17) Input put channel –
18) Input channel +
19) Input DB25 connector: first unit connect to the transmitter unit, and the next unit connect the previous unit output port.
20) 13P connector, use for connect 13P interpretation system
21) Output DB25 connector: connect the next interpreter's unit.

1.3.4 Parameter of Infrared radiator

| Items	Parameter
Frequency response	50Hz – 20kHz
Sensitivity	-42 ± 2dB
Interpreter connector interface	25P-DIN, or 13P-DIN
Length of gooseneck	410mm
Dimensions	280×140×75mm
N.W	1.4kg

1.4 Infrared receiver

1.4.1 Picture of the actual object

1.4.2 Features of infrared receiver

a.   Pocket size wireless handheld unit

b.   Accommodates up to 12 different languages

c.   Channel selector and headphone connector

d.   Power on/off switch and volume level control

e.   Powered by (3x AAA) rechargeable batteries

f.   Aluminum carrying cases provided for receivers

1.4.3 Schematic diagram of infrared receiver
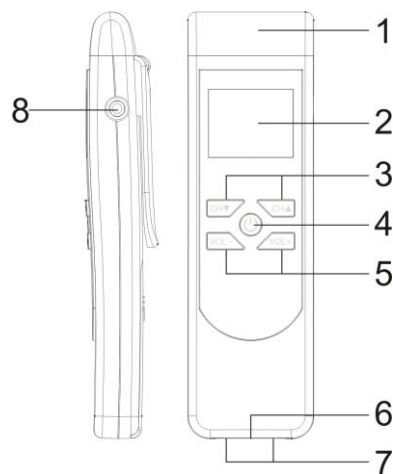
1)   IR lens: To receive infrared signals from IR radiators

2)   LCD display: Showing the selected channel, signal level, volume level and battery status. An antenna symbol is visible when the receiver picks up an infrared signal of adequate quality.

3)   Channel selector: An up/down switch to select an audio channel. The channel number is shown on the LCD display

4)   On/Off button

5)   IR lens: To receive infrared signals from IR radiators

6)   Battery cover lock: the cover can be locked, and it can opened with key

7)   Charging contacts: Used in combination with the charging equipment to recharge the batteries

8)   Headphone connector: A 3.5mm (0.14 inch) stereo jack output socket for the headphone.

1.4.4 Parameter of Infrared receiver

| Items	Parameter
Receiving sensitivity	-101dBM
Angle of half sensitivity	± 50°
Headphone output level at 2.4V	450 mVrms (Speech at maximum volume, 32 ohm headphone)
Headphone output frequency range	20 Hz to 10 kHz
Headphone output impedance	32 ohm
Max. signal-to-noise ratio	78 dB(A)
Supply voltage	3.6 V, nominal 3V
Power consumption at 3V (battery voltage)	60 mA (speech at maximum volume, 32 ohm headphone)
Power consumption (standby)	60 mA
Dimensions	155×47×24mm
Operating temperature range	0-40 degree
N.W	80g without battery

1.5 Charging unit

1.5.1 Picture of the actual object

1.5.2 Features of charging unit

a. The charging unit can recharge up to 24 pieces receivers at once.
b. The charging unit contains the power supply with automatic input voltage selection.
c. The charging electronics and a charging indicator LED are integrated in each receiver.
d. The charging circuitry checks if a batteries is present and controls the charging process receivers per charging

1.5.3 Schematic diagram of charging unit
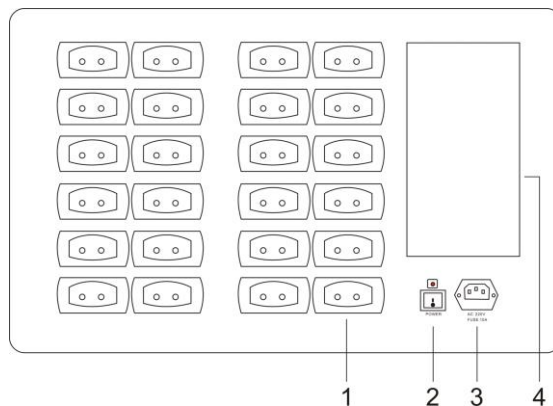
1) Receiver positions: One charging unit can charge up to 24 receivers simultaneously.
2) Power input: Male power input socket. The charging unit has automatic input voltage selection. A power cable is provided.
3) Power on/off switch
4) Power cable and batteries storage position

1.5.4 Parameter of charging unit

Items	Parameter
Power supply	AC110V-220V ~ 50Hz-60Hz
Consumption Rating	66W
Maximum charging current of each unit	220mA
Charge quantity	24
Charging time	About 2 to 2.5 hours
Charging status	Red LED flashing –Charging, Green LED –Full Charged
Operating temperature range	0-40 degree
Dimension	630x370x290mm
N.W	10.5kg

2. System installation
2.1 System connection diagram
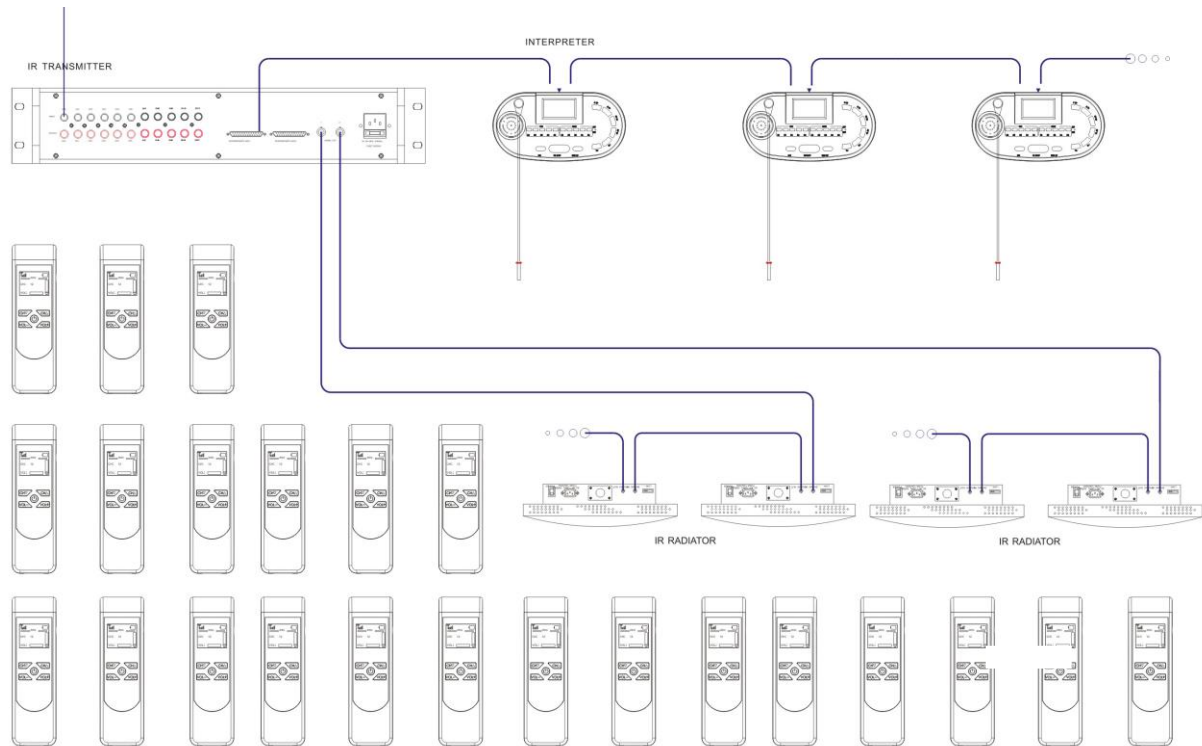
2.2 Warning
● If the units demonstrate any problems, such as abnormal sound, smoke, heat from or damage to power cables, disconnect the power plug from the outlet and contact your sales representative.
   If the power plug blades are distorted or discolored, do not use the unit. (Transmitter, IR radiator, Battery charger)
● Uncoil the power cables before use, Do not bundle the cables during use, or fie with nails. (Transmitter, IR radiator, Battery charger)
● Do not pull on the cable. Hold the plug section and insert/remove it in a straight line, damaged cables may result in electric shock, malfunction, or fire. (Transmitter, IR radiator, Battery charger)
● Do not place anything on the power cables. Do not route them under a rug or furniture. (Transmitter, IR radiator, Battery charger)
● Do not cover the units with cloth or place them in locations with poor ventilation.
   Doing so traps heat, and may result in electric shock or fire
● If you do not use the units for long periods of time, disconnect the power plugs from the outlet. (Transmitter, IR radiator, Battery charger)
● Do not disassemble the units. Touching the inside of the units may result in electric shock
● Do not expose the units to any strong shock
● Do not expose the units to direct sunlight, heat from heating appliances, high temperatures, or dust
● Do not expose the units to high humidity or moisture
   Water that accidentally enters the inside of the units may result in electric shock, malfunction, or fire

- Do not touch the power cables or plugs with wet hand.(Transmitter, IR radiator, Battery charger)
- Transmitter, IR radiator, Battery charger is a class I device. Be certain to connect to an AC outlet with a protective grounding connection
- Transmitter, IR radiator, Battery charger can be separated from the AC receptacle by turning off the unit by the power switch. In case of emergency, turn off this switch or unplug the power cable from the AC receptacle

2.2.1 CAUTION on handling of the receiver unit
- Do not drop the unit
- If you do not use the unit for long periods of time, remove the battery
- The dedicated battery should be used
- Do not cover the infrared section

2.2.2. CAUTION on installation radiator
- After mounting the IR radiator, be certain that they are securely fastened
- Do not install the IR radiator near infrared-emitting objects such as direct sunlight, incandescent lamps, halogen lamps, inverter fluorescent lamps, or plasma displays
- Noise may be generated by interference regardless of the operating distance between the IR radiator away from infrared-emitting objects
- Do not place any obstructions around the radiator

2.2.3 CAUTION on battery charger handling
- If the charging terminal is dirty, poor contact will prevent the battery from being charged properly. Periodically clean the charging terminals
- The battery charger may become hot during charging. Use it in a well-ventilated area
- After the battery is fully charged, turn off the battery charger or remove the receivers

2.3 Planning
The system is based on transmission by modulated infrared radiation. Infrared radiation forms part of the electromagnetic spectrum, which is composed of visible light, radio waves and other types of radiation. It has a wavelength just above that of visible light. Like visible light, it is reflected from hard surfaces, yet passes through translucent materials such as glass. The infrared radiation spectrum in relation to other relevant spectra is shown in the next figure.
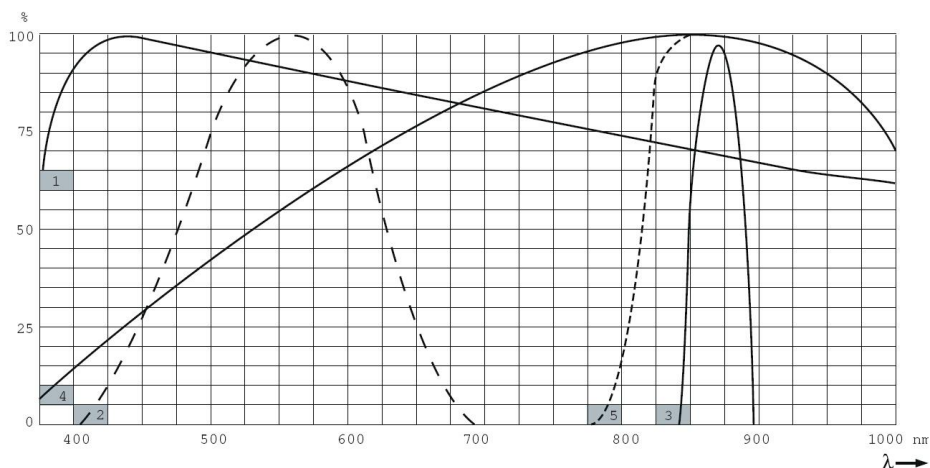
2.3.1 Aspects of infrared distribution systems

A good infrared distribution system ensures that all delegates in a conference venue receive the distributed signals without disturbance. This is achieved by using enough radiators, placed at well planned positions, so that the conference venue is covered with uniform IR-radiation of adequate strength. There are several aspects that influence the uniformity and quality of the infrared signal, which must be considered when planning an infrared radiation distribution system. These are discussed in the next sections.

### 2.3.2 Directional sensitivity of the receiver

The sensitivity of a receiver is at its best when it is aimed directly towards a radiator. The axis of maximum sensitivity is tilted upwards at an angle of 45 degrees (see the next figure). Rotating the receiver will decrease the sensitivity. For rotations of less than +/- 45 degrees this effect is not large, but for larger rotations the sensitivity will decrease rapidly.
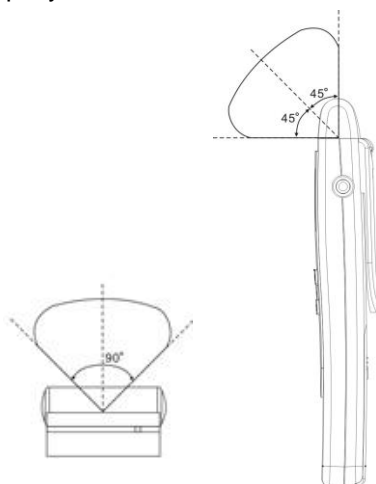
Directional characteristics of the receivers

2.3.3 The footprint of the radiator

The cross section of the 3-deimensional radiation pattern with the floor of the conference venue is known as the footprint (the white area in the following three figures). This is the floor area in which the direct signal is strong enough to ensure proper reception, when the receiver is directed towards the radiator. As shown, the size and position of the footprint depends on the mounting height and angle of the radiator.
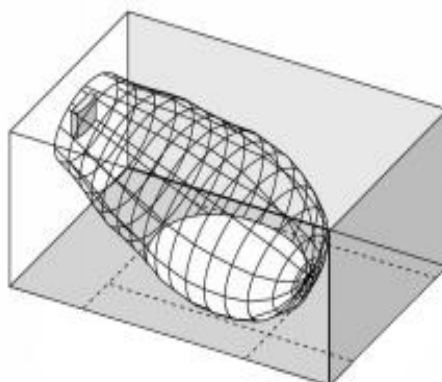
Radiator mounted at 15° to the ceiling
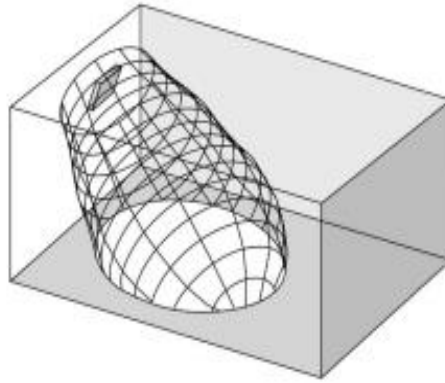
Radiator mounted at 45° to the ceiling
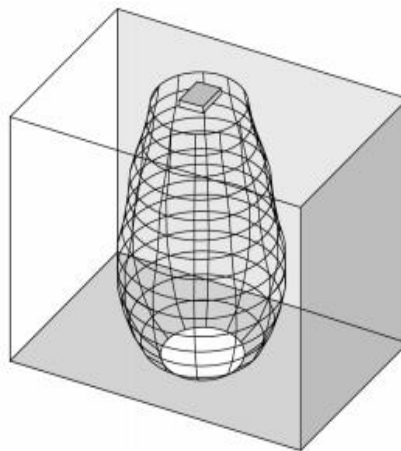
Radiator mounted perpendicular (at 90°) to the ceiling

2.3.4 Position the radiator

Since infrared radiation can reach a receiver directly and/or via diffused reflections, it is important to take this into account when considering the positioning of the radiators. Though it is best if receivers pick up direct path infrared radiation, reflections improve the signal reception and should therefore not be minimized. Radiators should be positioned high enough not to be blocked by people in the hall (see the next two figures).


Infrared signal blocked by a person in front of the participant
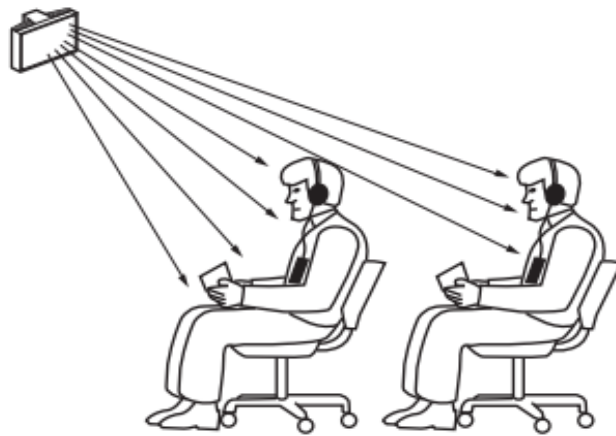
Infrared signal not blocked by a person in front of the participant

The figures below illustrate how infrared radiation can be directed to conference participants. In left figure, the participant is situated clear from obstacles and walls, so a combination of direct and diffused radiation can be received. Right figure shows the signal being reflected from a number of surfaces to the participant.
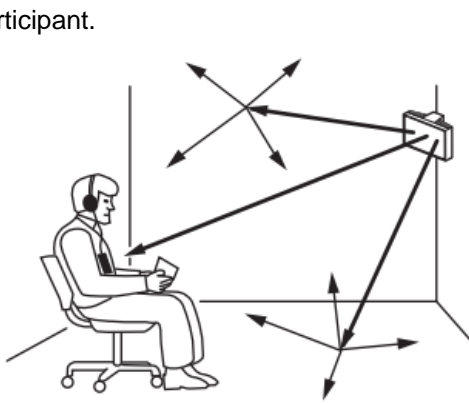

Combination of direct and reflected radiation
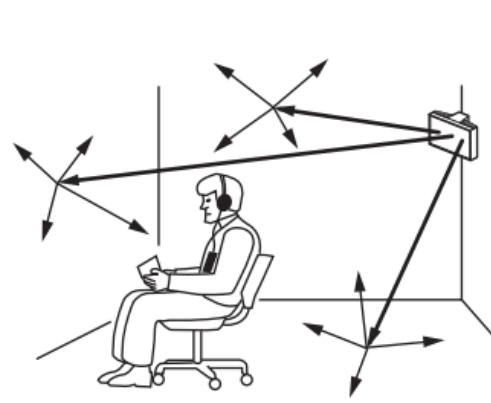
Combination of several reflected signals

For concentrically arranged conference rooms, centrally placed, angled radiators located high up can cover the area very efficiently. In rooms with few or no reflecting surfaces, such as a darkened film-projection room, the audience should be covered by direct path infrared radiation from radiators positioned in front. When the direction of the receiver changes, e.g. with varying seat arrangements, mount the radiators in the corners of the room (see the next figure)
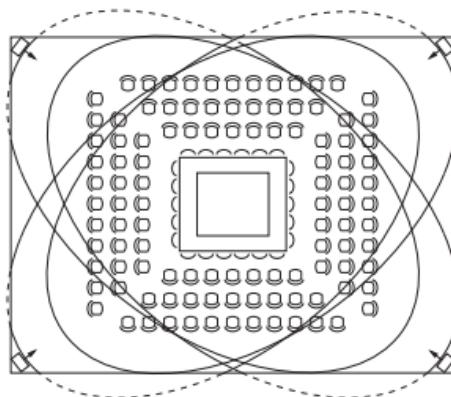
Radiator position for covering seats in a square arrangement

If the audience is always directed towards the radiators, you do not need radiators at the back (see the next figure)
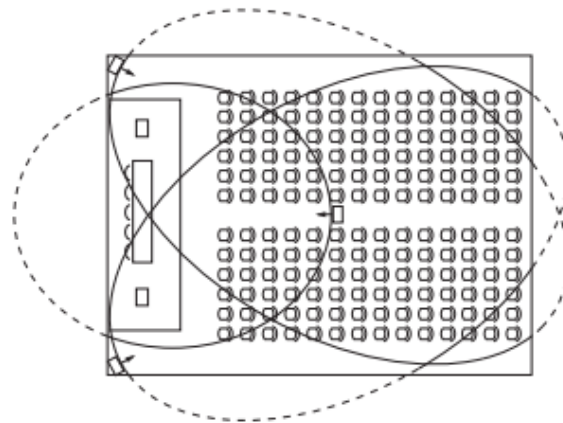
Radiator positioning in a conference hall with auditorium seating and podium

If the path of the infrared signals is partially blocked, e.g. under balconies, you should cover the 'shaded' area with an additional radiator (see the next figure)
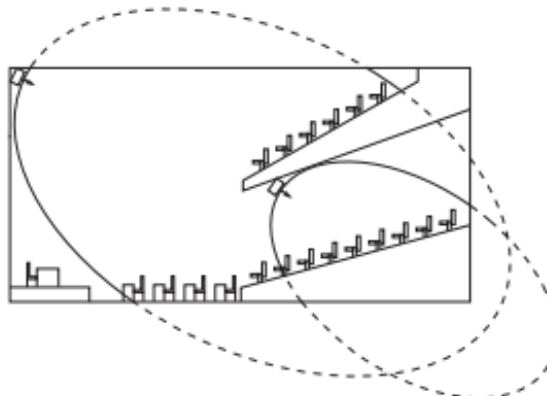
Radiator for covering seats beneath a balcony

2.4 System configuration.

Description	Model No.	Max Qty	Marks
IR transmitter	/	1	
IR radiator	/	≤30	Depend on room layout
Interpreter console	/	≤11	
IR receiver	/	/	
Charging unit	/	/	

## 2.5 Transmitter installation and connection

2.5.1 Transmitter installation

a. Put on the table or install in 19 inch frame

b. Please keep away from high-power and strong radiation equipments, or it may influence the equipment performance.

c. Use it in a well-ventilated area

### 2.5.2 BNC connector installation method

Because the interconnection coaxial cable (50Ω) of IR radiator is used for transmit IR signal, please make sure the circuit not shorted between IR signals and shielding net when install the IR radiator.

a. Please stripping the coaxial cable (50Ω) outer, shield net and insulating layer with above sketch map

b. Insert the wire and connect to the center pin, soldering it

c. Insert the shield net and insulating layer to screw nut connector.

d. Connect ferrule to the screw nut connector's anti-shedding position

e. Fasten it with plier
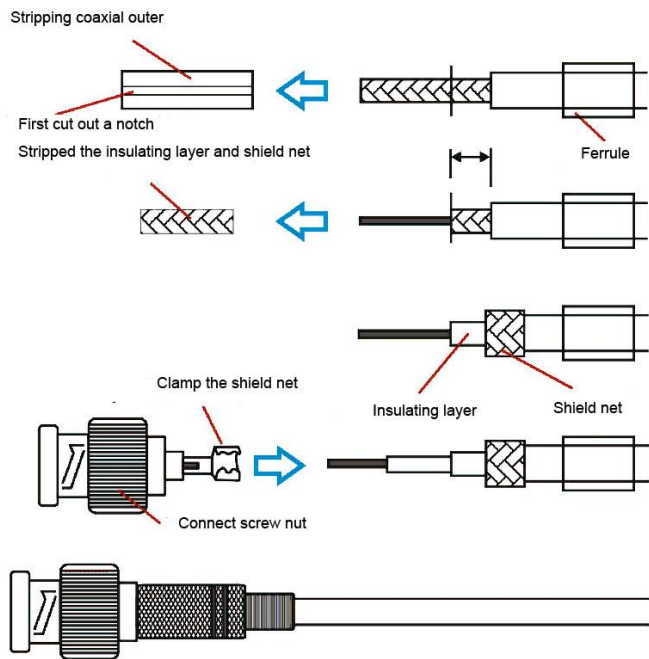
2.5.3 Connect radiators

The transmitter has four BNC HF output connectors labeled 1, 2, 3 and 4 on the rear panel. All four outputs are functionally identical. They can each drive up to 30 radiators in a loop-through configuration. The radiators are connected with 50 ohm coaxial shielded.
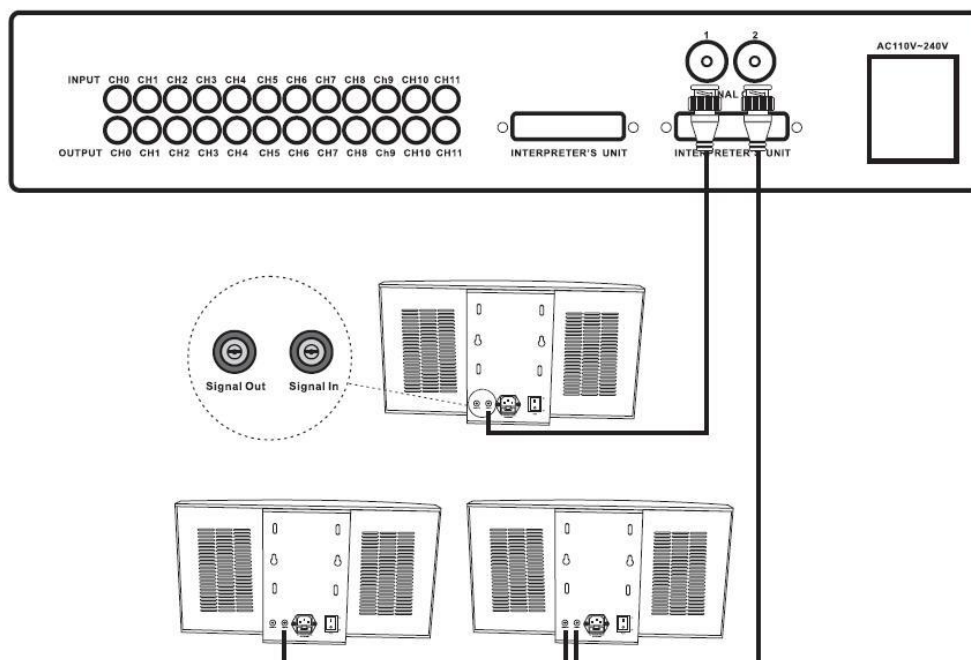
2.5.4 Connect interpreter console

There are two 25P-DIN connectors (IN & OUT) for connecting the interpreter console to the transmitter and loop-through connection to other interpreter consoles, the first one is from transmitter 25P-DIN connector labeled interpreter unit to the interpreter console 25P-DIN connector labeled IN.

The standard interpreter cable length from transmitter to the first interpreter console is 10 meters, and cable length for each interpreter console is 3 meters.
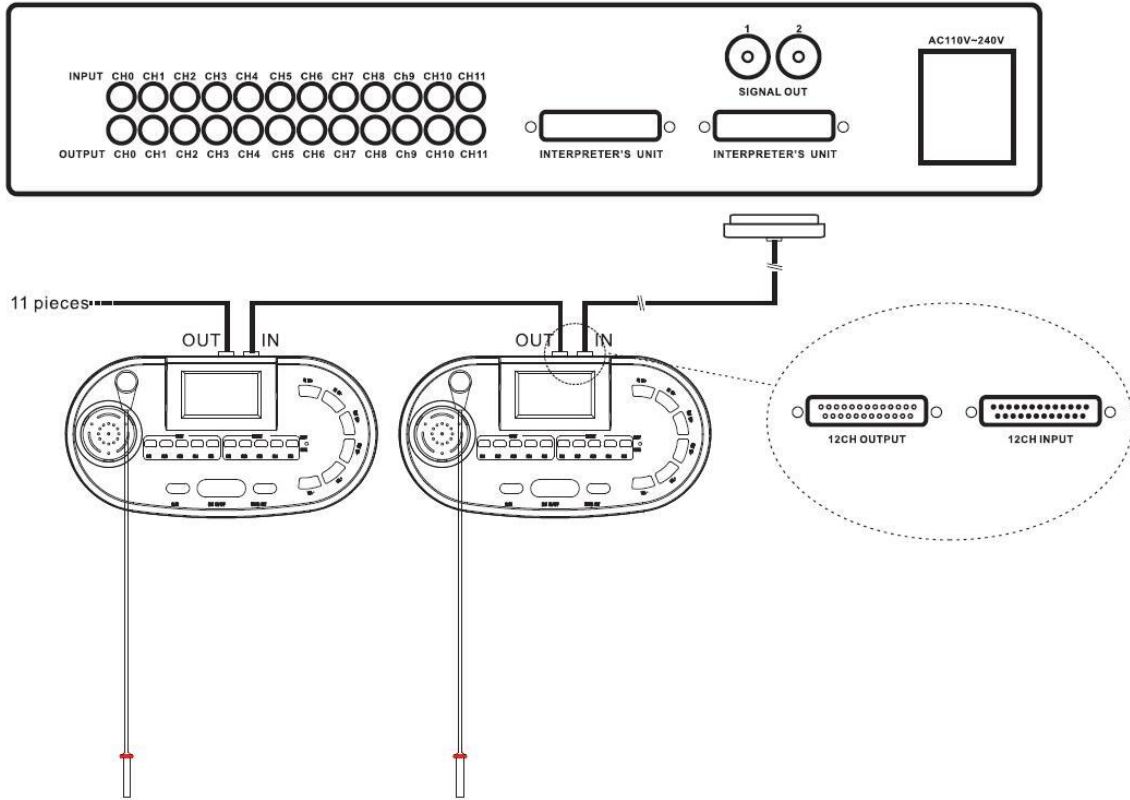
2.5.5 Connect other external audio sources

The transmitter has up to 12 audio inputs/outputs (depend on the transmitter type) to interface with external asymmetrical audio sources, such as congress system, music distribution. The audio signals are connected to the audio input RCA connectors
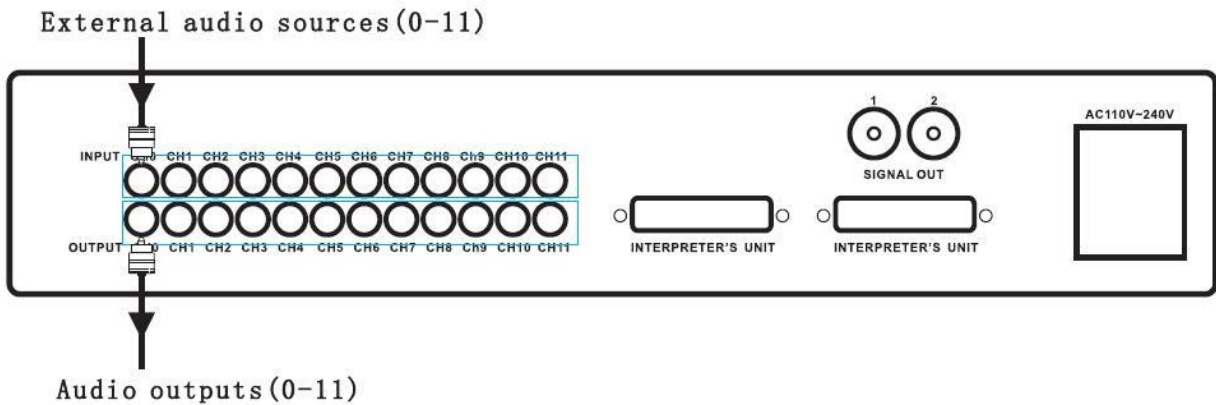
2.6 Installation of radiator

2.6.1 Installation of radiator with bracket

For wall mounting, an extra wall bracket is required. This bracket is attached to the wall by means of 2 bolts.
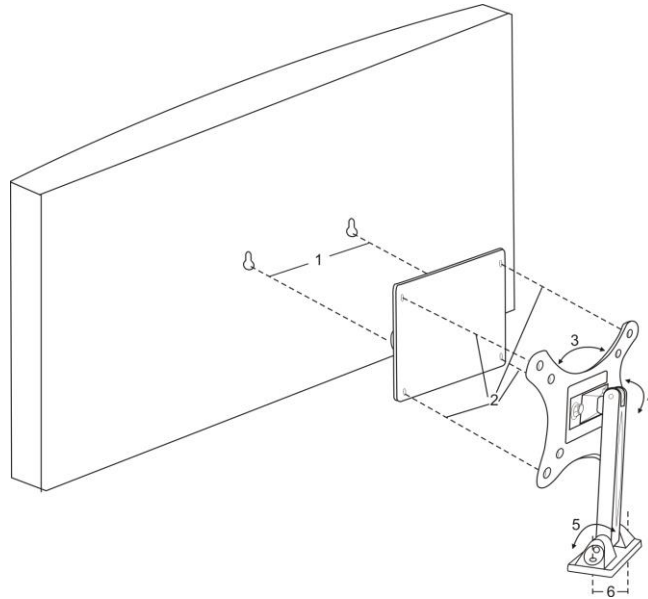
  a. Fix the bracket on the wall (Figure 6)

  b. Fix the bracket with shim (Figure 2)

  c. Fix the shim to radiator (Figure 1)

◆ Way to debug angle

  a. Debug with figure 3: 120°

  b. Debug with figure 4: 360°

  c. Debug with figure 5: 120°

➢ After mounting and debug the IR radiator, be certain that they are securely fastened

2.6.2 Caution item

a. Infrared operating distance varies depending on the color of the ceiling and walls.

b. Noise may be generated by interference regardless of the operating distance between the IR receiver and radiator; in this case, move radiator away from infrared-emitting objects.

c. Block direct sunlight from the unit using curtains or blinds.

d. Install the radiator more than 50cm from fluorescent lamps.

e. In addition, if the IR radiator units are installed near the infrared-emitting sources list below, the system may malfunction or noise may be generated. When installing the IR radiators, take care to avoid placing them near the following infrared-emitting and noise sources:

● Lighting equipment

● Projector (liquid crystal, DLP), OHP, incandescent bulbs

● Mercury lamp, halogen lamps, and inverter fluorescent lamps

● Plasma displays

● Infrared devices such as the remote control, infrared microphones and infrared LAN

● Dimmer controls

● Digital equipment like the digital power amplifier and cable wiring to this.(such as speaker output

wiring of the digital power amplifier)

2.7 Installation of interpreter console

2.7.1 Mounting and dismounting the microphone
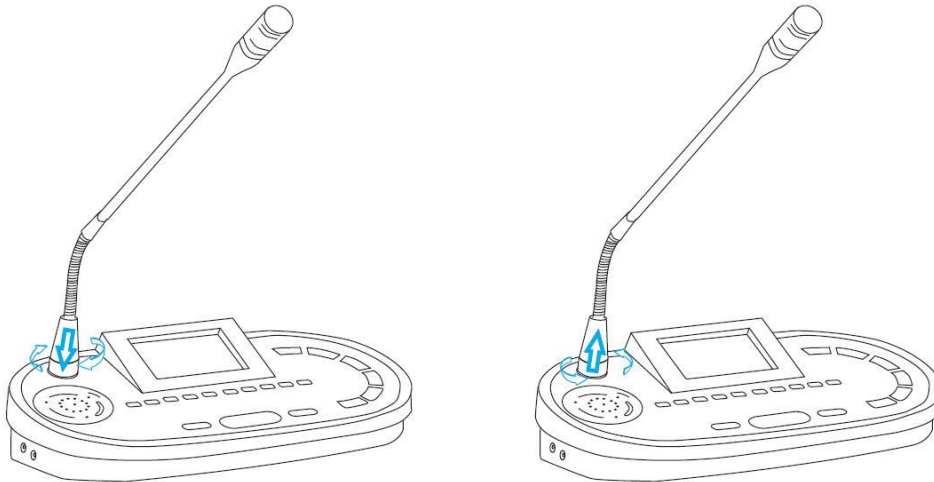
a. Mounting microphone: Insert the microphone into the microphone mounting socket in a straight line, and then rotate the microphone clockwise to fasten it securely.

b. Dismounting microphone: Rotate the microphone counterclockwise, then pull the microphone upward to dismounting

2.7.2 Connect headset to interpreter console
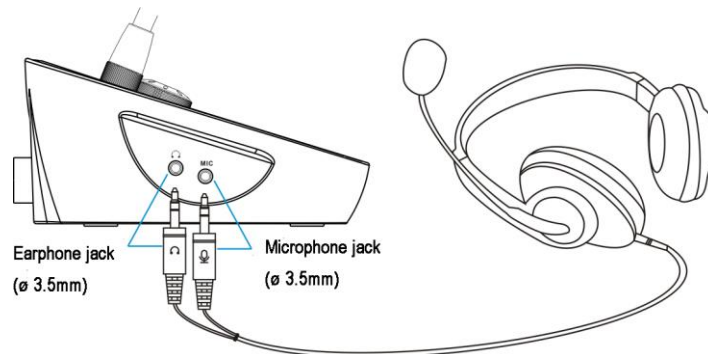
Earphone jack (ø 3.5mm)   Microphone jack (ø 3.5mm)

◆ Earphone jack (ø 3.5mm): Insert 3.5mm earphone plug to this jack, when this plug connect, interpreter console's microphone will be in mute status automatically.

◆ Microphone jack (ø 3.5mm): Insert 3.5mm microphone plug to this jack, when this plug connect, interpreter console's inner speaker will be in mute status automatically.

**2.8 Installation of infrared receiver**

2.8.1 Battery install

1. Please unlock the cover with dedicated key
2. Remove the battery cover
3. Put 3 AAA 1.2V NI-MH batteries into the case, but please make sure the battery polar is correct

   Note: Please don't make the battery polar wrong, it would be damaged electronic component inside the receiver
4. Fix the cover and with dedicated lock/unlock key
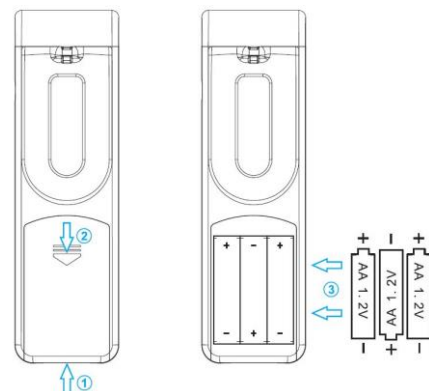
2.8.2 Connect earphone to receiver

Earphone jack (ø 3.5mm): Insert 3.5mm earphone plug to this jack directly.

2.9 System setting and operation

2.9.1 On/Off the transmitter

Turn on the transmitter: Please connect the power cable and turn on the transmitter with power switch, transmitter power LED will lighting.

Turn off the transmitter: Please turn off the transmitter with power switch, transmitter power LED will off.

2.9.2 Interpreter Console

Please connect interpreter consoles to transmitter and turn on the power before setting.
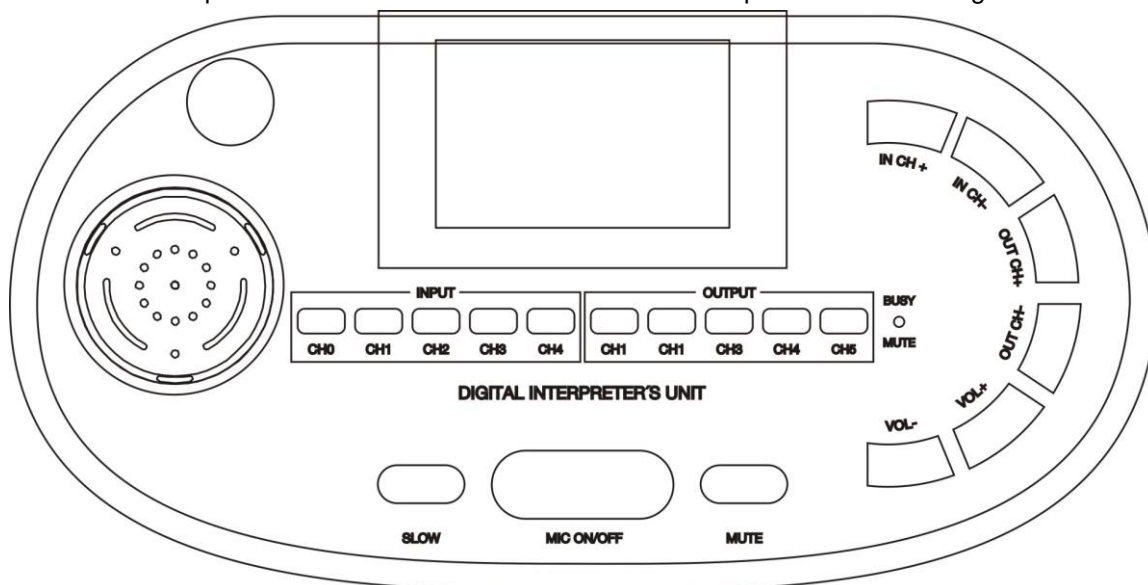
✓ **On/Off the interpreter**

Turn on the transmitter: There are two 25P-DIN connectors for connecting the interpreter console to the transmitter and loop-through connection to other interpreter consoles, turn on the transmitter power, the interpreter LCD is lighting

Turn off the interpreter: Please turn off the transmitter with power switch; the interpreter console will be off.

✓ **Monitor channel setting**

Input channel (Interpreter monitor channel, display **CH IN**) is from 00 to 11. There are two options for monitor type: Interpreter inner speaker and earphone, Monitor volume can be adjusted by volume button on the interpreter

Set: To select monitor channel, please press input fast key (CH0-CH4) button "**CH IN +**" or "**CH IN-**", and adjusted the volume by volume knob.

✓ **Output channel setting**

Output channel (Interpreter translate channel, display **CH Out**) is from 01 to 12. There are two options for output type: Interpreter microphone and external microphone, **"Mic ON/OFF"** button control the on/off status no matter it's the interpreter microphone or external microphone.

✓ **Set Channel language**

Operator can set the language of each channel: Hold and press input CH0+CH2, LCD will display "CH & LAN set", then press input CH0 or CH1 to select the channel, then press input CH2 or CH3 to select the language of this channel, after setting, press input CH 4 to save and exit.

Interpreter support following language display:

a. N/M: not display any language
b. CN-Chinese
c. UK-Ukrainian
d. TR-Turkish
e. TH-Thai
f. SV-Swedish
g. SR-Serbian
h. RU-Russian
i. RO-Romanian
j. PT-Portuguese
k. PL-Polish
l. NO-Norwegian
m. NL-Dutch
n. KO-Korean
o. JA-Japanese
p. IT-Italian
q. HU-Hungarian
r. HR-Croatian
s. FR-French
t. FI-Finnish
u. ES-Spanish
v. EN-English
w. EL-Greek
x. DE-German
y. DA-Denish
z. AR-Arabic

After setting the language , LCD will display the out/input language of each channel.

✓ **LCD contrast setting**

Hold and press INPUT (CH0+CH1), LCD will display "contrast setting" , press input CH0 or CH1 to decrease or increase LCD contrast, after setting, press input CH 4 to save and exit.

✓ **On/Off the interpreter**

Turn on the transmitter: There are two 25P-DIN connectors for connecting the interpreter console to the transmitter and loop-through connection to other interpreter consoles, turn on the transmitter power, the interpreter LCD is lighting

Turn off the interpreter: Please turn off the transmitter with power switch; the interpreter console will be off.

✓ **Monitor (Input channel)**

Input channel (Interpreter monitor channel, display **CH IN**) is from 00 to 11. Channel 00 is for floor language, channel 01 to 11 is for monitor other interpreter's output audio. There are two options for monitor type: Interpreter inner speaker and earphone, the console's inner speaker will be in mute status automatically when earphone connected. Monitor volume can be adjusted by volume button on the interpreter

✓ **Interpreter microphone on/off**

Turn on the microphone by press the button (MIC ON/OFF), the red indicator is on, interpreter can make a speech. Press the button again, the red indicator is off, interpreter microphone is off. There are two options for output type: Interpreter microphone and external microphone.

✓ **Mute function**

This button is used for prevention on interpreter's cough. When interpreter press and hold this button, microphone will be off, and microphone will be on again after release this button.

✓ **Slow function**

When the delegate is speaking too fast, press this button (microphone of the interpreter unit must be active) to remind him/her to slow down)

2.9.3 Infrared receiver

✓ **On/Off the receiver**

Turn on the receiver: Put three AAA 1.2V NI-MH batteries into the receiver, but please make sure the batteries are full charged and the polar is correct. Pressing the On/Off button switches the receiver on, LCD will display channel, and an antenna symbol is visible when the receiver picks up an infrared signal of adequate quality. Pressing the On/Off button switches the receiver off.

✓ **Channel/volume debug**

Select channel: An up/down switch to select an audio channel or volume. The channel number (0-11 channels) and volume level is shown on the LCD display.
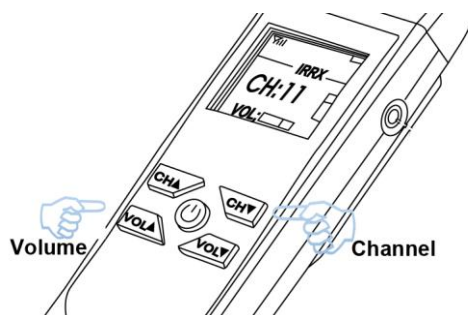

✓ **Battery capacity warning**

A battery symbol is visible on the LCD, and the symbol will flashing when the batteries are almost empty, please change or change the battery.

2.9.4 Charging unit

The charging units can recharge up to 24 receivers at one. The charging unit contains the power supply with automatic voltage selection. The charging electronics and a charging indicator LED are integrated in each receiver. The charging circuitry checks if a battery pack is present and controls the charging process.

Ensure that the charging unit is connected to the power and that it is switched on. Place the receivers firmly in the charging compartments. The charging indicator should illuminate. The indicator show the charging status of each receiver:

Red LED flashing –Charging in progress; Green LED –Full Charged
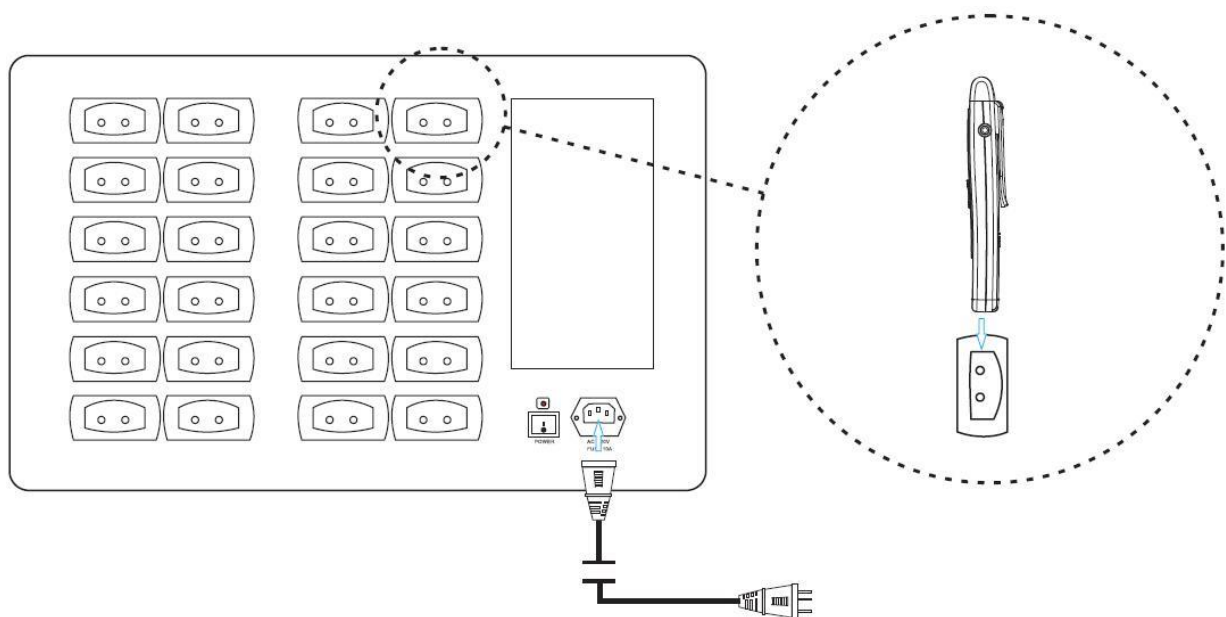
Notice!
➢ It is preferred to switch on the charging unit before inserting the receivers. Receivers can be inserted or removed without damage while the charging unit is switched on.
➢ Charge the batteries to full capacity before using them for the first time.
➢ The charger always applies fast charge during the first 10 minutes after inserting a receiver. Inserting the receiver multiple times with fully charged batteries should therefore be avoided, as this will damage the batteries.
➢ Continuously charging the racier will not damage the receiver or batteries. Receivers can therefore safely be left in their charging positions when they are not used.

3. Troubleshooting

In this section a simple fault-finding guide is given. This is intended to be used to remedy the consequences of incorrect installation. If more series faults or problem arise the installer should contact a qualified technician

Problem	Actions
Transmitter power LED does not light up:	♣ Check that the power supply to the transmitter is connected and that the transmitter is switched on.
No IR signals:	♣ Ensure that connections to all radiators have been made correctly and that each radiator's power supply is connected and switched on ♣ Examine the Radiator LEDs.
Infrared receiver fails to function properly:	♣ If disposable batteries are used, check whether the batteries have sufficient capacity and whether they are inserted with the correct polarity. ♣ If batteries are used, ensure that the batteries are fully charged. ♣ Ensure that the headphone is connected properly. ♣ Ensure that the receiver picks up sufficient IR signal and check whether the antenna symbol becomes visible. ♣ Ensure that the volume control is turned up.
Receiver discharges very quickly:	♣ Replace the batteries and check whether the problem is resolved

Caution:

Please prevent the equipment dripping by water, do not put the liquid articles such as vase on the equipment.

The power switch of the equipments is monopole; please pullout the plug if the will not be used for a long time. The switch has already been turn on when the power indicator lamp is on, and the switch has already been turn off when the power indicator lamp is off.

This machine has no maintain part, for preventing electric shock from being dangerous, do not turn on the machine cover without permission. If need to maintain, please contact sale agent.

The appearance of the products is subject to material object; we remain the right to modify any issue without notice in advance.