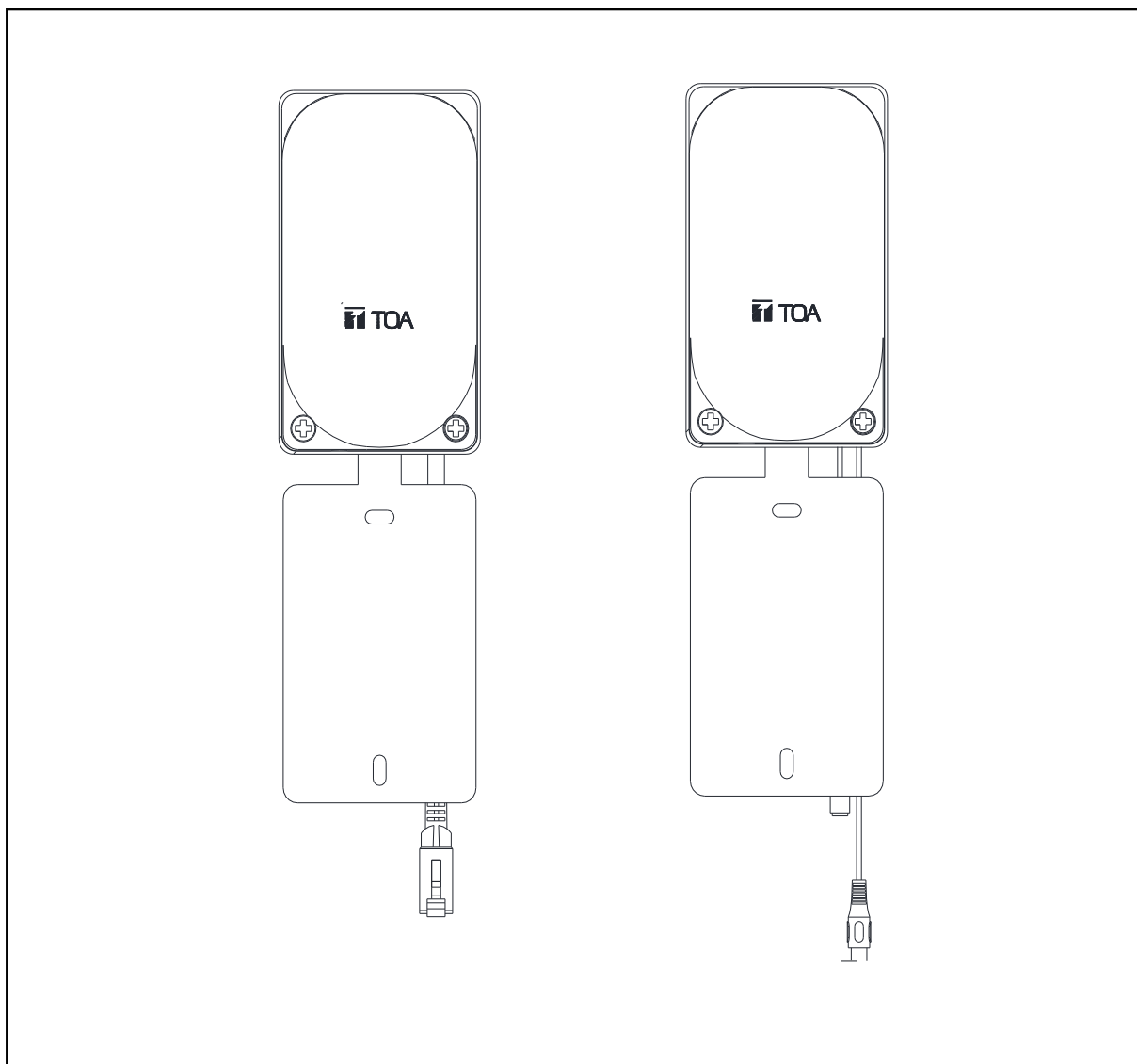




OPERATING INSTRUCTIONS

1CH INFRARED WIRELESS RECEIVER

IR-701T
IR-701TA



Thank you for purchasing TOA's 1CH Infrared Wireless Receiver.

Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment.

TOA Corporation

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SAFETY PRECAUTIONS

- Before installation or use, please read the instruction in this section for safety.
- Please follow all the precautionary instruction in this section which contains important warning / cautions regarding safety.
- After reading, please keep this manual for future reference.

About the content

To ensure the correct use of the product or preventing misbehavior leading to casualties or property loss, please read the precautions in this section before using the product.

About signs

Signs of forbidden			Must sign	
				
No disassemble	Prohibited	No touching	Must	Unplug



WARNING

Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.

WHEN USING OR INSTALLING THE UNIT

Avoid making the appliance wet

Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.



Prohibited

Use only the specified voltage

Use the unit only with the voltage specified on the unit. Using a voltage higher than that which is specified may result in fire or electric shock.



Prohibited

Do not damage the power cord

Do not cut, kink, otherwise damage nor modify the power supply cord. In addition, avoid using the power cord in close proximity to heaters, and never place heavy objects -- including the unit itself -- on the power cord, as doing so may result in fire or electric shock.



Prohibited

Place the appliance on a stable surface

Do not place the appliance on slope which may cause the appliance slip over and cause injury or property loss.



Prohibited

Confirm the structural safety of the location placing the appliance

Place the appliance on a surface that can support its weight. Otherwise injury or property loss may be caused by the falling of appliance.



Must

Avoid outdoor usage

This appliance is designed for indoor use.
Expose the appliance to rain may result in electric shock.



Prohibited

Follow the installation instruction

Please follow the installation instruction when installing the appliance. Otherwise injury or property loss may be caused by mis-installation of the appliance.



Prohibited



WARNING

Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.

OPERATION & USAGE

Use appropriate screws

Use screws that are appropriate for the wall's structure and composition.

Failure to do so may cause the unit to fall, resulting in material damage and possible personal injury.



Must

Tighten each screw securely

Ensure that the unit has no loose joints after installation to prevent accidents that could result in personal injury



Must

Use designated installation materials.

Use the designated installation material or brackets to prevent accidents that could result in personal injury.



Must

In case of abnormal condition

Should the following irregularity be found during use, immediately switch off the power, disconnect the power supply plug from the AC outlet and contact your nearest TOA dealer. Make no further attempt to operate the unit in this condition as this may cause fire or electric shock.

- If you detect smoke or a strange smell coming from the unit.
- If water or any metallic object gets into the unit.
- If the unit falls, or the unit case breaks.
- If the power supply cord is damaged (exposure of the core, disconnection, etc.)
- If it is malfunctioning (no tone sounds.)



Unplug

Make no modification or remove the unit case

To prevent a fire or electric shock, never open nor remove the unit case as there are high voltage components inside the unit. Refer all servicing to qualified service personnel.



No disassemble

Do not place objects other than appliance parts inside the appliance.

Appliance includes metal and flammable parts. Inserting objects other than appliance parts as this may cause fire or electric shock.



Prohibited

Do not touch a power supply plug during thunder

Do not touch a power supply plug during thunder and lightning, as this may result in electric shock.



No touching

Do not use the appliance near medical appliances.

The electromagnetic wave emitted by the unit may cause potential interference.
The power of the unit must be cut off.



Prohibited



CAUTION

Indicates a potentially hazardous situation which, if mishandled, could result in personal injury or property damage.

Never plug in nor remove the power supply plug

Never plug in nor remove the power supply plug with wet hands, as doing so may cause electric shock.



Prohibited



CAUTION

Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and / or property damage.

WHEN THE UNIT IS IN USE

Only use the AC adapter comes in the same package (IR-701T)

Use only the AC adapter comes with IR-701T.

Using non suggested power adapter may cause a fire or electric shock.



Prohibited

Only connected to the specified equipment (IR-701TA)

When using IR-701TA, only connect it to SA-112 amplifie

Connecting IR-701TA to other equipment may cause equipment damage or other problems.



Must

Do not pull the power cord

When unplugging the power supply cord, be sure to grasp the power supply plug; never pull on the cord itself. Operating the unit with a damaged power supply cord may cause a fire or electric shock.



Prohibited

Remove power cord when moving the unit

When moving the unit, be sure to remove its power supply cord from the wall outlet. Moving the unit with the power connected to the outlet may cause damage to the power cord, resulting in fire or electric shock.



Unplug

Do not place the equipment in dusty or humid locations.

Avoid installing the unit in humid or dusty locations, in locations exposed to the direct sunlight, near the heaters, or in locations generating sooty smoke or steam as doing otherwise may result in fire or electric shock.



Prohibited

Avoid placing heavy object on top of the equipments.

If they accidentally spill into the unit, this may cause personal injury, and / or property damage.



Prohibited

Turn the volume to the minimum level before switching on the appliance.

Without muting the volume before switching on the appliance may results in loud volume and causes damage to hearing.



Must

Clean the plug and socket regularly

Clean the power plug and socket regularly and be sure the plug is tightly attached to bottom of the socket. otherwise may result in fire or electric shock.



Must

During maintenance or idle for long period of time

Turn of the appliance and unplug the power supply cord. otherwise may result in fire or electric shock.



Unplug

GENERAL DESCRIPTION

The system include infrared wireless hand-held microphone and 1 CH combined type infrared receiver.

IR-701TA is specialized for SA-112 amplifier.

FEATURES

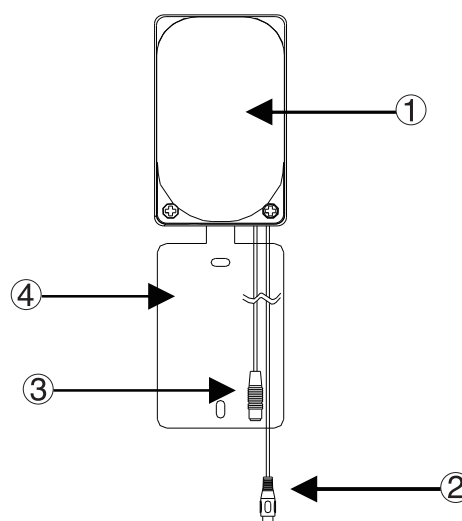
- The microphone system's infrared transmission eliminates problems with interference or eavesdropping.
- Can be used in classrooms or conference rooms which are without windows.
- Low echo and unidirectional microphone is deployed for high clarity.
- IR-701TA and SA-112 amplifiers are only connected by 1 RJ45 cable.

HANDLING PRECAUTIONS

- **Installation precautions (causes of interference and noise)**
When installing the receiver, keep it at least 50 cm (1.64 ft) away from the fluorescent lighting. Avoid putting the audio signal cable and AC-DC power cord together with other power cables.
- **Do not cover the infrared wireless microphone's infrared emitter with the hand or hide the microphone by placing it inside clothes.**
Covering the infrared emitter will disable light transmission.
- **Do not use the system with plasma TV and infrared LAN which emit infrared signal or noise and interference maybe caused.**
- **The system cannot be used in outdoor areas or locations with direct sunlight.**

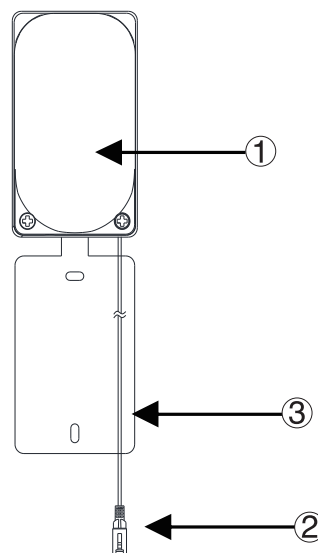
● IR-701T RECEIVER

- ① Infrared signal receiver
- ② RCA audio output
- ③ DC Jack (AC adapter input)
- ④ Wall mount bracket



● IR-701TA RECEIVER

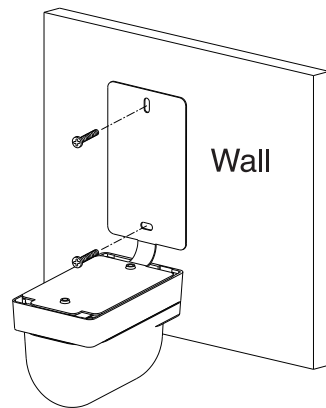
- ① Infrared signal receiver
- ② RJ45A LAN cable
- ③ Wall mount bracket



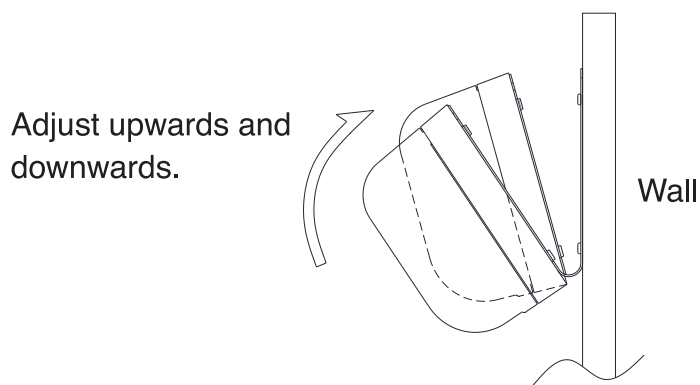
INSTALLATION

● Installation of wall mount receiver

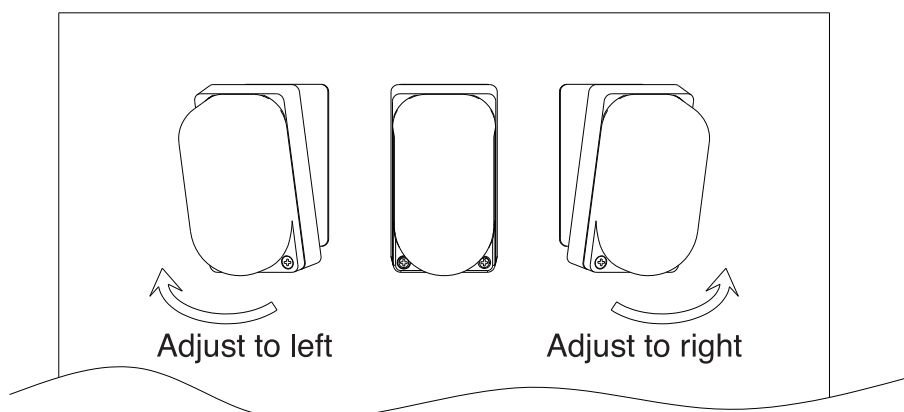
1. Wall mount bracket can be bended by 90 degree.
2. Face the receiver down, install the bracket to wall by screw.



3. Hold the receiver and bend the bracket upwards. Adjust the receiver to appropriate angle to make the receiver's front position face the venue.



4. Hold the receiver and perform fine tune on right or left. (Horizontal adjustable angle is $\pm 10^\circ$)



BEFORE OPERATION

- Install the receiver 5-10m away from the microphone where the receiver should be within visible range.
(The ideal installation height is 2-3m from the floor)
- The front position of the receiver most sensitive to infrared signal.
Please adjust the receiver allowing it to face the microphone.
- Direct sunlight can cost noise and interrupt infrared signal causing in-continuous voice. Please avoid direct sunlight during installation

OPERATION AND USAGE

1. IR-701T audio output is to be connected to amplifier's line level input terminal, aux in terminal, etc. (Use RCA pin cable for connection)
2. IR-701TA output terminal (RJ45 cable) requires to connect to SA-112 amplifier's infrared input terminal. (For extension, please purchase UTP CAT5 cable or equivalence.) Turn on SA-112 amplifier and check the power indicator of receiver lighted green or not.
3. Adjust the amplifier or mixer volume to an appropriate level.
* No volume control on the receiver.

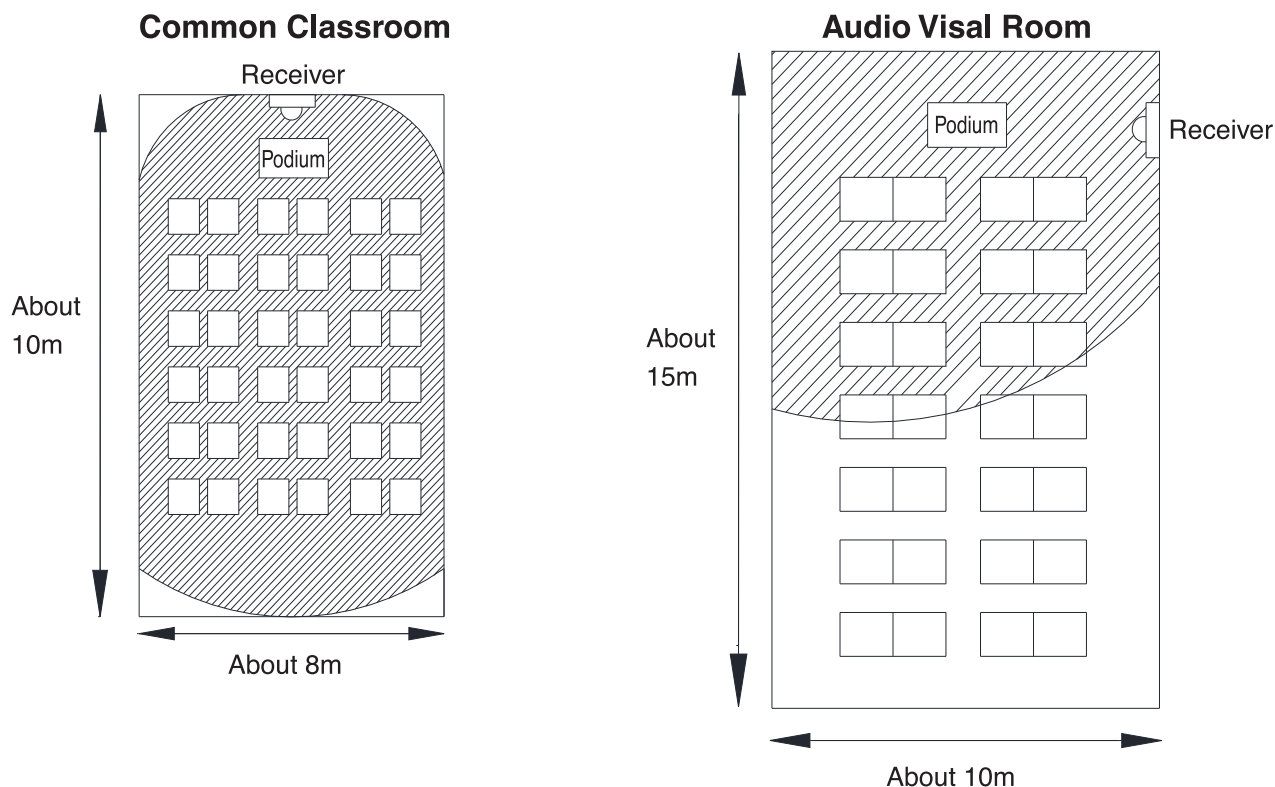
ATTENTION

- Please use the AC adapter comes with IR-701T in the same package. Do not use AC adapter not recommended by TOA dealers.
- IR-701TA can only connected to SA-112 and cannot be used on other equipments.
(Connection cable uses CAT5 UTP or equivalence.)

USAGE TIPS

- **Distance between mouth and microphone**
Keep a distance of 5 cm between microphone and mouth when speaking.
- **Distance between microphone and receiver**
The best receiving range between the microphone and receiver is within 10 meters.

Application Example



ATTENTION

Examples above are for reference only, actual application varies according to the venue.

TROUBLESHOOT

SYMPTOM	CAUSE	REMEDY
Battery indicator does not light when the power switch is turned on.	Noise or discontinue of voice occurs.	Reinsert batteries correctly
	Batteries exhausted	Replace the charged rechargeable batteries for the infrared wireless microphone.
Infrared wireless receiver's reception indicator does not light.	The DC jack is not connected to the AC adapter.	Connect the DC Jack with the AC adapter.
	The AC adapter is not connected to power.	Connect the AC adapter to power.
	The receiver is not connected to the SA-112. / The SA-112 is not connected to power.	Connect the RJ45 cable to the SA-112 and switch on the power of SA-112.
The receiver's LED has no change(Green→Orange) when the microphone is switched on.	The receiver is not installed within the transmission range of the microphone.	Install the receiver within the transmission range of the microphone.
Noise or discontinue of voice occurs.	The microphone is beyond the suggested range of usage.	Please use the microphone within 10 meters from the receiver.
	The angle of receiver cannot cover the microphone transmission range.	Re-adjust the receiver's horizontal / vertical angle to make sure it is in the transmission range of microphone.

SPECIFICATION

■ IR-701T

Type	Combined type infrared receiver
Power Source	AC 220-230V 50Hz (Specialized AC adapter)
Power Consumption	Under 2W
Carrier Frequency	3.10MHz
SQ Sensitivity	30dB μ V
Audio Output	+8dBV Max.(UNBALANCE)
Audio Output Terminal	RCA Pin Jack
Operation Temperature	0 ~ 40°C
Finish	Control Section:ABS resin, metallic gray, 50% gloss, paint Filter Section: Polycarbonate, optical cut filter
Weight	About 300g

Note: The design and specifications are subject to change without notice for improvement.

● ACCESSORIES

SPECIALIZED AC ADAPTOR1

OPERATING INSTRUCTION1

■ IR-701TA

Type	Combined type infrared receiver
Power Source	AC 15V (Powered by SA-112 amplifier)
Power consumption	Under 2W
Carrier Frequency	3.10MHz
SQ Sensitivity	30dB μ V
Audio Output	+14dBV Max.(BALANCE)
Audio Output Terminal	RJ 45 Cable
Operation Temperature	0 ~ 40°C
Finish	Control Section:ABS resin, metallic gray, 50% gloss, paint Filter Section: Polycarbonate, optical cut filter
Weight	About 300g

Note: The design and specifications are subject to change without notice for improvement.

● ACCESSORIES

RJ45 CONNECTION PLUG1

OPERATING INSTRUCTION1

