



**Wireless distributor system &
antenna amplifier system guide**

ITWMIC-AS-1

POWERING ON/POWERING OFF THE SYSTEM



Last powered on

To avoid damaging internal components, the amplifier should be the last component in your system to be powered on.



First powered off

To avoid damaging internal components, the amplifier should be the first component in your system to be powered off.

CONNECTING ANTENNA CABLES

Accidentally connecting the center cable pin (power supply) to the cable housing (ground) may cause internal component damage. Use caution when installing cables.

SAFETY INFORMATION

! IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer'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. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or 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. Only use attachments/accessories specified by the manufacturer.
12. USE only with a 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 lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. 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 expose the apparatus to dripping and splashing. Do not put objects filled with liquids, such as vases, on the apparatus.
16. The MAINS plug or an appliance coupler shall remain readily operable.
17. The airborne noise of the apparatus does not exceed 70dB (A).
18. Apparatus with CLASS I construction shall be connected to a mains socket outlet with a protective earthing connection.
19. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
20. Do not attempt to modify this product. Doing so could result in personal injury and/or product failure.



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

WARNING: Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel. The safety certifications do not apply when the operating voltage is changed from the factory setting.

ANTENNA DISTRIBUTION SYSTEM

Allocator is one who has a magnification of UHF antenna distribution system, it can be split by a pair of antenna for wireless receiver to expand the function of the wireless microphone system. It will also be able to enlarge RF signal to compensate for it will be assigned to multiple output signal power joint caused by insertion loss. Each wireless frequency divider are allowed four receiver to share one antenna. Can be able to connect to the fifth receiver or the second antenna distributor. Also has electrical connection energy level joint for power supply of UHF wireless receiver system.

Each system includes the following parts:

- Antenna distribution system
- 18 inches of the side output powerline
- The power cord
- Antenna cable for connecting the receiver

Ensure maximum sensitivity and signal processing ability, supply for the widest range of radio frequencies to the wireless receivers. To full use of the function of this system, please follow these guidelines to perform

- If install the antenna for remote location, using extension and multiple transmitter should be placed in distance receiving antenna 3 meters (10 feet) away.
- The standard configuration is 3 meters of connecting cable between antenna splitter and directional antenna, if over 25 meters for use, it need to be add antenna amplifier box to contact the most 30 meters of cable. The total length of cable can reach 55 meters.

System function

Extension ability: UHF antenna system dedicated to large UHF wireless system, each unit can make four wireless receiver using the same two antenna, cascade port can connect to the fifth receiver second distributor.

Compatibility: distributor can work with compatible frequency range of all wireless microphone receiver.

Cascade port: Two 50ΩBNC type antenna cascade port can connect an unit of a distributor or fifth wireless receiver. Large wireless system can work in the case of using a pair of antenna.

Output power and output connector: Up to five receiver for chain link, and through the power supply output connector from a single power supply.

Low noise and intermodulation distortion: Maintain clear signal, minimum distortion degree.

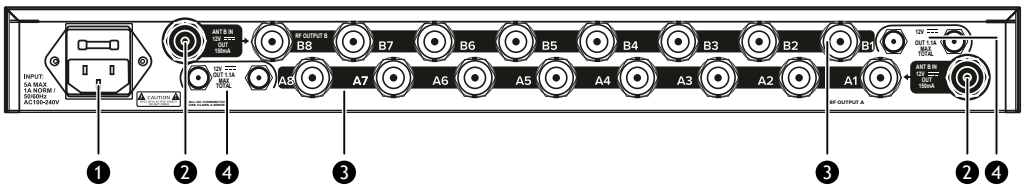
Insertion loss compensation: When the signal split among multiple output ports, the signal intensity will attenuate, then the distributor can enlarge signal compensation, to ensure providing strong signal for the receiver.

CONTROLS AND CONNECTORS

Front Panel



Back Panel



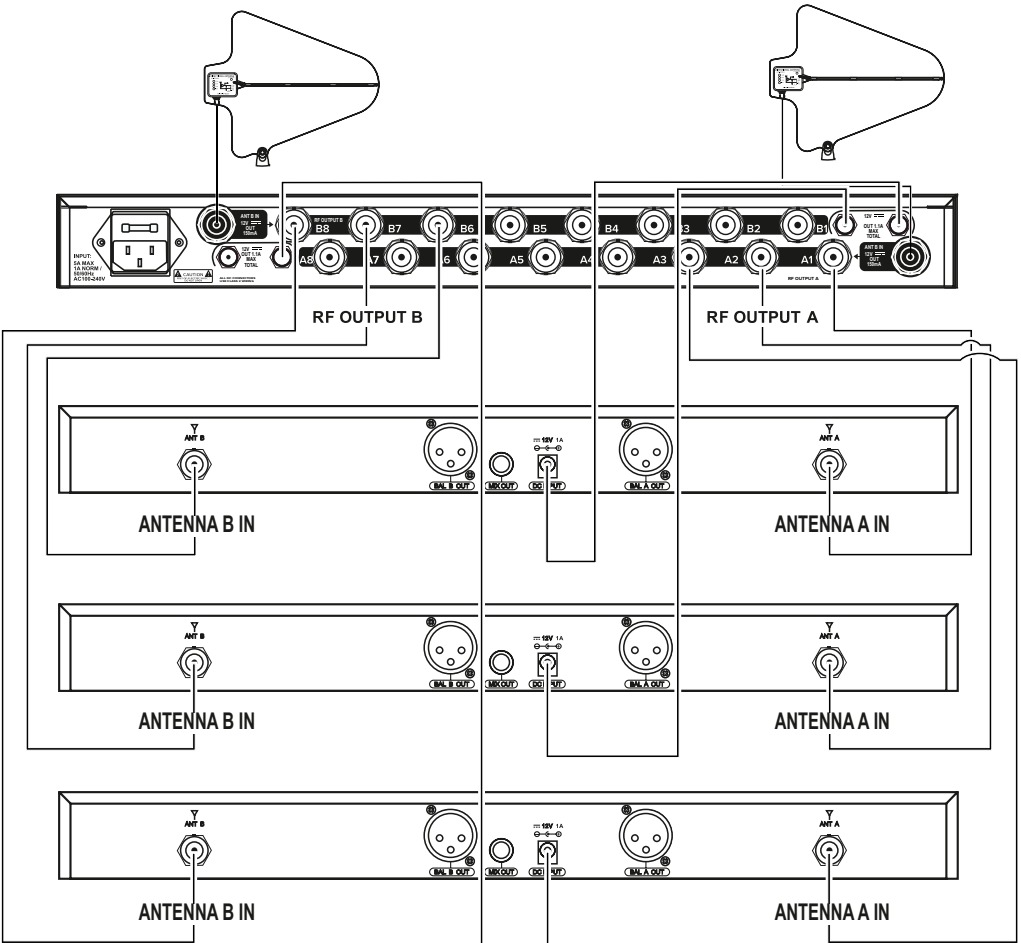
1. AC Power INPUT Connector.
2. ANTENNA IN Ports, Channel A & B. BNC-type connectors for antennas.
3. RF OUTPUT Connectors, Channel A & B. BNCtype connectors for up to four wireless receivers.
4. Power output connector.

CONNECT THE RECEIVER

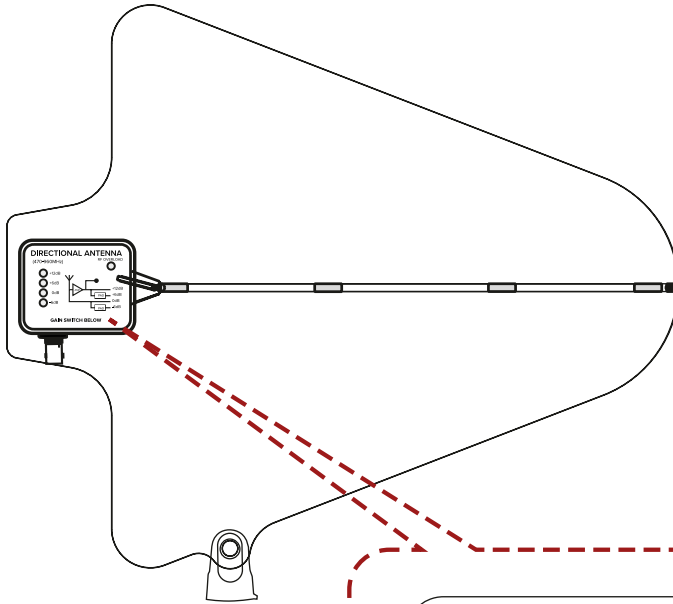
The location of the single receiver

1. Using low loss 50Ωcoaxial cable distributor on the left and right side (channell to 4, Aand B) RF output port which is connected to each receiver's antenna input of the left and right side. Use cascade port to connect the fifth receiver.
2. Use the power cord, the distributor is connected to the power socket.
3. Chain the receiver with the output power cables together, distributor output connector shall be with the receiver input connectors. Use the same way to connect the rest of the receiver. Connect the power input of the equipment to the power supply.

Note: one chain link can be divided into top to four UHF receiver power supply.



Single setup



Directional antenna

Directional antenna uses a log periodic dipole array to offer enhanced reception when directed toward the desired coverage area. An integrated amplifier compensates for coaxial cable signal loss. Can be mounted on a microphone stand, suspended from the ceiling, or mounted to a wall using the integrated swivel adapter bracket. It is weather resistant for use outdoors.

Features

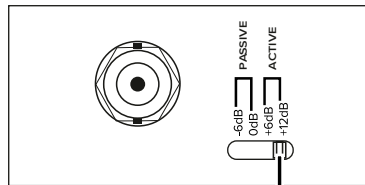
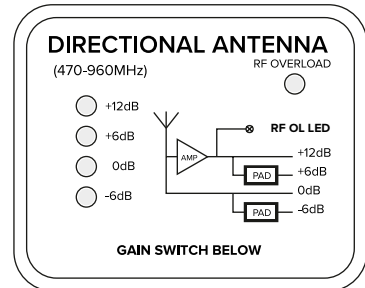
1. Low-noise signal amplifier compensates for insertion loss in coaxial cable
2. Compatible with all brand true diversity and wireless diversity receiver system. Integrated threaded adapter mounts easily to microphone stands.

Installation

1. Connect the directional antenna to the receiver or antenna distribution system. Use the original low-loss coaxial antenna cable.
2. Note that the quality of the cable, not just the length, contributes to signal loss. Lighter-grade 50 foot cable may require more gain than a 100 foot, low-loss cable.
3. Direct the antenna toward the intended coverage area.

To maintain top performance

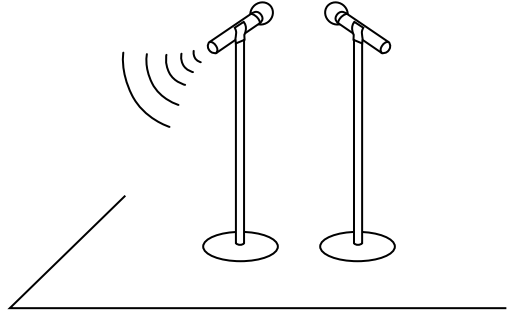
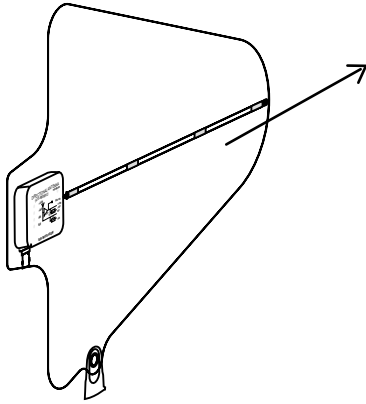
1. Avoid sharp bends or kinks in the cables
2. Do not deform cables with makeshift clamps, such as bending a nail over the cable
3. Do not use in permanent outdoor installations
4. Do not expose to extreme moisture.



Receiving sensitivity setting

Receiving sensitivity setting

There the (-6dB, 0dB, +6dB, +12dB) four level for select, Choose (+12dB) the maximum sensitivity, and choose (-6dB) is the minimum sensitivity.



Ant-enna Placement

Use the following guidelines when mounting antennas:

1. Antennas and receivers must be from the same band.
2. Mount antenna at least one wavelength (two feet) apart.
3. Position antennas so there is nothing obstructing a line of sight to the transmitter (including the audience).
4. Keep antennas away from large metal objects.

Using tips

Always perform a “walk around” test to verify coverage before using a wireless system during a speech or performance. Experiment with antenna placement to find the optimum location. If necessary, mark “trouble spots” and ask presenters or performers to avoid those areas.

Technical Parameters

RF frequency range: 530-690MHz

Power requirements:

Remote 12 Vdc from coaxial cable connection to receiver or antenna distribution system, 0.68-0.81 W

Reception pattern:

Cardioid: 3 dB beam Width: 100 degrees

Antenna gain: On Axis: 7dB typical

Third order intercept point (3OIP): > 30 dBm (at output)

Connector: Input and output: Female, BNC-type

