

Relacart TAC4 IEM transmitter antenna combiner distributes DC power and RF signal for up to four IEM transmitters, which significantly reduces the amount of antennas and power supplies needed when using multiple systems.

### Features

- Reduction of intermodulation artifacts for cleaner RF environment.
- Wideband operation (470-940 MHz).
- Provide DC power to compatible IEM transmitters.
- RF indicator of signal preset.

### Operating Guide

Multiple wireless IEM transmitters of different frequency ranges can be connected together for use within the working frequency range of TAC4.

Correctly connect the device to AC power.

Connect the antenna output the IEM to the antenna input port of TCA4 with BNC cable.

Connect the IEM transmitter DC input socket to TAC4 DC power output 1 to 4 sockets with the standard DC power cable .

Use BNC coaxial cable to connect to a Relacart passive antenna that matches the RF operating range. (Excessive length of BNC coaxial cable will produce additional signal attenuation)

It can be used with passive directional antenna or passive omnidirectional antenna.

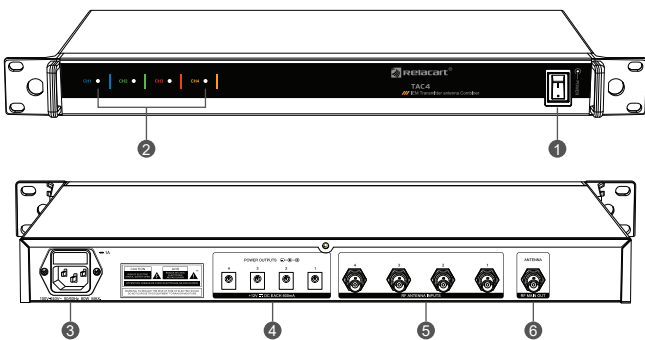
Turn on the power switch. When the connection is normal, the indicator light on the corresponding channel panel will light up. When there is no connection, the indicator light will turn off.

### Power Supply Connection

Internal 100-240v, 50/60Hz switch type power supply can automatically adjust to proper voltage. No need to do special setup. A standard AC power cable is use.

★ Caution: It might cause electric shock when opening the case of the antenna divider. The repairment must be done under skillful repairment specialist with specific knowledge. The device must be kept away from rain and moist environment. The internal electric circuits have been precisely adjusted to reach the best using performance and strictly match the working regulations. Please do not try to open the case, otherwise the warranty will be lost and might cause bad operations.

### Function Introduction



- 1 POWER switch (with indicator light).
- 2 LED Indicators: RF signal indicator of each channel.
- 3 Power Input Socket: Standard IEC socket, connected to 100-240V 50/60Hz AC power supply.
- 4 DC power output: Each group can provide +12V/1A (MAX) DC output to supply power to 4 compatible transmitters.
- 5 BNC RF input interface: Connected to up to 4 IEM transmitter outputs. Each set should be separately connected to a antenna connector and if the connector is not used, there is no need to process.
- 6 BNC antenna output interface: Passive directional antenna or passive omnidirectional antenna can be used.

### Technical Specifications

Frequency Range: 470-940 MHz

Input/Output Impedance: 50Ω

RF Gain: 0dB (±2dB)

Connector Type: BNC

RF signal input: 4 channels

RF Input Normal Operating Range: +20 dBm Max.

RF input signal LED indicator threshold: > 7dBm

Insertion Loss: <3dB

Output Voltage: 4 channels 12V (DC) 1A max.

Power Requirements: AC 100-240V, 50-60Hz 60W Max.

Operating Temperature Range: -18°C (0°F) to 63°C (145°F)

Dimensions: 480 (W) x 350 (D) x 43 (H)

Weight: About 2.5Kg

### Connecting Device

