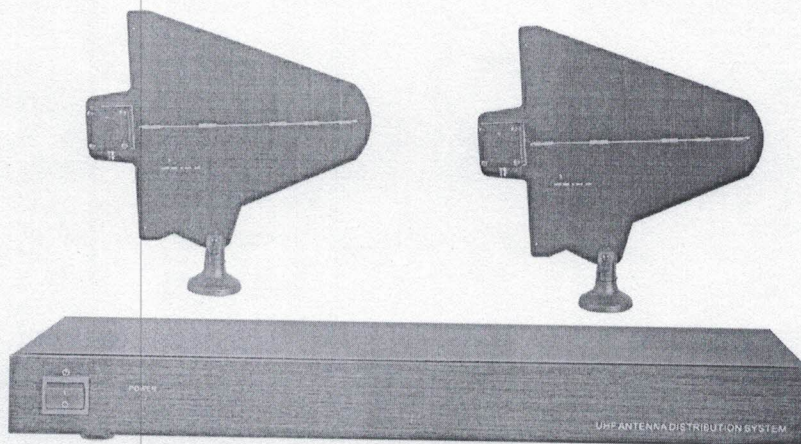


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# OWNER'S MANUAL

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## UHF Antenna Divider



Operation manual

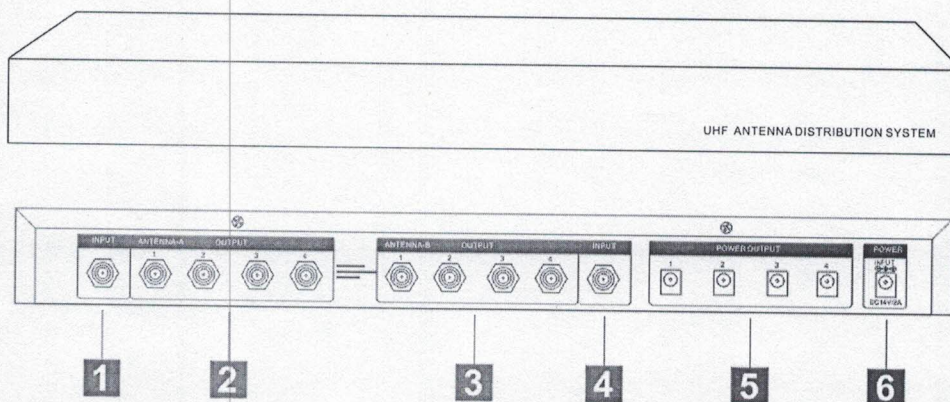


## Log periodic dipole antenna

1. The antenna provides two-in-one style high gain receptivity for the wireless system with UHF 500-900MHz and the receiving band will cover the whole UHF channel. The directive antenna design also provides ideal long range and steady reception for the UHF wireless system
2. The antenna Distributor is designed for long range reception and transmitting application, such as gymnasium, concert, theater and large performances; or some environment which can be blocked sight and reception, and the antennas can install or remove easily and firmly for convenient portability.
3. The antenna can be roughly used almost all UHF receivers, also provides 180 degree directed reception among fixed frequency. Compare with the standard antennas addition in the receiver, the antenna distributor promote about 13dB radio frequency signal when the impedance is 50 Ohm.
4. The antenna is made by glass copper and copper film coating, which is durable, anti-corrosion, to prevent UV ray and shocking. It can work for long time steadily in different environment, and the integration BNC terminals can make it high-quality and resist impedance, also reduce the pull of connecting line.

## Schematic diagram of antenna divider

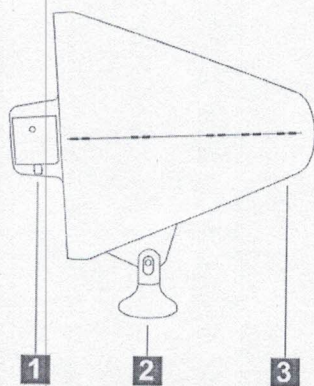
### A: Antenna distributor



1. Input terminal for antenna A (INPUT)
2. Output terminal for antenna A (ANTENNA-B OUTPUT)
3. Output terminal for antenna B (ANTENNA-B OUTPUT)
4. Input terminal for antenna B (INPUT)
5. DC 12V output terminal (POWER OUTPUT)
6. DC 12V input terminal (POWER)



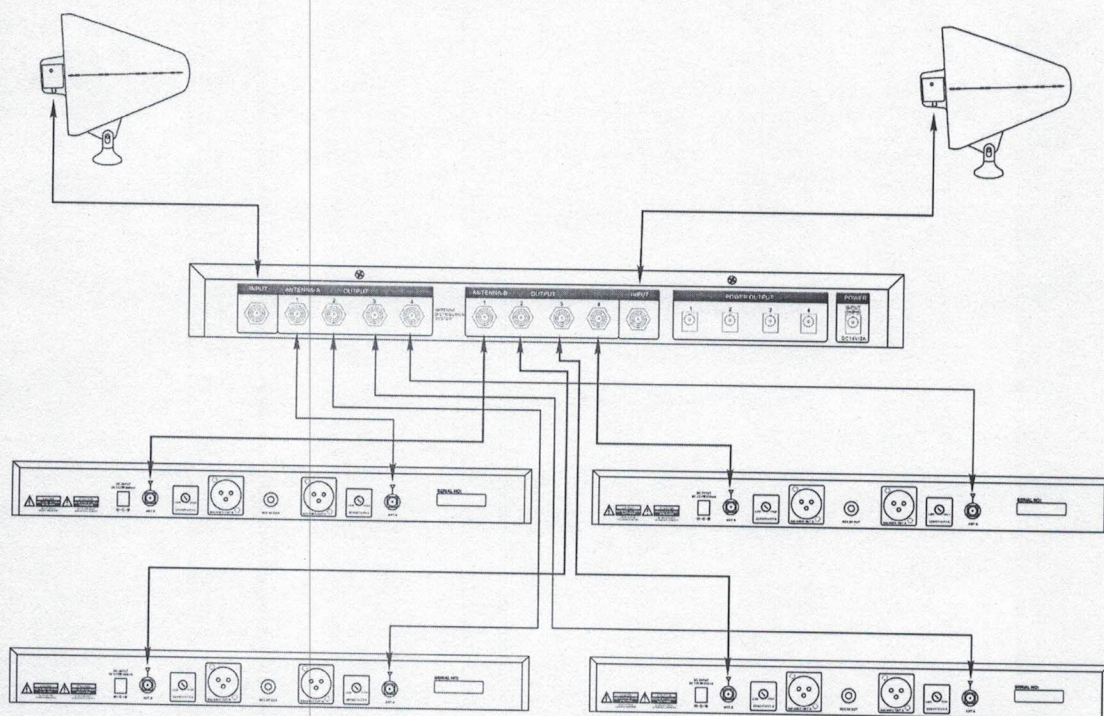
## B. Directive antenna



1. Antenna input signal terminal
2. Fixed part
3. Directive antenna panel

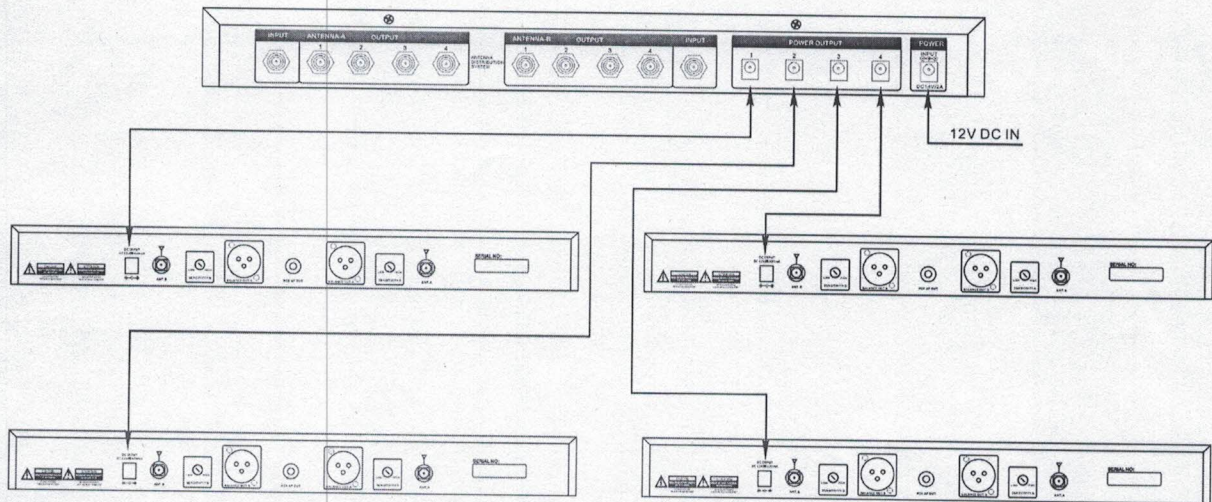
### Connection:

#### A: Antennal connection





## B: Power connection



## Specifications

- Antenna Type: LPDA antenna
- Frequency: 500-900MHz
- Input/Output Gain:  $+1.0\text{dB} \pm 1\text{dB}$
- Gain: 13dB typical
- Impedance: 50 Ohm
- Direction: Oval 180 degree typical
- Direction Polarity: Vertical
- Connecting terminal: Fixed right-angle BNC PCB jack, connector should set in the position of the smallest pull
- Structure: glass copper and copper film coating
- Output Port Isolation: 20dB
- Power Supply: 12~15V DC, 2A
- Current Consumption Approx. 170mA/12V DC Input
- Load current:  $<1700\text{mA}$

## Caution

In order to provide best program, the antenna should set:

1. Above ordinary people's head.
2. On the position which the transmitter can be seen directly and without barrier.
3. The near object should keep the antenna at one meter ( at least)



4. The system should keep at least one meter distance from the large-scale metal produce or jamming signal source. Meanwhile, the coaxial cable connected to the receiver should be shortened; you can try to set the antenna in different position to get the best reception under permission
5. The antenna uses 5/18-27 mounting joint which can turn horizontally 180 degree. When use for portable utilization, the antenna can install on the microphone mounting of 5/18-27 joint.
6. The antenna can be affected by the weather. When using outdoors, please set the antennas on the dry location because the damp and rain can affect the BNC terminal and the cable performance and safety.