ClearOne®

User Manual

Dialog® Antenna Amplification System

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Notices

Information in this document is subject to change without notice.

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Preface

Read this user manual carefully before using the product. Pictures shown in this manual are for reference only. Different models and specifications are subject to real product.

This manual is only for operation instruction, please contact the local distributor for maintenance assistance. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

FCC Statement

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.

Contents

1. Description

In order to extend the useful range of the wireless microphone system, a pair of antennas can be shared amongst multiple receivers using the antenna distributor. When using antenna combiners, multiple pairs of antennas can be shared with a receiver or an antenna combiner.

2. Feature

2.1 Antenna distributor features

- Distribute a single pair of antennas to multiple receivers.
- 4 output channels per antenna to connect up to 4 receivers.
- Support cascading operations to increase the number of microphones in use.
- Equipped with 4 DC power output interfaces, it can conveniently power 4 receivers.

2.2. Antenna combiner features

- Capable of merging two RF signals into one output signal.
- When used for signal combining, it effectively isolates each antenna group to prevent crosstalk and maintain signal integrity.

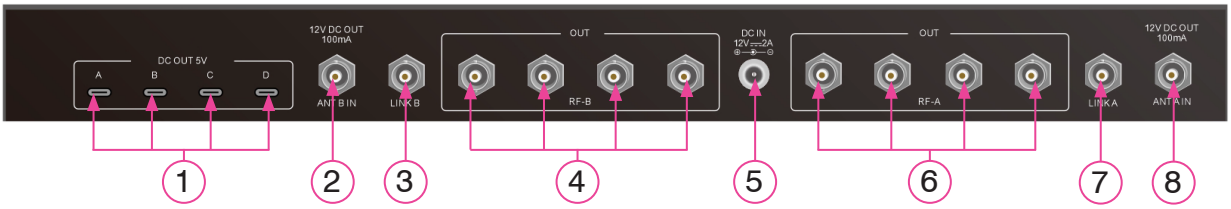
2.3. Ceiling/Wall antenna features

- Ceiling/Wall mountable active antenna with a 180deg reception beam.
- With a wide antenna receiving frequency band, it can receive frequencies of 470-950 MHZ.
- Support anti-corrosion, anti-ultraviolet, anti-shock and light weight, and can work stably for a long time in different environments.
- Easy and convenient to install.

3. Product Name & Function

3.1. Names and functions of each part of the antenna distributor

No	Name
1	Power Indicator.
2	Power Switch.

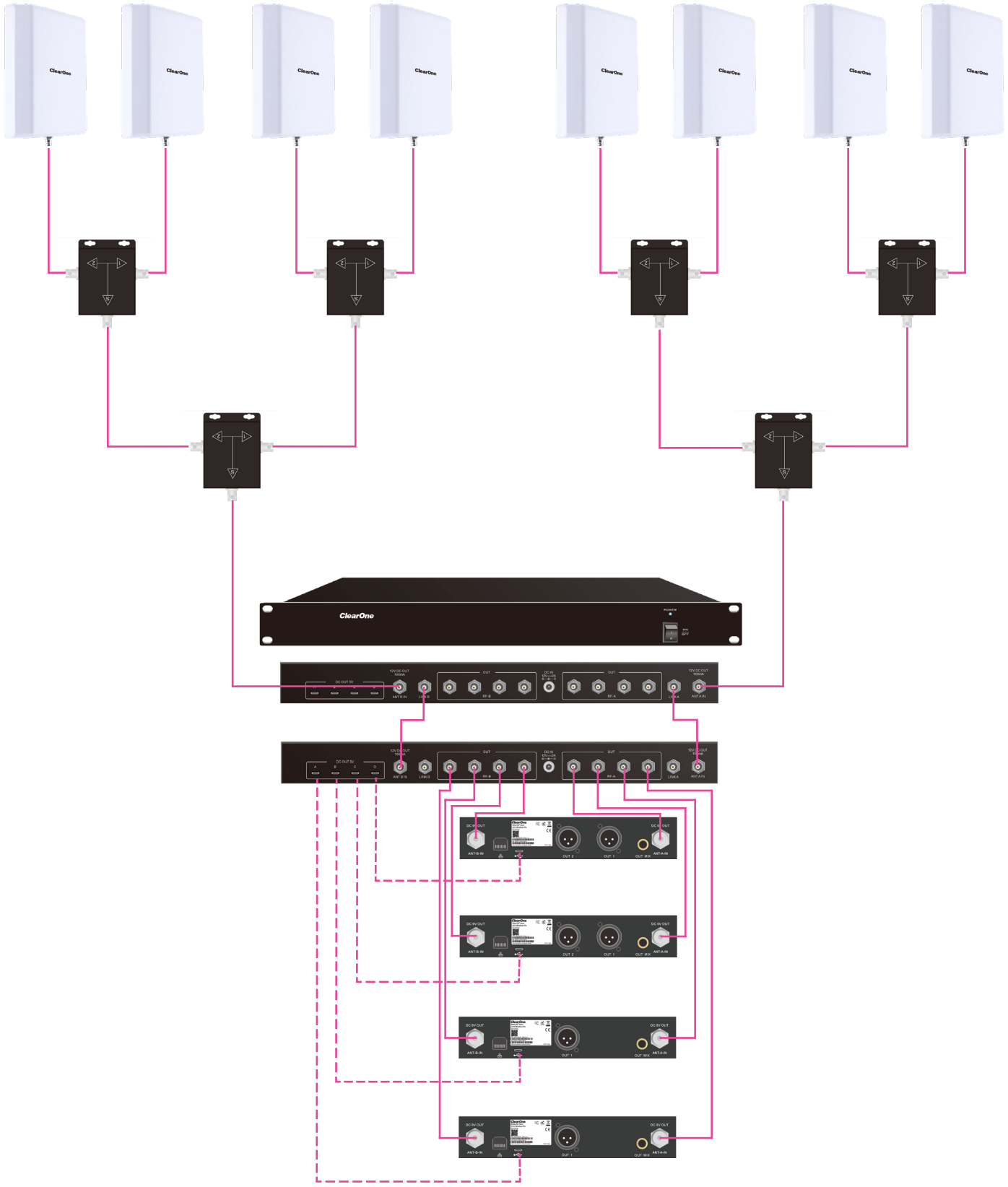


No	Name
1	DC power output: Supply 5V DC.
2	Antenna B signal input interface receives the signal from the antenna and provides 12V DC to the antenna to 4 receivers.
3	The antenna B signal is cascaded to the antenna signal input end of the next distributor.
4	Antenna B signal output.
5	DC power input: Antenna distributor host power socket.
6	Antenna A signal output.
7	The antenna A signal is cascaded to the antenna signal input end of the next distributor.
8	Antenna A signal input interface receives the signal from the antenna and provides 12V DC to the antenna.

3.2. Names and functions of each part of the ceiling/wall antenna

No	Name
1	BNC connector: Connect to a receiver or antenna distributor that provides 9-12Vdc.

4. Ceiling/Wall antenna connection diagram



5. Specifications

Antenna Distributor	
Frequency Range	470-950 MHZ
Total gain	0±2 dB
Input/output impedance	50 Ω
Antenna powered	12V
Signal input interface	BNC interface × 2
Signal output interface	BNC interface × 8
Signal cascade interface	BNC interface × 2
DC output interface	5V DC/1A (MAX) × 4 ports.
Power supply	12V DC/3A
Connector port	BNC
Dimensions (L×W×H)	482.6×209.2×45 mm
Weight	2.25 Kg

Antenna Combiner	
Frequency Range	470-950 MHZ
Attenuation	-4 dB,±1 dB
Isolation	≥15 dB
Impedance	50 Ω
Interface	BNC
Dimensions(L×W×H)	79 × 60 × 26 mm
Weight	0.2 Kg

Ceiling/Wall Antenna	
RF frequency range	470-950 MHZ
Power supply	BNC
Input resistance	50 Ω
Polarization mode	vertical
Connector type	BNC
Directivity	180 degrees
Dimensions	207*177*44.5 mm
Weight	About 320 g

Note: Since the appearance and functions of this product are constantly being upgraded, please refer to the actual product for detail. The final interpretation right of this product manual belongs to the manufacturer.

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⚠ Warning ⚠

1. Do not block the vent.
2. If the power cord is damaged, stop using it immediately.
3. It should not be placed in the following places: poor ventilation; dusty; direct sunlight; high ambient temperature or close to heat sources; subject to vibration.
4. It is required to be protected from rain and moisture.
5. It cannot be placed in a container that can be filled with liquid.
6. The housing is required to be safely grounded.
7. The power plug and socket are required to be compatible.
8. Please do not open the housing cover by yourself to avoid electric shock. When it fails, please contact the supplier or the manufacturer for maintenance services, or you can entrust professionals in professional departments with professional certificates. Non-professionals are forbidden to disassemble the machine by themselves, otherwise electric shock may endanger the their life.

Specifications and parameters are subject to change without notice