

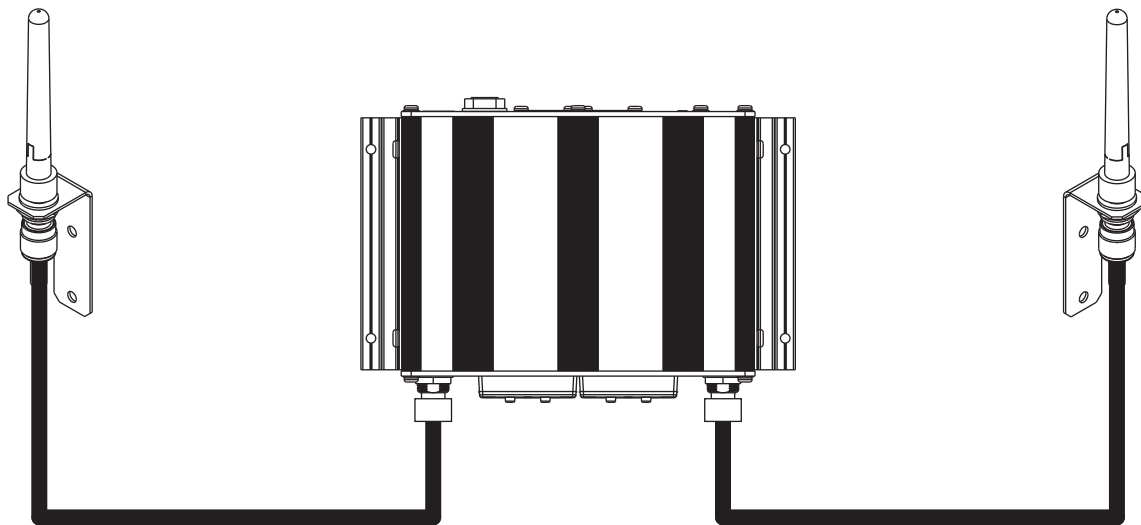
ClearOne®

DIALOG® 20 Wireless Microphone System Antenna Installation Guide



ClearOne® DIALOG® 20

The ClearOne DIALOG 20 Wireless Microphone System is a compact, feature-rich, and complete 2-Channel Wireless Microphone System built on the 2.4 GHz RF band and utilizing spread spectrum, frequency-hopping technologies to deliver a simple-to-use, robust, and secure wireless microphone system. The system consists of a Receiver with two, built-in, passive antennas. When using a ClearOne Antenna Cable Kit, the antennas can be extended to either 10' or 25' lengths in either direction easily accommodating most conference requirements and room types. These Plenum-rated antennas adhere to most municipal fire codes, and therefore, they can be extended inside ceiling crawl spaces for discreet installation. The available transmitters include: Boundary tabletop, Gooseneck podium, Handheld and Beltpack.



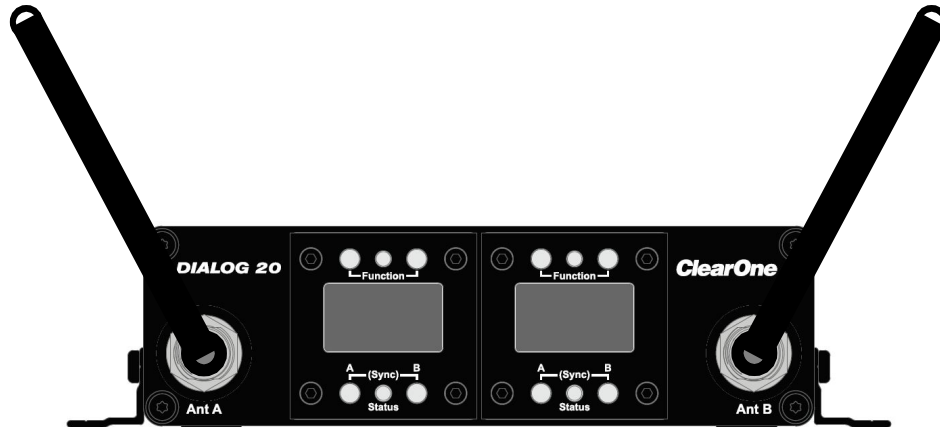
Example of “A” and “B” antennas with antenna cable kit configuration.

ClearOne® DIALOG® 20

Receiver-Mounted Antennas:

DIALOG 20 Receivers come with two, Plenum-rated, dipole antennas.

- Mount the antennas on the front of the receiver using a non-conductive adhesive on the threads of the Female TNC Connector.
- Tilt the antennas slightly outward.



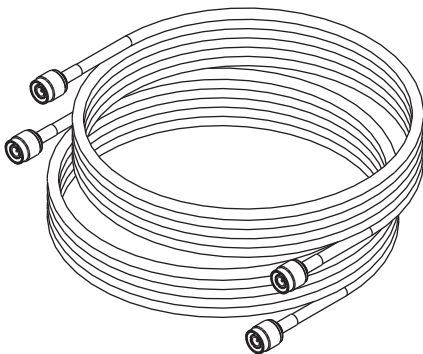
Antenna Cable Kits:

DIALOG 20 Antenna Cable Kits are available in two lengths.

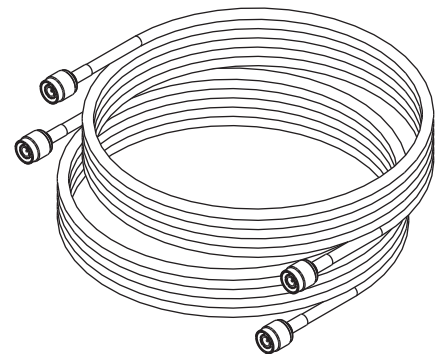
The DIALOG 20 Antenna Cable kit can be used to extend the passive, Plenum-rated, dipole antennas that are included with the DIALOG 20 Receiver.

Choose either a 10' (ft) or 25' (ft) Antenna Cable Kit.

Includes required hardware. Does not include antennas or adhesive.



10' (ft) length for small rooms
(RG58 Plenum Cable)
SKU: 910-6105-011



25' (ft) length for large rooms
(RG8 Plenum Cable)
SKU: 910-6105-021

ClearOne® DIALOG® 20

Confirm the Box Contains the Following:

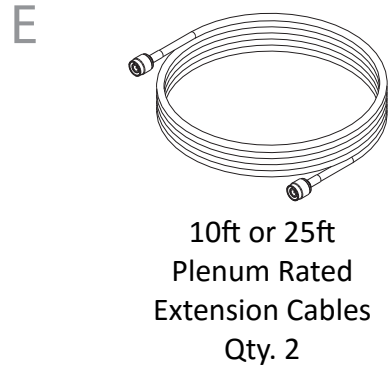
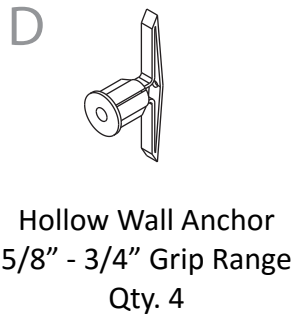
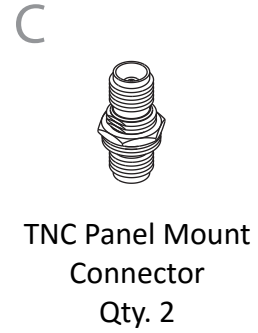
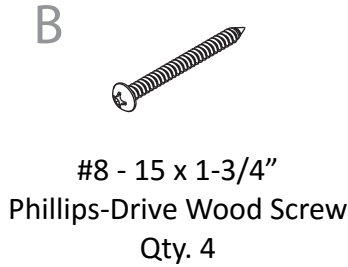
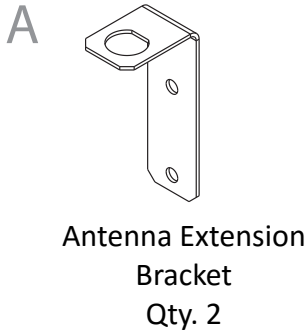
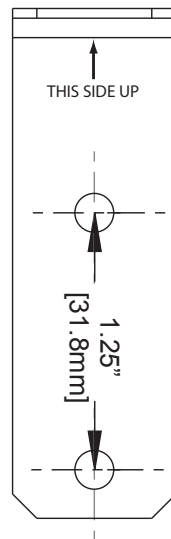
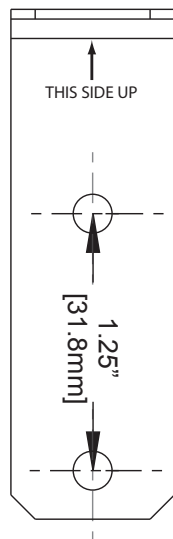


Fig. 1
Bracket
Hole Templates
(Actual Size)



Use these cable extension brackets
templates to mark the pilot holes.

Hollow-Wall Antenna Installation:

- 1 Determine required mounting location.
- 2 Using the antenna extension brackets or the templates (fig. 1; Pg. 2), mark the two (2) mounting hole locations.
- 3 Drill two 5/16" (8mm) pilot holes (Fig 2).
- 4 Fold the anchor (D) in the middle by pressing in middle with finger (Fig. 3).
- 5 Insert anchor in hole and tap flush with a hammer (Fig. 4).
- 6 Use nail or small screwdriver to pop anchor open behind hollow wall (Fig. 5; not necessary for thick or solid walls).
Do not hammer nail or screwdriver.
- 7 Remove the nail or screwdriver.
- 8 Repeat steps 4 - 7 for the second anchor.
To avoid interference, only one anchor should be installed vertically.
- 9 Secure antenna extension bracket (A) using two (2) wood screws (B) (Fig 6).
Do not overtighten screws.

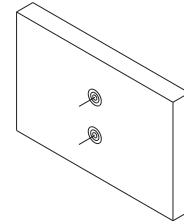


Fig. 2
Wall
Anchor

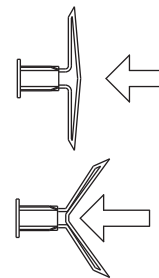


Fig. 3
Wall
Anchor

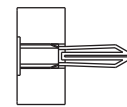


Fig. 4
Wall
Anchor
Flush

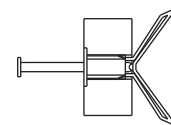


Fig. 5
Wall Anchor
open in wall

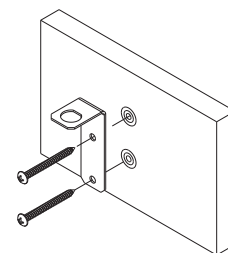


Fig. 6
Secure
Bracket to
Wall

Hollow wall anchors (D) may be used as wedge anchors in walls thicker than 3/4" or as expansion anchors in solid walls.

Wood-Stud Antenna Installation:

- 1 Determine required mounting location.
- 2 Using the antenna extension bracket or the template (fig. 1; pg. 2), mark two (2) mounting hole locations.
- 3 Drill two 7/64" (2.5mm) pilot holes to a depth of 1-3/4" (45mm).
- 4 Secure the antenna extension bracket (A) to the structure using two (2) wood screws (B) (Fig. 7).

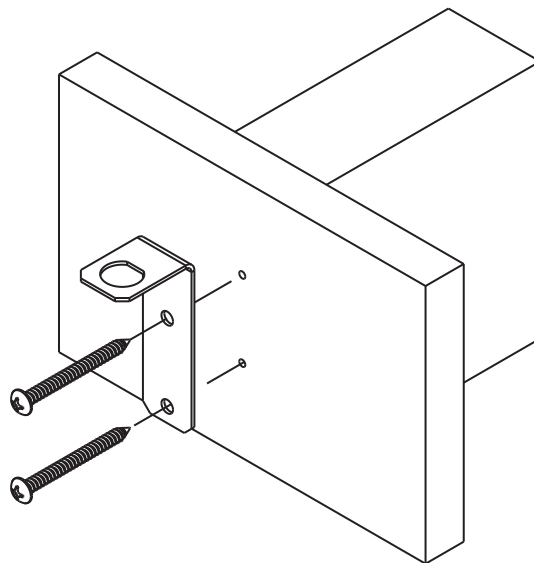


Fig. 7
Wood Stud
Wall Mount
Installation

Mounting Antennas to Wall, Ceiling or AV Rack:

1 Mount antenna over-head and within line of site to transmitters. The dipole antenna's reception is strongest at the sides of the antenna with a null point at the tip. Therefore, it is best to tilt the antenna so that the side faces the transmitters.

- Wall Mount (Fig. 8).
- Ceiling Mount (Fig. 9, 10, 11).
- Ceiling Mount RX with PoE to CONVERGE® Pro 2 or Beamforming Mic Array 2 (Fig. 11).
- AV Rack Mount (Fig. 12).

2 Separation distance of antennas should be a minimum of 2' (ft.) and maximum of 30' (ft.).

3 Attach TNC panel mount connector (C) and secure both the antenna and the extension cable (E) to the antenna extension bracket (A) by using a non-conductive adhesive on the threads of both sides of the TNC Panel Mount Connector (Fig. 8).

4 Attach the other end of the extension cable to the DIALOG 20 Receiver and secure by using a non-conductive adhesive on the threads of the Female TNC Connector.

5 Repeat steps 1 to 4 for the second antenna and extension cable.

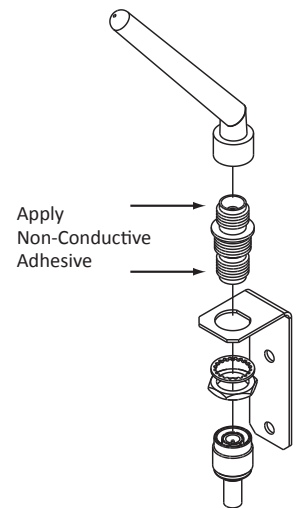


Fig. 8 Antenna Bracket Assembly Wall Mounted

Suggested Mounting Options:

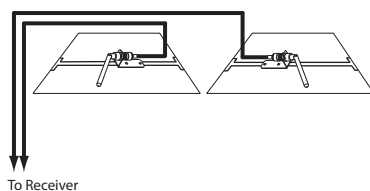


Fig. 9
Plenum-Rated Antennas Mounted in the Crawl Space above the Ceiling Tiles using 3rd party "T-Bracket".

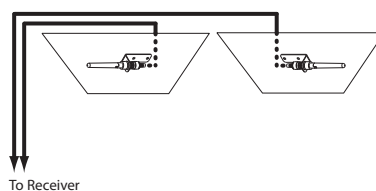


Fig. 10
Plenum-Rated Antennas Mounted below the Ceiling Tiles.

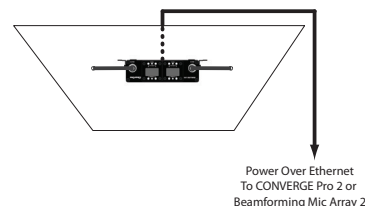


Fig. 11
Receiver Mounted on Outside of Ceiling Tile with PoE to CONVERGE Pro 2 or Beamforming Mic Array 2

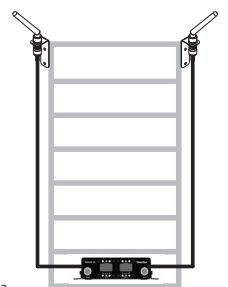


Fig. 12
Antenna Position AV Rack Mounted

Professional installation is required. Installer is responsible for securing antennas with a non-conductive adhesive and ensuring mounting hardware is appropriate to their particular installation.



ClearOne®

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