

# ClearOne®

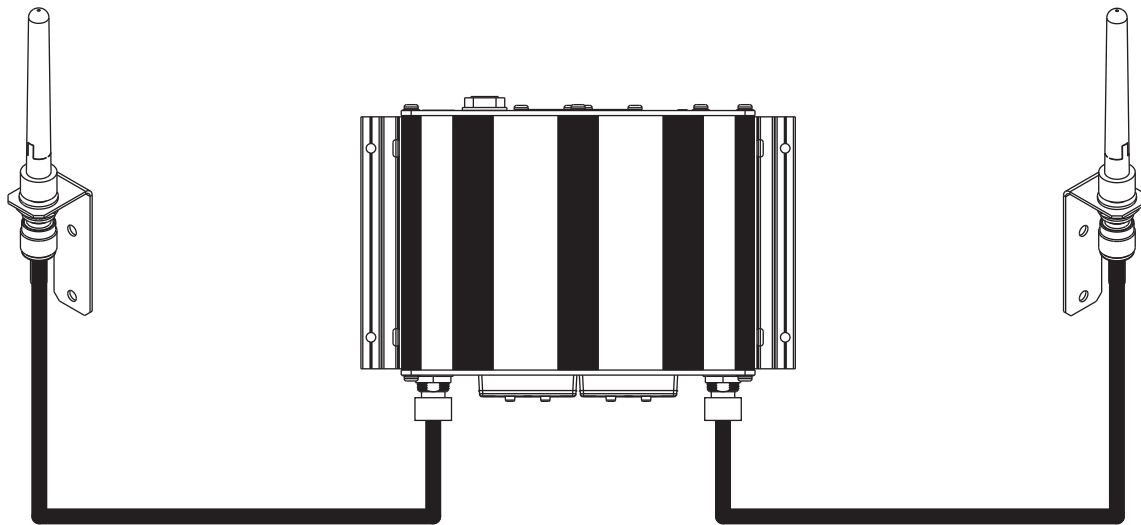
## DIALOG™ 20 Wireless Microphone System Antenna Installation Guide



# **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 each direction easily accommodating most conferencing requirements and room types. The available transmitters include: Boundary tabletop, Gooseneck podium, Handheld and Beltpack.



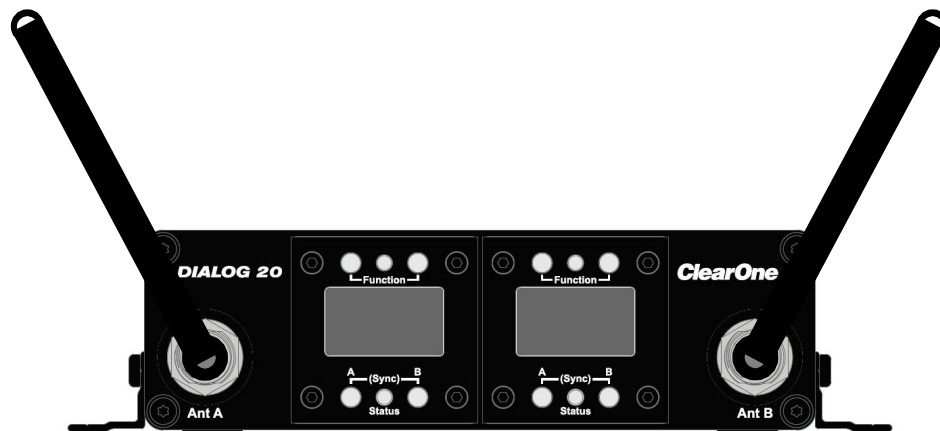
Example of “A” and “B” antennas with antenna cable kit configuration.

# ClearOne® DIALOG™ 20

## Receiver Mounted Antennas:

DIALOG 20 Receivers come with two dipole antennas.

- Mount the antennas on the front of the receiver.
- Tilt the antennas slightly outward.



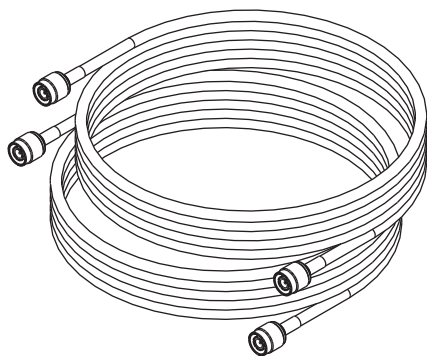
## Antenna Cable Kits:

DIALOG 20 Antenna Cable Kits are available in two lengths.

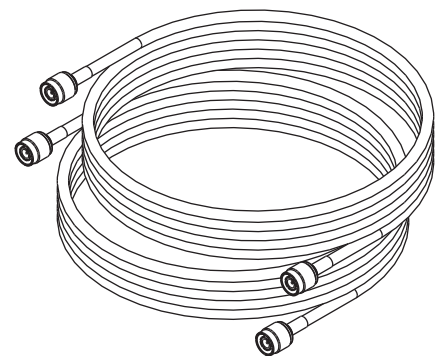
The DIALOG 20 Antenna Cable kit can be used to extend the passive, dipole antennas that are included with the DIALOG 20 Receiver.

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

*Includes required hardware. Does not include antennas.*



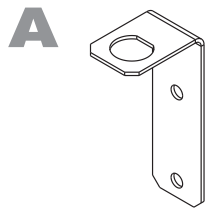
10' (ft) length for small rooms  
(RG58 Plenum Cable)  
SKU: 910-6105-011



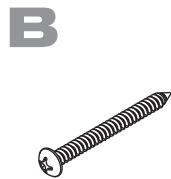
25' (ft) length for large rooms  
(RG8 Plenum Cable)  
SKU: 910-6105-021

# ClearOne® DIALOG™ 20

## Confirm the Box Contains the Following:



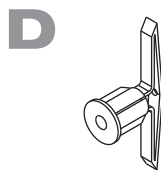
Antenna Extension  
Bracket  
QTY 2



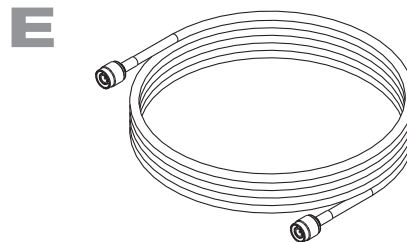
#8-15 X 1-3/4"  
Phillips Drive Wood Screw  
QTY 4



TNC Panel Mount  
Connector  
QTY 2

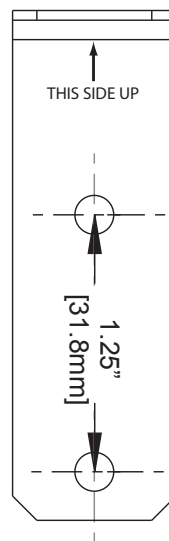
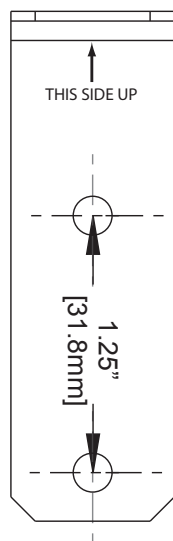


Hollow Wall Anchor  
5/8-3/4" Grip Range  
QTY 4



10FT OR 25FT  
EXTENSION CABLE  
QTY 2

Fig. 1  
Bracket  
Hole Templates  
(Actual Size)



Use these cable extension bracket  
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.  
Note: 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.**

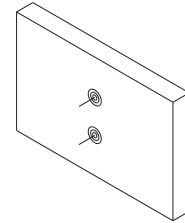


Fig. 2  
Wall  
Anchor

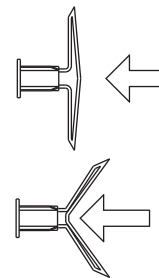


Fig. 3  
Wall  
Anchor

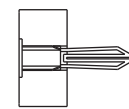


Fig. 4  
Wall  
Anchor  
Flush

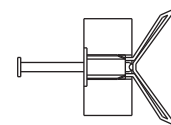


Fig. 5  
Wall Anchor  
open in wall

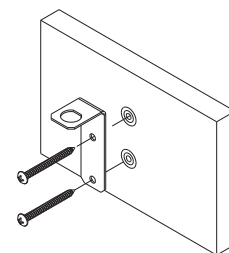


Fig. 6  
Secure  
Bracket to  
Wall

*Note: 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).

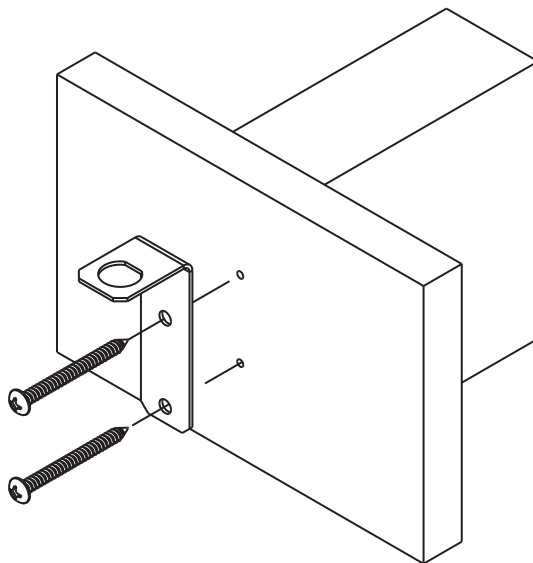


Fig. 7  
Wood Stud  
Wall Mount  
Installation

## 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).
  - Ceiling Mount RX with PoE to Converge Pro 2 or Beamforming Mic Array 2 (Fig. 10).
  - AV Rack Mount (Fig. 11).
- 2** Separation distance of antennas should be a minimum of 2' (ft.) and maximum of 30' (ft.).
- 3** Attach TNC panel mount connector (C), antenna from Dialog20 Receiver and extension cable (E) to antenna extension bracket (Fig. 8).
- 4** Attach the other end of extension cable to Dialog20 Receiver.
- 5** Repeat steps 1 & 2 for the second antenna and extension cable.

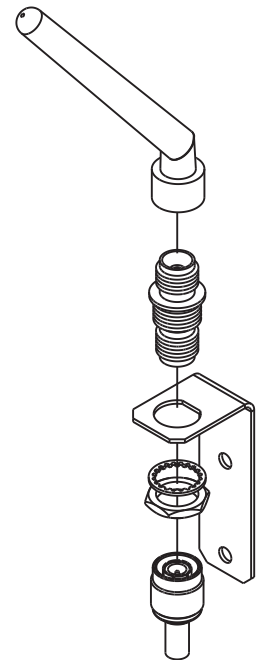


Fig. 8 Antenna Bracket Assembly Wall Mounted

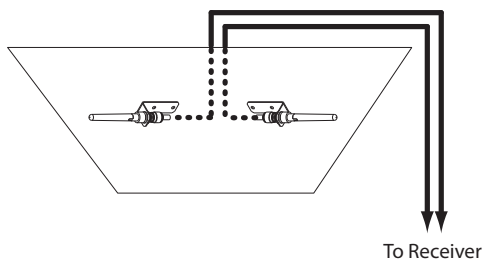


Fig. 9  
Antenna Mounted on ceiling tile

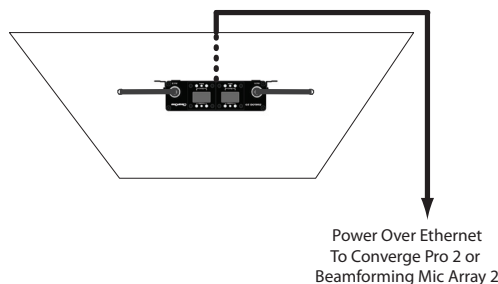


Fig. 10  
Receiver Mounted on Ceiling Tile with PoE to Converge Pro 2 or Beamforming Mic Array 2

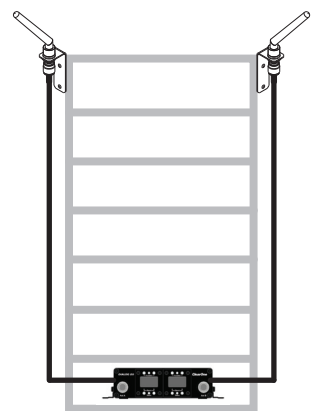


Fig. 11  
Antenna Position AV Rack Mounted

*Installer is responsible for ensuring mounting hardware is appropriate to their particular installation.*



# *ClearOne*®

## CLEARONE LOCATIONS

---

### HEADQUARTERS:

#### Salt Lake City, UT USA

5225 Wiley Post Way  
Suite 500  
Salt Lake City, UT 84116

**Tel:** 801.975.7200

**Toll Free:** 800.945.7730

**Fax:** 801.303.5711

**e-mail:** [sales@clearone.com](mailto:sales@clearone.com)

### EMEA

**Tel:** 44 (0) 1189.036.053

**e-mail:** [global@clearone.com](mailto:global@clearone.com)

### APAC

**Tel:** 852.3590.4526

**e-mail:** [global@clearone.com](mailto:global@clearone.com)

### LATAM

**Tel:** 801.974.3621

**e-mail:** [global@clearone.com](mailto:global@clearone.com)

### TechSales

**Tel:** 800.707.6694

**e-mail:** [techsales@clearone.com](mailto:techsales@clearone.com)

### Technical Support

**Tel:** 800.283.5936

**e-mail:** [tech.support@clearone.com](mailto:tech.support@clearone.com)