ClearOne®

Ceiling Microphone Array Analog-X

Quick-Start Guide

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PRODUCT OVERVIEW

The Ceiling Microphone Array (CMA) Analog-X is the newest and most advanced tri-element CMA addition to our ceiling mic lineup for conferencing and sound reinforcement applications. Flexible and easy to use, the Analog-X is 100% RF immune, optimized for speech-intelligibility, and can daisy-chain for easy installation.

PARTS

The Analog-X CMA comes with the following parts:

- Mic Array
- Junction Box
- Interface Box & Power Supply

The mic array is made up of 3 components:

Mic Capsule

Drop Cable

Integrated Fixing Assembly that allows drop-down height adjustment

TOOLS REQUIRED

A drill with a 7/8" saw bit
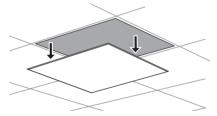
MICROPHONE ARRAY PLACEMENT

Determine placement of an array by its pickup pattern and room characteristics. Adjusting drop-down height from 0 to 7 ft. determines how close an array is to users, and how far its pickup pattern extends.

INSTALLATION

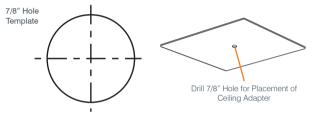1. Drop the ceiling tile where you are installing the microphone array.

2. Place the Junction Box in the space above the suspended ceiling where you want to place the microphone array.

3. If mounting, secure screws. You must supply your own screws appropriate to your mounting structure.

   NOTE: Mount ears are pre-installed on the Junction Box, with holes sized for M3 or #6 size screws.
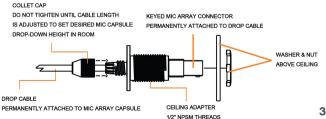
   IMPORTANT: Installer is responsible for making sure structure can support the weight of all equipment. Reinforce ceiling structure as necessary.

4. The holes in the mounts may also be used to attach a Ø3mm (Ø1/8") safety cable. You must supply your own safety cable.

5. Run the CAT5e/6 cable from the Interface Box location to the Junction Box through the open ceiling to conceal the cable. You must supply your own CAT5e/6 cable.

6. Drill a 7/8" hole in the removed ceiling tile for mic cable pass-through.

7/8" Hole
Template

Drill 7/8" Hole for Placement of
Ceiling Adapter

7. Place the ceiling adapter in the hole, and pass the drop cable through.

8. Tighten the washer snugly into place against the ceiling adapter.

9. Adjust the length of drop-down for the cable as needed.

10. Slide the collet cap up to the ceiling adapter, and tighten snugly.

COLLET CAP
DO NOT TIGHTEN UNTIL CABLE LENGTH
IS ADJUSTED TO SET DESIRED MIC CAPSULE
DROP-DOWN HEIGHT IN ROOM

KEYED MIC ARRAY CONNECTOR
PERMANENTLY ATTACHED TO DROP CABLE

WASHER & NUT
ABOVE CEILING

DROP CABLE
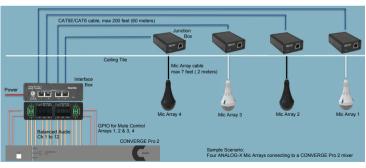PERMANENTLY ATTACHED TO MIC ARRAY CAPSULE

CEILING ADAPTER
1/2" NPSM THREADS

CEILING MIC ARRAY ANALOG-X

11. Connect the Analog-X cable to the Junction Box.
12. Put the tile back into place.

13. Connect Euroblock Phoenix connectors from the Interface Box to the DSP mixer.

CAT5E/CAT6 cable, max 200 feet (60 meters)

Junction Box

Ceiling Tile

Mic Array cable max 7 feet (2 meters)

Interface Box

Power

Mic Array 4   Mic Array 3   Mic Array 2   Mic Array 1

GPIO for Mute Control Arrays 1, 2 & 3, 4

Balanced Audio Ch 1 to 12

CONVERGE Pro 2

Sample Scenario:
Four ANALOG-X Mic Arrays connecting to a CONVERGE Pro 2 mixer

COMPLIANCE

CE

This product complies with the requirements of the European Community Directive.

PLENUM

This product meets the UL 2043 plenum-rating standard. This certifies that the product has adequate fire resistance and low smoke-emission characteristics to be mounted and operated in a building's environmental air spaces, such as above suspended ceilings in an office environment.

CLEARONE LOCATIONS

Headquarters:

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

Tel: 801.975.7200
Sales: 800.707.6994

US & Canada
Tel: 801.975.7200
Toll Free: 800.945.7730
Fax: 801.303.5711

International
Tel: +1.801.975.7200
e-mail: global@clearone.com

Sales
Tel: 801.975.7200
e-mail: sales@clearone.com

TechSupport
Tel: 801.974.3760
e-mail: tech.support@clearone.com