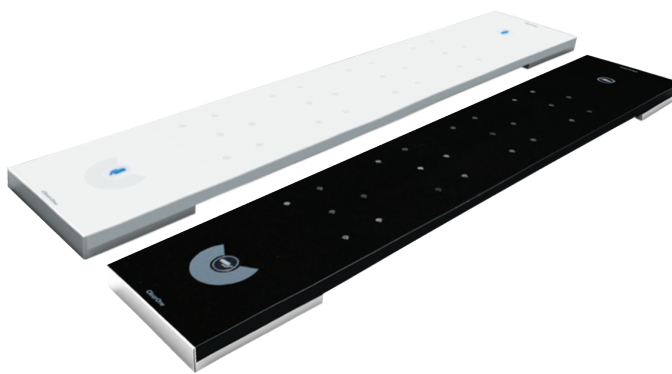# ClearOne®

BEAMFORMING MICROPHONE ARRAY

The Beamforming Microphone Array is the Pro-Audio industry's first professional-grade microphone array with beamforming and adaptive steering technology and ClearOne's next-generation Acoustic Echo Cancellation. The ultra-sleek design fits into any conferencing environment and delivers the clearest audio pickup available with adaptive acoustic processing.
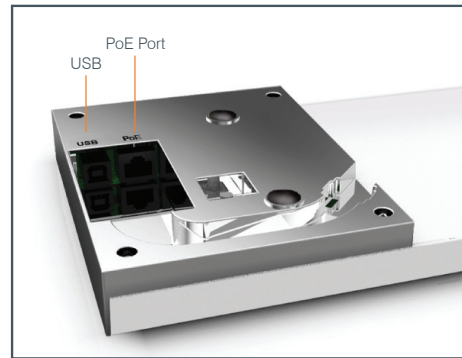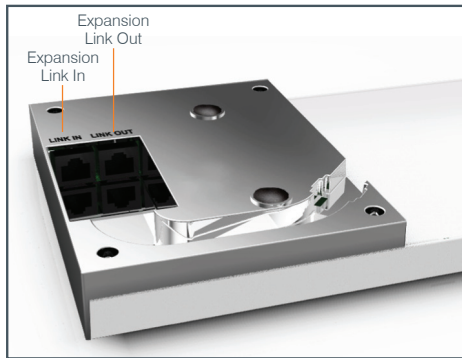

Applications

Board Room

Conference Room

Training Center

Courtroom

House of Worship

Telepresence

Features

+ Beamforming & adaptive steering technology

+ Next-generation Acoustic Echo Cancellation

+ 24 microphone elements

+ Mono and stereo modes for diverse applications

+ Flexible mounting for ceiling, wall and tabletop

+ Works with CONVERGE® Pro products: 880, 840T, 880T, 880TA

+ Expandable for larger room applications by daisy-chaining up to three arrays per CONVERGE® Pro unit

+ Adaptive acoustic processing automatically adjusts to room configuration for best possible audio pickup

+ Replaces up to 10 traditional microphones, with twice the pickup range

BEAMFORMING MICROPHONE ARRAY CONNECTIONS

Expansion Link In
Expansion Link Out

USB
PoE Port

Functional Specifications

AUDIO
ACOUSTIC CHARACTERISTICS:
24 microphones
Auto voice tracking
Polar Pattern: Custom
Frequency Response: 150Hz - 16kHz
Signal to Noise Ratio: >70 dB
AEC Tail time: 128 ms
Noise Cancellation: 6 - 15 dB adjustable

AUTO MIXER PARAMETERS:
Number of Open Microphones (NOM)
First mic priority mode
Last mic mode
Maximum number of mics mode
Ambient level
Gate threshold adjust
Off attenuation adjust
Hold time
Decay rate

MATRIX MIXING PARAMETERS:
1 Channel In
18 Expansion Bus In/Out

BEAMFORMING MIC ARRAY CONFIGURATION:
Echo cancellation on/off
Noise cancellation on/off
Filters:
   All Pass
   Low Pass
   High Pass
   Notch
   PEQ
ALC on/off
Gain adjust
Mute on/off
Auto gate/manual gate

POWER
PoE IEEE 802.3AF-2003
CAT-5 cable or higher
6 watts average power consumption

EXPANSION BUS IN/OUT
Proprietary Network
RJ-45 (2)
Solid core Category 5e or Category 6 cable, factory terminated, for 200 feet maximum length between any two devices connected through Expansion bus

USB
Not currently supported. Available for future use

RS232
Commands through CONVERGE Pro

CONFIGURATION & ADMINISTRATION SOFTWARE:
CONVERGE Console (4.x)

WEIGHT
4.4 lbs (2.0kg)

MECHANICAL
DIMENSION (WxHxW)
30" x 1" x 5.75" (WxHxD) (762mm x 25.4mm x 146mm)

MOUNTING
Ceiling mount kit (12", 24", 36", and 48" suspension column)
Wall mount kit
Table mount

ENVIRONMENTAL
OPERATING TEMPERATURE
14° F/-10° C to 122° F/50° C ambient temperature

INSTALLATION
OPTIMUM COVERAGE DISTANCE:
About 6 - 10 traditional cardioid mics
About 2 - 3 ClearOne ceiling mic array
About 8' - 10' radius

SUPPORTED CONVERGE PRO*
CONVERGE Pro 840T
CONVERGE Pro 880
CONVERGE Pro 880T
CONVERGE Pro 880TA
*Maximum 3 Beamforming microphone array per each supported CONVERGE Pro unit and maximum 16 units in one stack

PART NUMBERS
910-001-003:
  White Beamforming Microphone Array
910-001-003-B:
  Black Beamforming Microphone Array
910-001-004:
  PoE Power Supply & Cables Kit for BFM Array
910-001-005-12:
  White Ceiling Mount kit with 12" suspension column
910-001-005-12-B:
  Black Ceiling Mount kit with 12" suspension column
910-001-005-24:
  White Ceiling Mount kit with 24" suspension column
910-001-005-24-B:
  Black Ceiling Mount kit with 24" suspension column
910-001-005-36:
  White Ceiling Mount kit with 36" suspension column
910-001-005-48:
  White Ceiling Mount kit with 48" suspension column
910-001-006:
  White Wall Mount kit for BFM Array
910-001-006-B:
  Black Wall Mount kit for BFM Array

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