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

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
  - 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)
- Category 5 twisted-pair cable for 200 feet maximum cable length between any two CONVERGE Pro devices

**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**
- 30.0” x 1.00” x 5.75” (WxHxD) (762mm x 25.4mm x 146mm)

**MOUNTING**
- Ceiling mount kit (12” & 24” suspension column)
- Wall mount kit
- Table mount

**ENVIRONMENTAL**
- Operating Temperature: 14° F/-10° C to 122° F/50° C ambient temperature

**INSTALLATION**
- Optimum Mounting Height: About 8 - 10 foot ceiling
- Optimum Coverage Distance:
  - About 6 - 10 traditional cardioid mics
  - About 2 - 3 ClearOne ceiling mic array
  - About 8 - 10 foot 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 for BFM Array
- 910-001-005-12-B: Black Ceiling Mount kit with 12” suspension column for BFM Array
- 910-001-005-24: White Ceiling Mount kit with 24” suspension column for BFM Array
- 910-001-005-24-B: Black Ceiling Mount kit with 24” suspension column for BFM Array
- 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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