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 pick-up 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: -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)
  - 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” (762mm x 25.4mm x 146mm)

- **Mounting:**
  - Ceiling mount kit with 12” spanner
  - Ceiling mount kit with 24” spanner

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

**Power**
- **Expansion Link Out**
- **Expansion Link In**

**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: Beamforming Microphone Array
- 910-001-004: PoE Power Supply & Cables Kit for BFM Array
- 910-001-005-12: Ceiling Mount kit with 12 inch spanner for BFM Array
- 910-001-005-24: Ceiling Mount kit with 24 inch spanner for BFM Array