

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

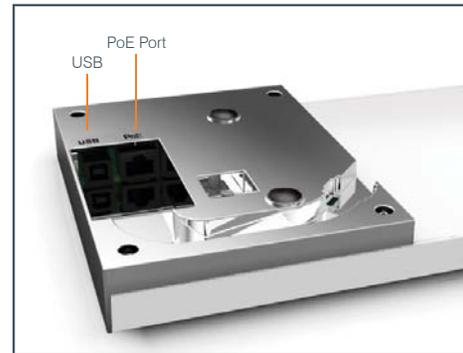
### Features



- + 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  
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 (WxHxD)

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 MOUNTING HEIGHT:

About 8' - 10' ceiling

#### 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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