Beamforming Microphone Array – Key Features

+ Industry’s first professional grade beamforming microphone array
+ Patent-pending beamforming & adaptive steering technology
+ ClearOne’s Next-generation AEC
+ 24 Microphone elements
+ Mono & Stereo modes
+ Adaptive acoustic processing
+ Flexible mounting – ceiling, wall and table
+ Works with CONVERGE® Pro 840T, 880, 880T and 880TA
Beamforming Microphone Array – Key Features

+ Ultra-sleek design
+ Significantly reduces height, distance and angle constraints
+ Twice the pick-up range of traditional microphones
+ Replaces 6-10 traditional microphones
+ Simpler & quicker installation
+ Power-over-Ethernet (PoE) connection
+ Connects with CONVERGE Pro through a G-Link expansion port
+ Daisy-chain up to 3 Beamforming Microphone Arrays per each CONVERGE Pro unit
Beamforming & Adaptive Steering

+ Beamforming is a way of combining signals from many microphones to create focused pick-up patterns.
+ Automatically steers pick-up pattern towards the talkers in the room and rejects unwanted noise and reflections; reducing the hollow sound and room noise.
+ Beamforming technology reduces constraints on height, distance and angle.
Beamforming Microphone Array Advantages

+ Flexible
+ Powerful
+ Familiar
+ Scalable
Flexible

+ Flexible mounting - ceiling, wall and table with adaptive acoustic processing creates best possible audio pick-up
+ Clean, simple, sleek form factor can replaces 6 to 10 traditional microphones
+ Simpler & quicker installation, reduces the total installation cost
+ Minimizes the visual presence of the microphone in the room
+ Ceiling
  > Hang from ceiling using ceiling mounting kit to position approximately 8 feet above the talker
  > Neat, professional look & feel for the conference room
  > Avoid drilling holes on the conference table to mount microphones
+ Wall
  > Fix on the wall using wall mounting kit
  > Neat, professional look & feel for the conference room
  > Avoid drilling holes on the conference table to mount microphones
+ Table
  > No mounting
  > Free-standing unit at the center of the conference table parallel to length of the table
  > Preferred where ceiling and wall mounting options are not feasible
Powerful

+ ClearOne patent-pending beamforming, adaptive steering technology
+ ClearOne next-generation Acoustic Echo Cancellation technology
+ Shared processing with CONVERGE Pro
  > Faster acoustic convergence time
  > Better full-duplex operation
+ Mono & stereo modes for diverse applications
+ 24 microphone elements with 6 beams to cover 360 degrees
+ Twice the pick-up range of traditional microphones
+ Replaces 6 to 10 traditional microphones
+ Increases the overall talker-to-microphone distance
+ Increases the speech intelligibility for conferencing
+ Reduces reverberant and noise anomalies within the talkers audio
+ Eliminates residual echo in singletalk
+ Eliminates tonal anomalies in doubletalk
+ Longer tail length in echo cancellation improves clarity in acoustically challenging rooms
Familiar

+ Connects with CONVERGE Pro through the G-link expansion port
+ CONVERGE Console software for configuration
+ Signal processing Functions
  > Gating mixer
  > Gain functions
  > Mute functions
  > Filter functions
  > Noise suppression
  > Automatic level control
+ Mute button
  > Two capacitive touch buttons with LEDs on top of the unit at both ends
  > Blue LED indicates mic is ON; Red indicates mic is muted
  > Mute buttons can be disabled through software (for ceiling & wall)
+ Firmware upgrade through CONVERGE Pro unit through G-link
+ Used in existing and new projects by just upgrading the firmware & software
Scalable

+ Works with CONVERGE Pro mixers
  > 840T
  > 880
  > 880T
  > 880TA
+ Connects with CONVERGE Pro through a G-Link expansion port using CAT5-24AWG solid conductor RJ45 cable
+ Expandable to cover larger rooms / applications such as: training rooms, larger size conference rooms, etc.
+ Daisy-chain up to 3 units per each CONVERGE Pro
+ More than 3 Beamforming Microphone Array units can be connected by using another Converge Pro unit in the same stack.
+ Any two units can be placed between 200 feet away
+ Powered with standard PoE technology
+ PoE Power supply & Cable kit available
Beamforming Microphone Array - Applications

+ Board rooms
+ Conference Rooms
+ Training rooms
+ Court rooms
+ Executive offices
+ Houses of worship
+ Telepresence
Sample connection 1

One Beamforming Microphone Array, connected with One Converge Pro unit using G-link

PoE can be through standard Power-over-Ethernet Switch or through external PoE power supply
Sample connection 2

Multiple Beamforming Microphone Arrays (up to 3) are daisy-chained with One Converge Pro unit using G-link.

PoE can be through standard Power-over-Ethernet Switch or through external PoE power supply.

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Sample connection 3

One Beamforming Microphone Array connected with a stack of Converge Pro units using G-link

PoE can be through standard Power-over-Ethernet Switch or through external PoE power supply
Sample connection 4

Multiple Beamforming Microphone Arrays (up to 3) are daisy-chained with a stack of Converge Pro units using G-link.

PoE can be through standard Power-over-Ethernet Switch or through external PoE power supply.
Sample connection 5

Converge Pro stack with more than one 840T/880/880T/880TA units

More than 3 Beamforming Microphone Arrays are daisy-chained with a stack of Converge Pro units using G-link.

PoE can be through standard Power-over-Ethernet Switch or through external PoE power supply.

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# Part Numbers

<table>
<thead>
<tr>
<th>ClearOne SKU Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>910-001-003</td>
<td>Beamforming Microphone Array with 24 mic elements, beamforming adaptive steering, next generation AEC to work with selected Converge Pro products</td>
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<tr>
<td>910-001-004</td>
<td>PoE Power supply, Cable for Power and G-link cable for Beamforming Microphone Array</td>
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<tr>
<td>910-001-005</td>
<td>Ceiling Mounting kit for Beamforming Microphone Array</td>
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<tr>
<td>910-001-006</td>
<td>Wall Mounting kit for Beamforming Microphone Array</td>
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<tr>
<td>930-001-003</td>
<td>Beamforming Microphone Array bundled with PoE Power Supply, Cable for Power and G-link cable</td>
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For pricing, please contact ClearOne Sales Team