



MICROFLEX™ ADVANCE™

MXA910 Ceiling Array Microphone

The Microflex Advance Ceiling Array is a premium networked array microphone for AV Conferencing that captures best-in-class audio from above the meeting space. Proprietary Steerable Coverage™ technology allows to position pick-up areas throughout a room, with coverage more precise than shotgun microphones.

Configurable Coverage

Configure up to eight individual pick-up areas in three dimensions for uniform acoustic performance throughout the room and highest quality participant audio. For quick setup, each lobe can be automatically steered toward a participant using Auto Configuration in the browser-based control software.

Flexible Networking

Mix, route and manage the signals from up to eight coverage areas as discrete channels on a Dante network over a single Ethernet cable. An individual automix channel provides added flexibility.

Digital Signal Processing

Microflex Advance Ceiling arrays feature the new Shure IntelliMix™ DSP Suite for precise coverage settings, automatic mixing, equalization, and echo reduction.

Workflow Efficiency

The microphone includes multiple templates to speed initial setup and ten presets for importing or exporting array configurations.



Available in aluminum, black, and white finishes. All paintable.



Intuitive, browser-based software allows quick and simple configuration and setup.

Ceiling Array Coverage Examples

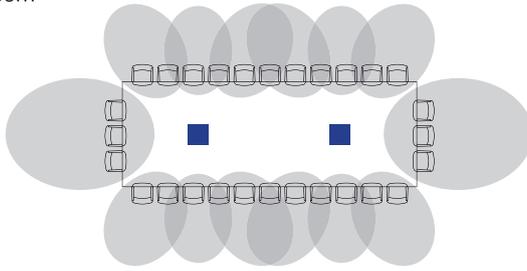
Large Conference Room

Profile

1 Rectangular Table
28 Chairs

Setup

2 Ceiling Arrays
14 Coverage Areas



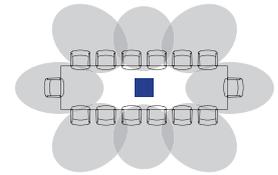
Medium-Size Conference Room

Profile

1 Rectangular Table
14 Chairs

Setup

1 Ceiling Array
8 Coverage Areas



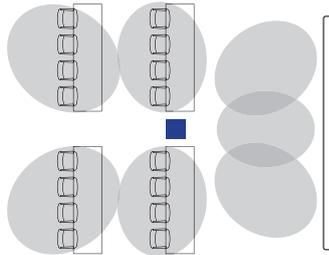
Multi-Purpose Room | Classroom Setup

Profile

4 Rectangular Tables
16 Chairs

Setup

1 Ceiling Array
7 Coverage Areas



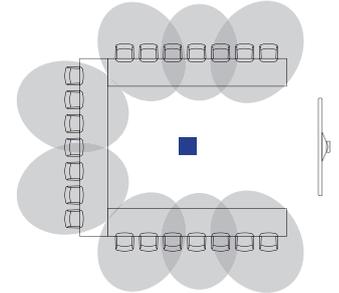
Multi-Purpose Room | Conference Setup

Profile

3 Rectangular Tables
21 Chairs

Setup

1 Ceiling Array
8 Coverage Areas



Mounting Options



All specifications measured from narrow beam width. Values for all widths are within ± 3 dB of these specifications unless otherwise noted.

Beam Width

Adjustable	Narrow	35 degrees
	Medium	45 degrees
	Wide	55 degrees

Connector Type

RJ45

Power Requirements

Power over Ethernet (PoE), Class 0

Power Consumption

9W, maximum

Weight

4.26 kg (9.4 lbs)

Dimensions

MXA910xx	603.8 x 603.8 mm (23.77 x 23.77 in.)
MXA910xx-60CM	593.8 x 593.8 mm (23.38 x 23.38 in.)
A910-25MM	619.7 x 619.7 mm (24.4 x 24.4 in.)

Note: the adapter accessory converts the 600 mm model to fit into a 625 x 625 mm ceiling grid.

Control Application

HTML5 Browser-based

Plenum Rating

Requires Firewrap® fire protective wrap system (Included)

UL 2043 (Suitable for Air Handling Spaces)

Dust Protection

IEC 60529 IP5X Dust Protected

Operating Temperature Range

-6.7°C (20°F) to 40°C (104°F)

Storage Temperature Range

-29°C (-20°F) to 74°C (165°F)

Networking

Cable Requirements

Cat 5e or higher (shielded cable recommended)

Audio

Frequency Response

180 to 17,000 Hz

Dante Digital Output

Channel Count	9 total channels (8 independent transmit channels, 1 IntelliMix® Automatic mixing transmit channel)
Sampling Rate	48 kHz
Bit Depth	24

Sensitivity

at 1 kHz

0.75 dBFS/Pa

Maximum SPL

Relative to 0 dBFS overload

93.25 dB SPL

Signal-To-Noise Ratio

Ref. 94 dB SPL at 1 kHz

83 dB A-weighted

Latency

Not including Dante latency

6 ms

Self Noise

11 dB SPL-A

Dynamic Range

82.25 dB

Built-in Digital Signal Processing

Per Channel	Equalizer (4-band Parametric), Mute, Gain (140 dB range)
System	IntelliMix® Automatic mixing, Echo Reduction

Intelligibility Scale

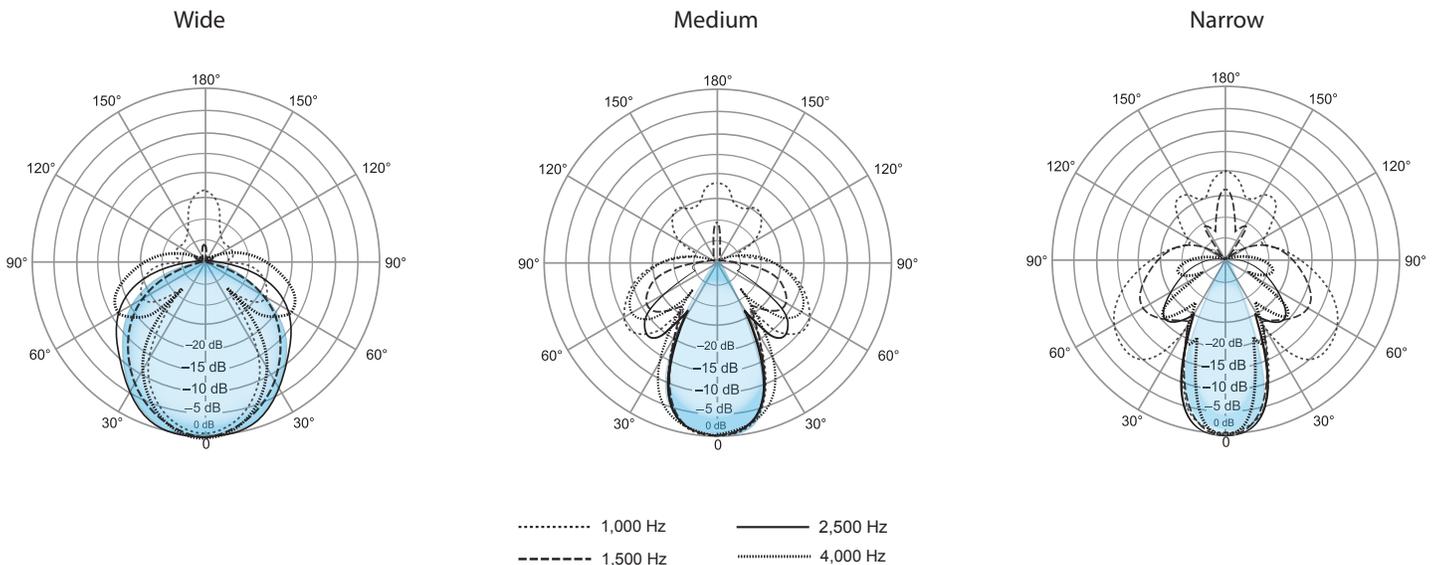
Equivalent acoustic performance, compared to a cardioid gooseneck microphone (environment dependent)

Cardioid distance multiplied by 1.6

[1] 1 Pa=94 dB SPL

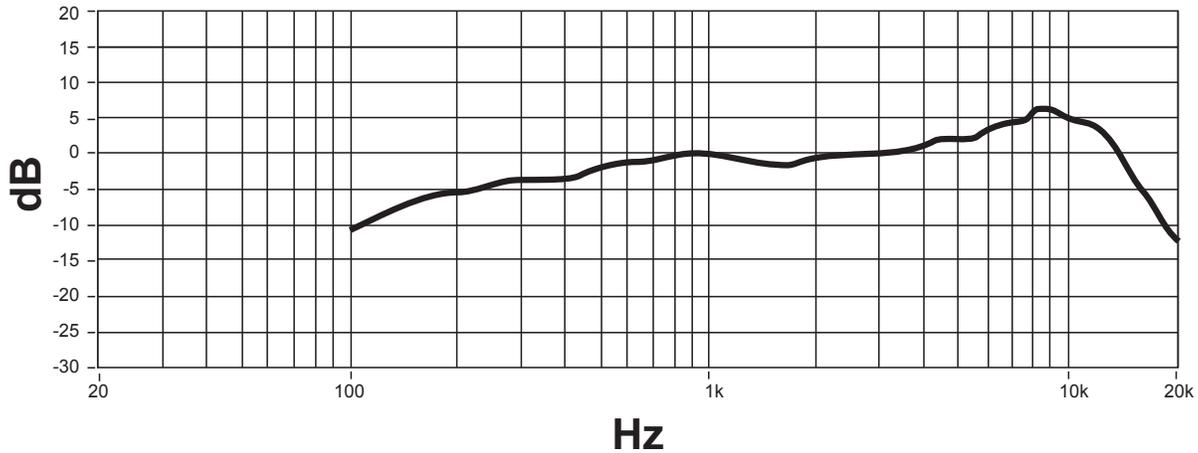
Polar Response

Polar response measured directly on-axis from a distance of 6 feet (1.83 m).



Frequency Response

Frequency response measured directly on-axis from a distance of 6 feet (1.83 m).



IP Ports and Protocols

Shure Control

Port	TCP/UDP	Protocol	Description	Factory Default
21	tcp	FTP	Required for firmware updates (otherwise closed)	Closed
22	tcp	SSH	Not supported	Closed
23	tcp	Telnet	Standard console interface	Closed
68	udp	DHCP	Dynamic Host Configuration Protocol	Open
80*	tcp	HTTP	Required to launch embedded web server	Open
427	tcp/udp	SLP†	Required for inter-device communication	Open
443	tcp	HTTPS	Not supported	Closed
161	tcp	SNMP	Not supported	Closed
162	tcp	SNMP	Not supported	Closed
843*	tcp	Flash	Required for web application	Open
2202	tcp	ASCII	Required for 3rd party control strings	Open
5353	udp	mDNS†	Required for device discovery	Open
5568	udp	SDT†	Required for inter-device communication	Open
8023	tcp	Telnet	Debug console interface	Password
8180*	tcp	Flash	Required for web web application	Open
8181*	tcp	Flash	Required for web web application	Open
8427	udp	Multicast SLP†	Required for inter-device communication	Open
64000	tcp	Telnet	Required for Shure firmware update	Open

Dante Audio & Controller

Port	TCP/UDP	Protocol	Description
162	udp	SNMP	Used by Dante
[319-320]*	udp	PTP†	Dante clocking
4321, 14336-14600	udp	Dante	Dante audio
[4440, 4444, 4455]*	udp	Dante	Dante audio routing
5353	udp	mDNS†	Used by Dante
[8700-8706, 8800]*	udp	Dante	Dante Control and Monitoring
8751	udp	Dante	Dante Controller
16000-65536	udp	Dante	Used by Dante

*These ports must be open on the PC or control system to access the device through a firewall.

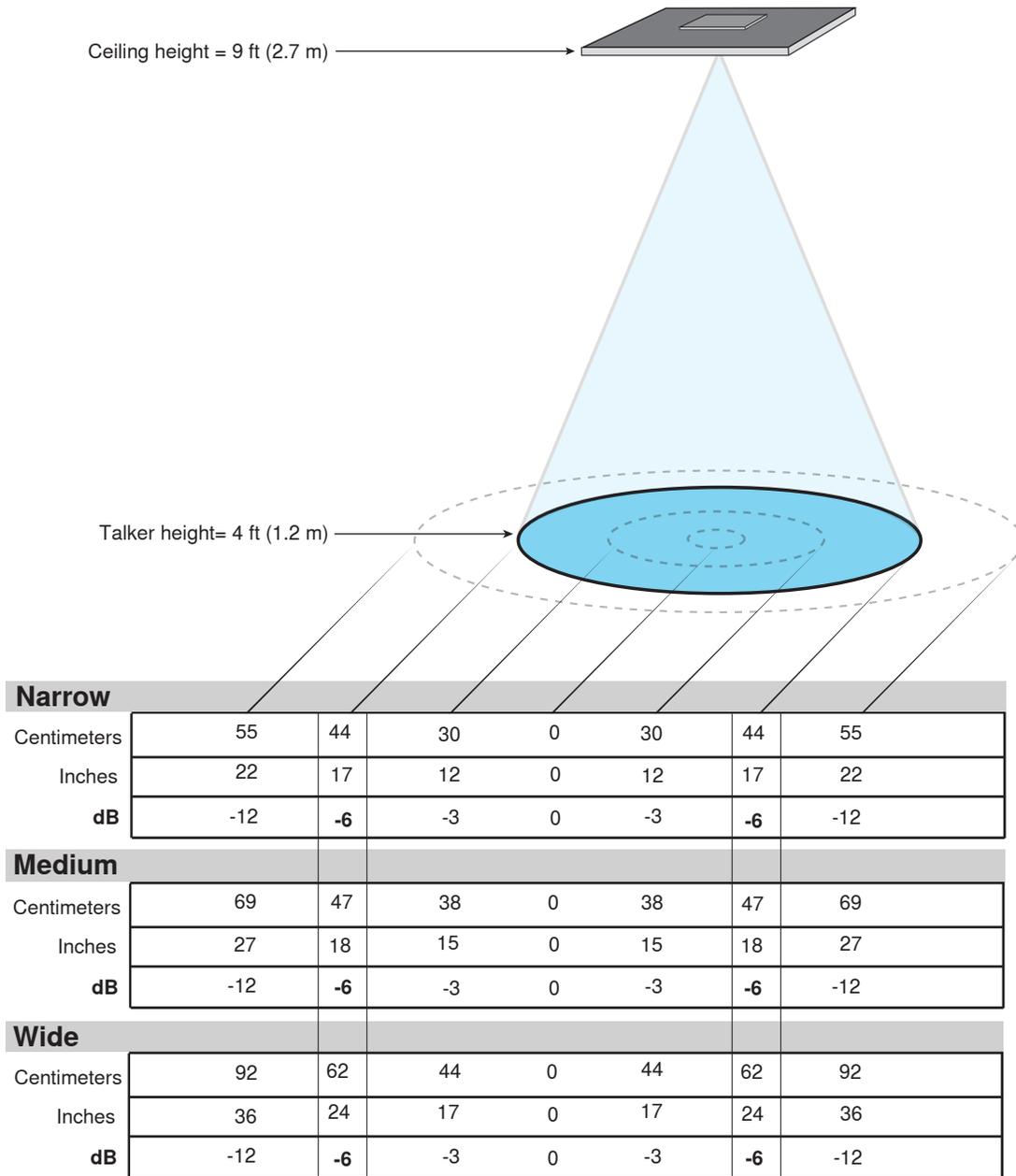
†These protocols require multicast. Ensure multicast has been correctly configured for your network.

Lobe Sensitivity

The edge of the blue coverage area for each channel in the web application represents where the sensitivity reaches -6 dB. Understanding how lobe sensitivity is displayed helps to:

- Provide complete coverage in a space, either by adding lobes or changing the lobe width. This ensures the sensitivity is within 6 dB in all areas. It is acceptable for lobes to slightly overlap.
- Ensure that spacing and isolation are adequate to reduce noise and maximize automatic mixing performance.

Measured at 1 kHz, on-axis



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