

# FOR AV CONFERENCING

MICROFLEX® ADVANCE™



the meeting is over.

Poor audio inhibits productivity and fatigues meeting participants. Superior audio can transform your meetings from an exhausting struggle into a forum that supports creativity and productive teamwork.

# WHY CHOOSE SHURE?

Shure is uniquely positioned as a leading audio equipment manufacturer serving corporate, education, government, broadcast/TV/film, and independent content creators. By choosing Shure, you will enjoy a range of benefits:

- Nearly 100-year heritage of technical leadership in high-quality audio, acoustics, wireless, DSP, software, and audio networking technologies.
- Broad product selection that can be customized to meet the needs of any user, space, or application – from simple to complex, small to large.
- Compatibility and certification with leading software and hardware collaboration platforms; compliance with international regulatory standards.
- Award-winning global support infrastructure.





# YOUR MXA ADVANTAGE

# ARCHITECT / INTERIOR DESIGNER

Microflex Advance enables architects and interior designers to create visually stunning workspaces without sacrificing sound quality.

# SYSTEM INTEGRATOR

The complete Shure networked systems ecosystem, from microphone to DSP to loudspeaker, enables your teams to deliver great AV solutions quickly and efficiently.

# **USERS**

Microflex Advance allows users to be more productive and creative. It enhances communication by allowing everyone to hear and be heard clearly, without distracting noise and echo.

# IT MANAGER / ADMIN

Microflex Advance integrates into your existing IT infrastructure, without affecting network performance. Scalable to any size, it makes AV/IT support less time consuming.

# **C-LEVEL EXECUTIVES**

Teams work more effectively when communication is natural and effortless. Microflex Advance makes poor audio a thing of the past.

# CFO / FINANCE DIRECTOR

Microflex Advance is a cost-effective audio solution that can be deployed across your organization, providing a consistent user experience backed by industry-leading support and reliability.

# MXA ARRAY TECHNOLOGY

Microflex Advance networked array microphones rely on a suite of advanced technologies to deliver accurate audio in any environment.

# PRECISE COVERAGE

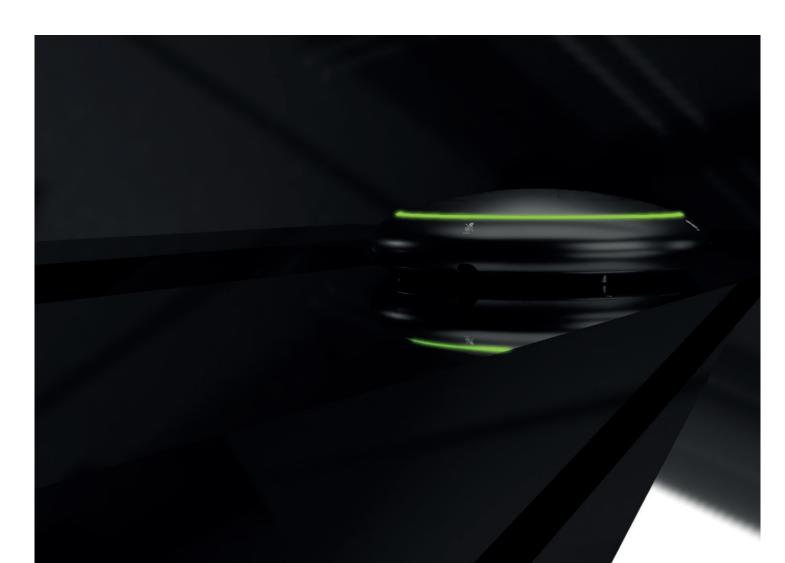
Controlling which sounds are picked up is the foundation of good audio. The MXA920 features Automatic Coverage™ technology that captures talkers in defined areas automatically. The MXA710 and MXA310 use Steerable Coverage™ technology that allows pickup lobes to be aimed where needed.

### POWERFUL DSP

Digital signal processing blends microphone signals into a harmonious mix. The MXA920 and MXA710 feature IntelliMix DSP that controls levels and eliminates noise and echo. The MXA310 includes automatic mixing and per-channel EQ for improved clarity.

# FLEXIBLE NETWORKING

Digital audio, power, and control data use Dante or AES67 to coexist on the same network as enterprise applications. Command strings enable integration with third-party systems for camera tracking or room control.





speech, the MXA920 is even easier to use and faster to deploy than the MXA910 for AV conferencing, camera tracking, voice lift, or sound reinforcement.

# COVERAGE WHERE YOU WANT IT

Automatic Coverage<sup>™</sup> technology captures up to a 30 x 30 foot (9 x 9 m) area automatically for great sound out of the box.

You can also place coverage areas in specific locations to limit audio capture to seating areas, a podium, or whiteboard.

# SEAMLESS INTEGRATION

Next-generation array architecture delivers more directional pickup at low frequencies for more natural sounding voice.

Onboard IntelliMix DSP with automatic mixing, echo cancellation, noise reduction, and automatic gain control provides a pristine audio mix.

# FITS YOUR ROOM DESIGN

Square or round form factors suit your interior design. Choose white, black, or aluminum finish (square available in white only), or paint to match room aesthetics.

Versatile hardware options support in-ceiling, on-ceiling, pole, or wirerope mounting.

# **READY FOR ANYTHING**

### **Camera Tracking**

Precise talker localization reports the position of simultaneous talkers for more accurate camera tracking.

### **Voice Lift**

Highly directional pickup allows audience members across the room to interact without the need for roving microphones.

# **Sound Reinforcement**

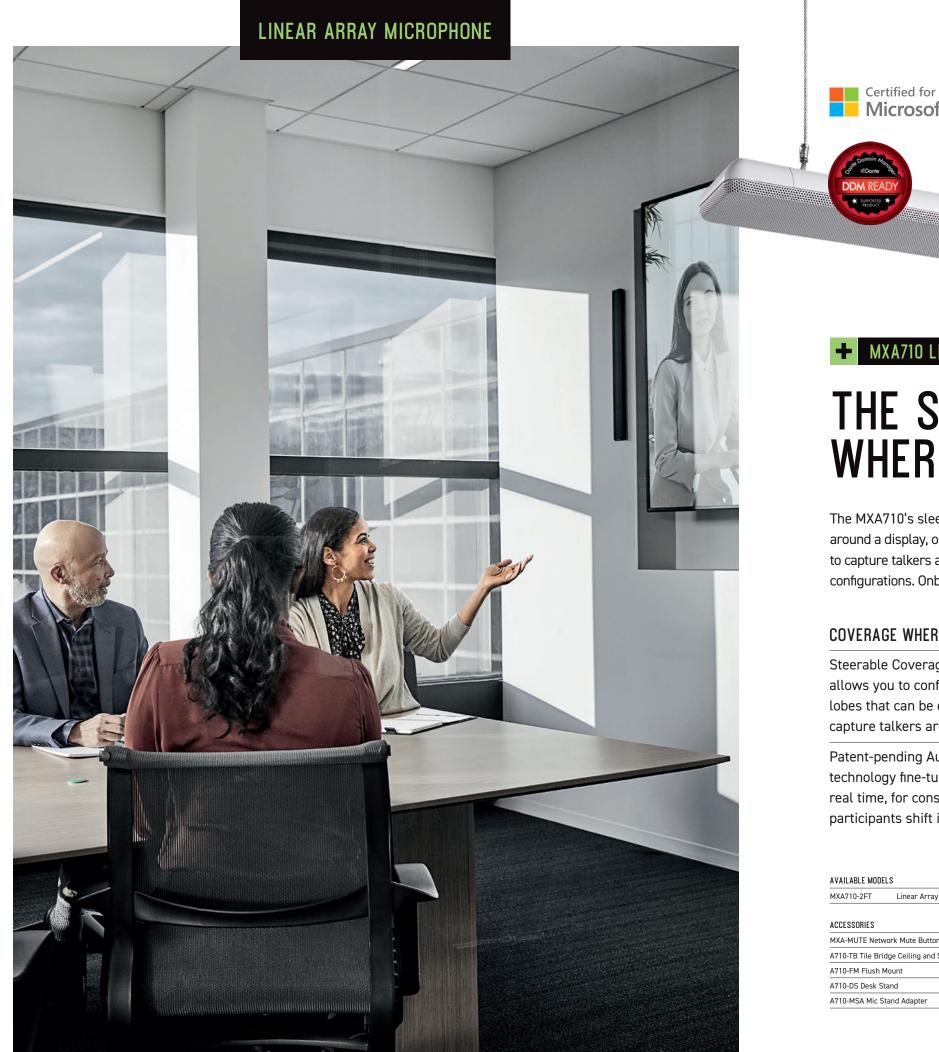
Precise coverage control enables presenters to be amplified without lavalier or gooseneck microphones.

### AVAILABLE MODELS

MXA920AL-R	Round Ceiling Array Microphone, 25-inch (aluminum)		
MXA920B-R	Round Ceiling Array Microphone, 25-inch (black)		
MXA920W-R	Round Ceiling Array Microphone, 25-inch (white)		
MXA920W-S	Square Ceiling Array Microphone, 24-inch (white)		
MXA920W-S-60CM	0W-S-60CM Square Ceiling Array Microphone, 60 cm (white)		

### ACCESSORIES

MXA-MUTE Network Mute Button	Touch-sensitive mute button with programmable switch and LED can control one or multiple MXA microphones or DSP units
A900-PM Pole Mounting Kit	Allows MXA910/920 microphones to be suspended using threaded rod or NPT pole $$
A900-GM Gripple Mounting Kit	Allows MXA910/920 microphones to be suspended from the ceiling using Gripple fittings
A910-HCM Hard Ceiling Mount	Allows MXA910/MXA920-S to be mounted flush in a hard or drywall ceiling
A910-JB Junction Box Adapter	Allows MXA910/MXA920-S to be connected to wiring in electrical conduit



# LINEAR ARRAY MICROPHONE



MXA710 LINEAR ARRAY MICROPHONE

# THE SLIM ALTERNATIVE WHERE SPACE IS LIMITED.

The MXA710's sleek, linear form factor allows for placement virtually anywhere in a meeting space — on a ceiling or wall, around a display, or recessed into the table. Steerable Coverage™ technology allows pickup lobes to be easily adjusted to capture talkers around the room. Available in two lengths and three colors to suit different interior designs and mounting configurations. Onboard IntelliMix DSP provides all the signal processing needed for echo- and noise-free audio.

# **COVERAGE WHERE YOU WANT IT**

Steerable Coverage technology allows you to configure 4 or 8 pickup lobes that can be easily adjusted to capture talkers around the room.

Patent-pending Autofocus™ technology fine-tunes audio pickup in real time, for consistent sound even if participants shift in their seats.

# SEAMLESS INTEGRATION

Onboard IntelliMix DSP with automatic mixing, echo cancellation, noise reduction, and automatic gain control provides a pristine audio mix.

Programming-free LED mute sync with popular software codecs when connected to IntelliMix P300 or ANIUSB-MATRIX.

# FITS YOUR ROOM DESIGN

Sleek linear form factor allows for placement virtually anywhere — on the ceiling or wall, around a display, or recessed into the table.

Choose white, black, or aluminum finish. Wall mounting bracket included; other mounting options available.

MXA710-2FT	Linear Array Microphone, 2 foot / 60 o	0 cm (aluminum, black, white) MXA710-4FT Linear Array Microphone, 4 foot / 120 cm (aluminum, black, white)		
ACCESSORIES				
MXA-MUTE Netv	vork Mute Button	Touch-sensitive mute button with programmable switch and LED can control one or multiple MXA microphones or DSP units		
A710-TB Tile Bri	dge Ceiling and Suspension Mount Kit	Mounts MXA710 directly to ceiling tiles or suspended from ceiling grids; use one for MXA710-2FT or two for MXA710-4FT		
A710-FM Flush I	Mount	Mounts MXA710 flush within a table, wall or hard ceiling surface		
A710-DS Desk S	tand	Mounts MXA710 to desk, credenza, or table		
A710-MSA Mic S	itand Adapter	Mounts MXA710 to any microphone stand in horizontal or vertical orientation		



# MXA310 TABLE ARRAY MICROPHONE

# PREMIUM SOUND WITHIN YOUR REACH.

The MXA310 is the ideal solution when great sound needs to be close at hand. Steerable Coverage<sup>™</sup> technology allows up to four separate polar patterns to be easily adjusted to capture multiple talkers around the table. A unique toroid polar pattern rejects overhead noise while picking up talkers all around the table. Built-in Shure DSP utilities optimize voice quality, integrated mute buttons place controls within easy reach.

# COVERAGE WHERE YOU WANT IT

Steerable Coverage technology allows you to configure 4 polar patterns to capture talkers around the table.

Unique toroid pattern picks up a 360-degree circle but rejects sound from overhead noise.

# NATURAL SOUND

Integrated automix output improves clarity by activating only mics being addressed.

Per-channel parametric EQ reduces noise pickup in rooms with poor acoustics.

# FITS YOUR ROOM DESIGN

Programmable touchsensitive mute buttons can control one mic, all mics, or external devices.

Discreet design with side or bottom cable exit installs on top of table or flush-mounted.







### AVAILABLE MODELS

ACCESSORIES
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A310-FM	Flush Mount	







# PLAN AMAZING AUDIO.

Simply set-up your Shure Audio Ecosystem with this free software. Deploy more rooms in less time enabling you with more efficiency and consistency. Design projects online and offline.



# PRE-CONFIGURED SETTINGS

Configure the Shure Audio Ecosystem for conferencing



# STEP AND REPEAT

Create templates based on common floor plans.



# PASS IT ON

Room configurations can be saved and shared with colleagues.



# SINGLE HUB

Firmware updating and Dante™ audio routing.

# CONQUER COMPLEXITY AND SCALE.

You can't be everywhere at once but everywhere can be with you. Update and monitor your Shure Audio Ecosystem remotely. From managing inventory and battery health in real-time and troubleshoot on the go.



# PEACE OF MIND

Stay one step ahead with text and email alerts for potential issues before they happen.



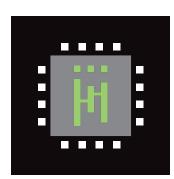
# TIME SAVING

Maximize control of your organization's audio and update firmware on the go.



# SECURE SYSTEM

Customize access and permissions for a tailored user experience





# AV THAT SPEAKS IT.

IntelliMix® Room, the first audio processing software fully optimized for Shure conferencing microphones. Simply download and deploy to in-room Windows 10 devices, and bring conferencing into the future. No custom setups or special hardware needed to enjoy crystal-clear audio on all video conference calls.



# THE HARDWARE'S ALREADY THERE.

IntelliMix® Room effectively turns the in-room PC into a Shure device. All configuration is managed in our Designer software and replicable through easy-to-use templates.



# DANTE ONBOARD.

Once the PC has IntelliMix Room onboard, it has Dante audio networking too. No other software license is needed to route audio to or from that PC.



# **ELIMINATE DISTRACTING SOUNDS.**

Version 3.1 includes the AI Denoiser audio processor - a powerful algorithm that eliminates the random noises that disrupt meetings, with virtually no audible effect on the speech.



# NO COMPLICATED AUDIO ROUTING.

IntelliMix Room installs with its own audio driver. Once selected from the Audio Device dropdown in the Soft Codec of choice, the client is ready to talk.



# ENTERPRISE-WIDE LICENSING.

A centrally managed license lets clients easily and effectively deploy the software through their global corporate network.



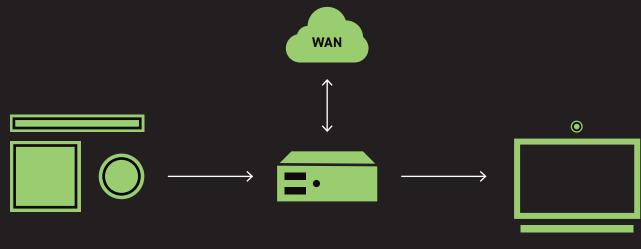
# PUT A STOP TO EAVESDROP.

All connected Shure devices feature Shure Audio Encryption, so the only ones to hear it are the ones on the call.



# MAKE SIMPLE THE NEW STANDARD.

Now all it takes to optimize audio is award-winning Shure MXA mics and a PC running a conferencing application and IntelliMix® Room.



MXA920, MXA710 or MXA310 In-Room Windows 10 PC

With IntelliMix Room App and Conferencing Software

Camera, Display, and Loudspeakers

**APPLICATIONS APPLICATIONS** 

# **APPLICATION FLEXIBILITY**

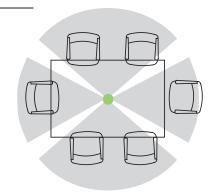
Match single or multiple arrays to the AV conferencing needs of rooms of any size, configuration or activity: formal presentations, intimate discussions, distance learning or collaborative work.

# TABLE ARRAY COVERAGE MAPS

Small Rectangular Table 1 Table Array

Profile 6 Chairs 1 Rectangular Table

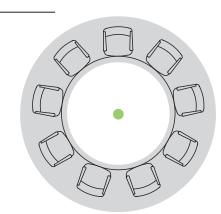
1 Bi-Directional Pattern 2 Cardioid Patterns



Medium Round Table 1 Table Array

> Profile 9 Chairs 1 Round Table

> > 1 Toroid Pattern



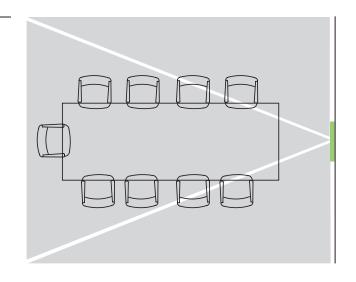
# LINEAR ARRAY COVERAGE MAPS

Small Rectangular Table MXA710-2FT Coverage Distance: Up to 16 ft Channels used: 3 of 4 Mic Coverage: Default

Horizontal Wall Installation

Profile 9 Chairs

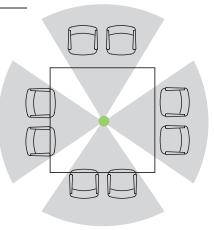
1 Rectangular Table





8 Chairs 1 Square Table

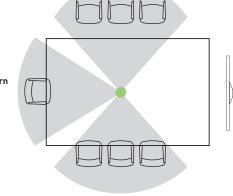
4 Supercardioid Patterns



Rectangular Table 1 Table Array

Profile 5 Chairs 1 Rectangular Table

1 Supercardioid Pattern 2 Cardioid Patterns



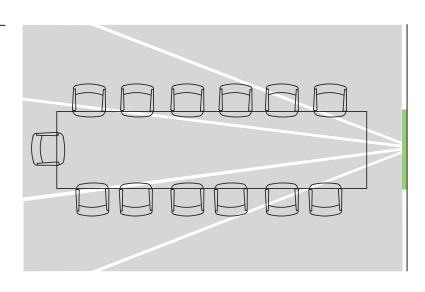
Large Rectangular Table MXA710-4FT

Coverage Distance: Up to 20 ft Channels used: 5 of 8 Mic Coverage: Custom/Optimized

Horizontal Wall Installation

Profile 13 Chairs

1 Rectangular Table



# **APPLICATIONS**

# **CEILING ARRAY COVERAGE MAPS**



# Large Conference Room

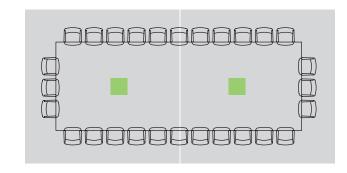
2 Ceiling Arrays

Profile

28 Chairs

1 Rectangular Table

2 Coverage Areas

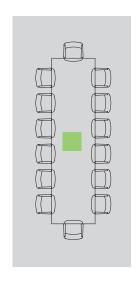




### Medium Conference Room 1 Ceiling Array

Profile 14 Chairs 1 Rectangular Table

1 Coverage Area



### \* Coverage Capabilities

Installed at a height of 3 meters (ten feet), Ceiling Arrays capture audio from seated participants to a recommended area of 9 meters (30 feet) in diameter, meeting the STIPA "A" intelligibility rating.

### \*\* Note:

Ceiling Arrays are capable of picking up participants beyond 9 meters (30 feet).

\*\* Room conditions:

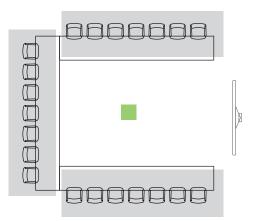
RT60 (reverb time) = 500 ms @ 1kHz, weighted room noise = 40dBSPL(A). IEC-602682-16.

### Videoconference Room 1 Ceiling Array

Profile 21 Chairs

3 Rectangular Tables

3 Coverage Areas





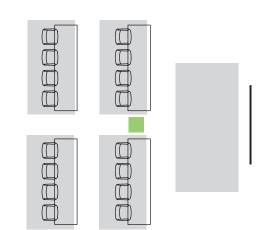
### Classroom / Presentation Room

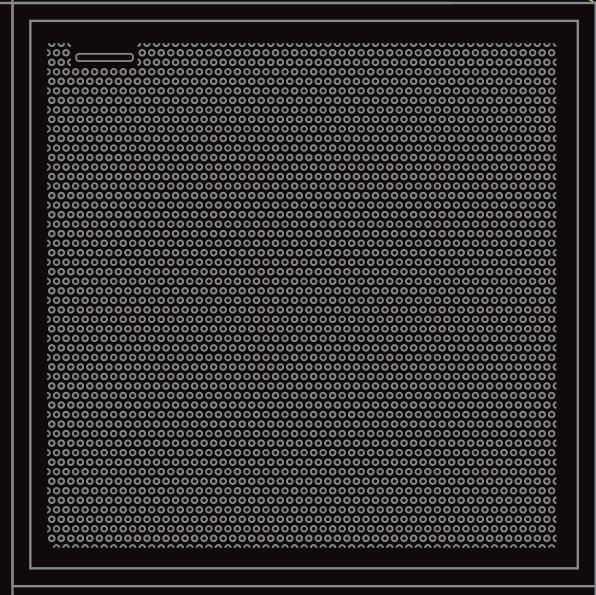
1 Ceiling Array

Profile 16 Chairs

4 Rectangular Tables

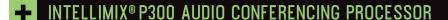
5 Coverage Areas





# BETTER TOGETHER.

Shure Networked Audio Processors and Interfaces guickly and easily integrate with Microflex Advance providing high-quality audio conferencing solution with extremely intelligible meeting sound.



The IntelliMix P300 Audio Conferencing Processor offers DSP algorithms optimized for AV conferencing applications with Microflex Advance microphones. Featuring acoustic echo cancellation, noise reduction and automatic gain control for up to 8 Dante channels, the P300-IMX helps to ensure echo- and noise-free conference room audio that facilitates communication 15 x 12 Matrix Mixer and collaboration. Easy to install and configure using Designer System Configuration software, the P300 provides Dante, analog, USB and mobile connectivity options that make joining room systems and collaborating with laptops and mobile devices easier than ever.

IntelliMix® DSP

10 Dante input channels, 8 output channels

2 analog audio inputs / 2 outputs

3.5mm Mobile input (1/8")

Easy deployment with Designer System Configuration

Single Ethernet connectivity

10 configuration presets

Third-party control system compatible

Dante Domain Manager ready

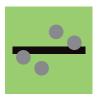
Power over Ethernet plus (PoE+)

8 Channels of Acoustic Echo Cancellation









# **AUDIO PERFORMANCE**

Enhanced meeting room audio for natural communication and better interaction in AV conferences with remote team members.



# INTUITIVE CONNECTIONS

Industry-first mute sync functionality when MXA microphones are connected to the P300 for better operation with leading third-party software codecs.



# **SIMPLICITY**

Pre-defined templates for system configuration reduce programming time, and allow installation within seconds.



# SHURE AUDIO ENCRYPTION

When using Microflex Advance together with the IntelliMix P300 Audio Conferencing Processor and selected Shure Audio Network Interfaces, Shure Audio Encryption with AES-256 encryption technology can help protect confidential content.







# **INSTALLATION**

# SHURE

# INSTALLATION SOLUTIONS

MXA920 Ceiling Array Microphones are designed for suspension, pole and flush mounting in metric or imperial formats. The sleek, linear form factor of the MXA710 allows for placement virtually anywhere in a meeting space, including on a wall, around a display, ceiling, or into a conference room table. MXA310 Table Array Microphones feature through-the-table mounting kits. The A310-FM mounting accessory also allows flush mounting in a table.



# MXA920 CEILING ARRAY MOUNTING OPTIONS

### Integrated Vibration Isolation

Prevents transmission of mechanical noise through the microphone.

UL 2043 suitable for air handling spaces and plenum compliant when

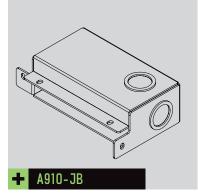
### **Dust Protection**

IEC 60529 IP5X Dust Protected



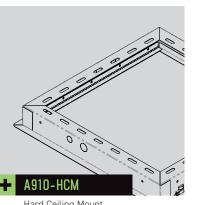






Allows the Ethernet cable connected to the array to be installed inside flex conduit





Hard Ceiling Mount

Can be pre-installed in the ceiling and the MXA920 installed later using the access door. Provides knockouts for conduit connections.





INSTALLATION FINISHES

# MXA310 TABLE ARRAY MOUNTING OPTIONS

# **★** TABLE ARRAY MOUNTING KIT (INCLUDED)

Cable management solutions for on-the-table or through-the-table applications; includes mounting tube/wingnut.

MXA310 retrofits existing Shure table mounted MX395, MX396, MX392 boundary microphones.

# + A310-FM FLUSH MOUNT (OPTIONAL)

Allows MXA310 Table Array to be mounted flush in the table; includes rubber isolation to prevent mechanical vibrations.

Available in black and aluminum finishes; paintable to match table surface.



# MXA710 LINEAR ARRAY MOUNTING OPTIONS

