MXN-6

Microflex™ Networked Pendant Loudspeaker

Shure MXN-6 networked pendant loudspeaker manual. Learn how to install the PoE-powered loudspeaker and how to control it in Designer with other devices.

Version: 0.2 (2025-E)

Table of Contents

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MXN-6 Overview

The Microflex MXN-6 Networked Pendant Loudspeaker provides high-quality speech reproduction for AV conferencing applications. The PoE-powered MXN-6 is the ideal loudspeaker solution when used as part of a Shure networked conferencing audio system. Combined with Microflex® Advance™ Array Microphones and IntelliMix® DSP solutions, the full Shure Microflex Ecosystem delivers premium audio performance with an unmatched ease of deployment.

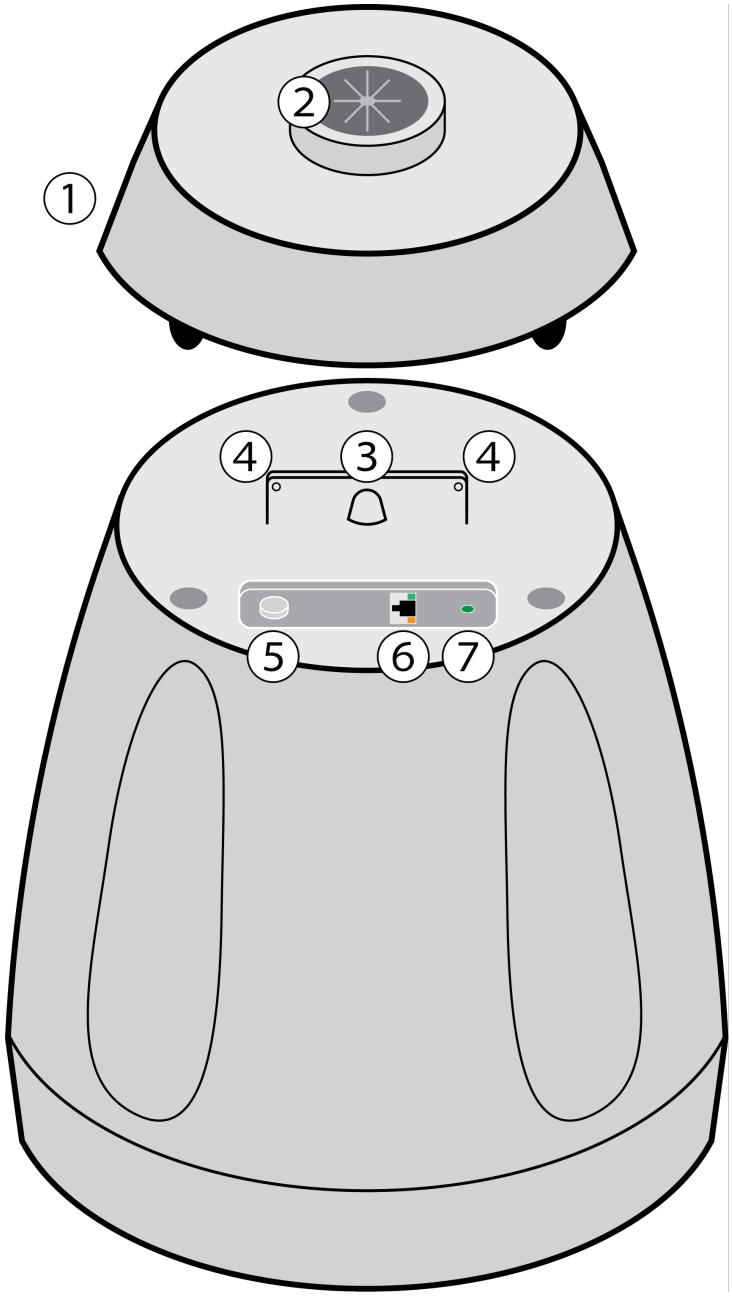
Features

- Pre-tuned frequency response optimized for voice intelligibility in AV conferencing applications
- 2-way driver system with 5.25-in. woofer (13.3 cm)
- PoE/PoE+ enabled, eliminates the need for an outboard amplifier
- 2 networked audio inputs, 1 networked audio output
- Integrated Shure DSP Utilities: EQ, delay, limiter, and signal/tone generator
- Dante and AES67 compatible
- Design and deploy every device in the Shure audio chain with Designer 6 System Configuration Software
- Streamlined management with real-time monitoring and updates from anywhere via ShureCloud
- Sleek, attractive industrial design compliments a wide variety of open ceiling installation types
- Supports standards-based security protocols to manage access and protect data, including 802.1X, secure boot/storage, and AES encryption for control and audio data
- Available in black or white, paintable

EASE Files Available

EASE files are available for this device at shure.com.

MXN-6 Parts



1. Back cover
2. Cable grommet
3. Attachment for mounting hardware
4. Secondary attachment points
5. Reset button
6. Network Ethernet port
   - Network speed LED (amber):
     Off = 10/100 Mbps
     On = 1 Gbps
   - Network status LED (green):
     Off = No network link

On = Network link established
Flashing = Network link active

7. Status LED

Status LED Behavior

LED Behavior	Device State
Solid green, then off	Device powering on
Green flashing for 30 seconds	Device identify
After 4 seconds, green flashing	Network reset
Green flashing after 4 seconds, green solid after 8 seconds	Full factory reset
Red	Error (Check event log for details)
Solid amber	Firmware update in progress

What's in the Box

- Pendant loudspeaker
- Back cover
- Loudspeaker grille

Model Variations

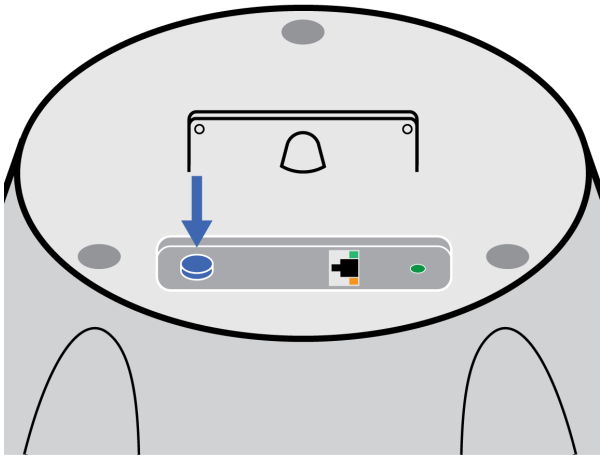
SKU	Description
MXN-6B	Black pendant loudspeaker
MXN-6W	White pendant loudspeaker

Remove the MXN-6 Grille

Insert a small object through a grille hole near the edge. Pull gently to remove the grille.

Reset Button

To access the reset button, remove the back cover.



Reset options:

Network reset (press button for 4-8 seconds)

Resets all Shure control and audio network IP settings to factory defaults. Power LED flashes green.

Full factory reset (press button for longer than 8 seconds)

Resets all network and Designer settings to the factory defaults. Power LED flashes green, then solid green after 8 seconds.

MXN-6 Control Software

There are 2 ways to control the MXN-6:

1. Use Shure Designer software
   - Control all Shure devices in one place
   - Route audio to and from Shure devices
2. Open the MXN-6's web application with Shure Update Utility
   - Control 1 loudspeaker at a time
   - To route audio, use Dante Controller software

Control Devices with Shure Designer Software

To control this device's settings, use Shure Designer software. Designer enables integrators and system planners to design audio coverage for installations using MXA microphones and other Shure networked devices.

To access your device in Designer:

1. Download and install Designer on a computer connected to the same network as your device.
2. Open Designer, and check that you're connected to the correct network in `File` > `Designer preferences`.
3. Click Online devices. A list of online devices appears.
4. To identify devices, select a device and click ID in the Properties menu. Double-click the device to open the settings.

From here, you can add devices to designs or online rooms and route audio to other Shure devices. Learn more at shure.com/designer.

Installation Guide

Install the Pendant Loudspeaker

To install, you will need:

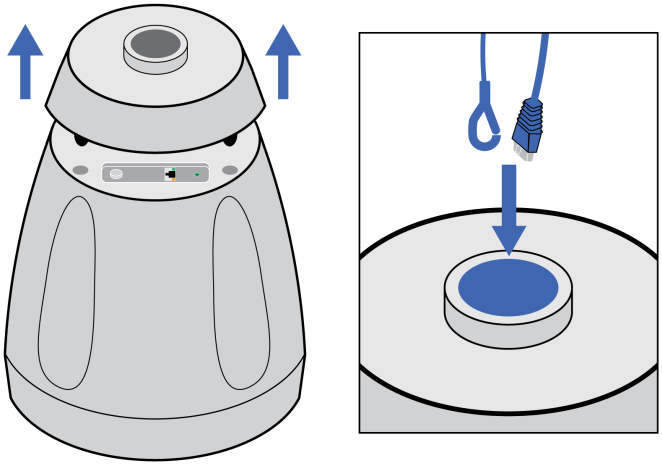
- MXN-6
- Shielded Cat5e (or better) Ethernet cable*
- Metal suspension cable or other high-strength wire with hook*
- Mounting hardware for metal cable*

*Not included

1. Attach suspension cable to a solid structural hanging point in the ceiling using appropriate hardware. Route the Ethernet cable next to the suspension cable.
2. Press the black plastic piece on the grille safety restraint into the hole near the woofer. Press the grille into place.

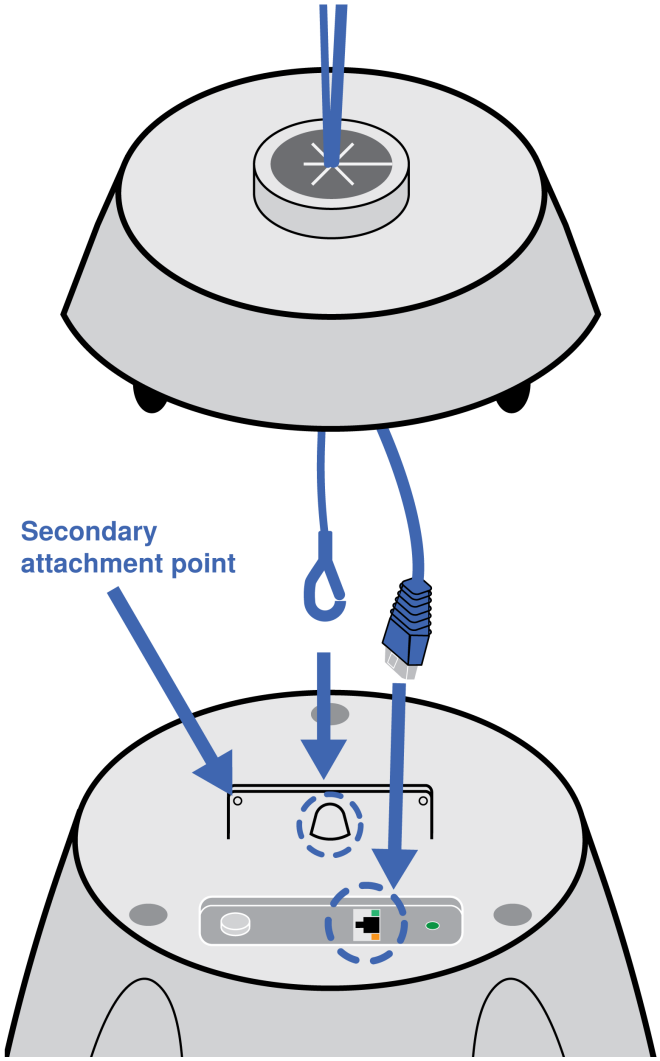
   Note: *If you're painting the loudspeaker, paint the grille before attaching.*

3. Remove the loudspeaker's back cover. Thread the suspension cable and Ethernet cable through the hole and install the rubber grommet.

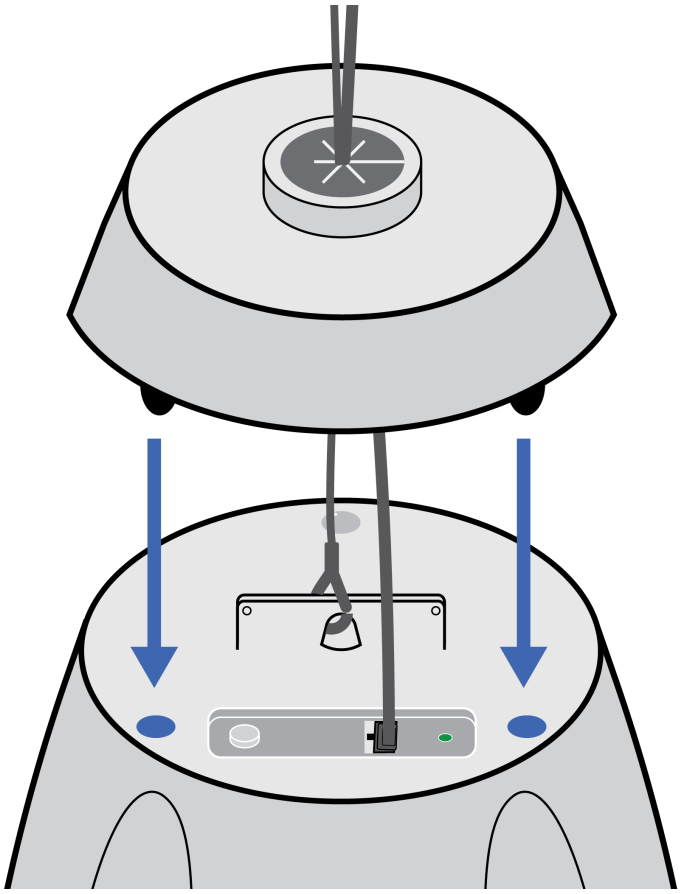


4. Clip the suspension cable's hook to the loudspeaker and plug in the Ethernet cable.

   For additional mounting security: Attach suspension cable to 1 of the loudspeaker's secondary attachment points and another attachment point on a solid structure in the ceiling. Follow any local regulations.



5. Press the back cover onto the loudspeaker.



Connecting to Power

This device requires Power over Ethernet Plus (PoE+) or PoE to power it.

Use one of the following to provide PoE+ or PoE:

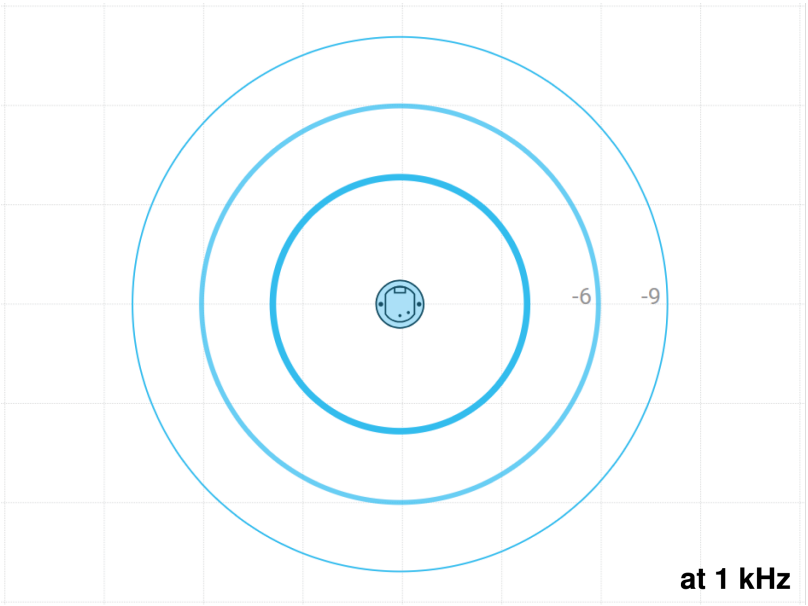
- Network switch with PoE+ or PoE
- PoE+ or PoE injector device

The PoE/PoE+ source must also be a gigabit device.

Set Device Height and Listener Height

To accurately display loudspeaker coverage, set the device height and listener height in Designer.

1. Add the loudspeaker to a room and go to `[Your room]` > `Coverage`.
2. Select the pencil icon in the corner to edit the room height, width, and length. Devices can't be set higher than the room height.
3. Select the loudspeaker and go to `Properties` > `Position` to adjust:
   - X/Y position in location grid
   - Device height
   - Listener height
4. Set the device height and listener height for accurate coverage information. The 3 rings represent −3, −6, and −9 dB at 1 kHz. The rings move as you adjust device height and listener height to show loudspeaker coverage.



EASE files are available at shure.com.

Send Audio to Networked Loudspeakers

Use Shure Designer software or Dante Controller to send audio to a Shure networked loudspeaker.

In Designer, the auto route feature is the easiest way to set up Shure devices in a room. Alternatively, you can make your own audio routes with Designer or Dante Controller.

- Send audio with Designer's auto route feature
- Create your own audio routes to loudspeakers

Use Designer's Auto Route

Designer's auto route speeds up the process of connecting systems with 1 audio processor and at least 1 microphone. Auto route also creates mute control routes in rooms with MXA network mute buttons. When you select Auto route, you can direct Designer to:

- Create audio routes and mute control routes
- Adjust audio settings
- Turn on mute synchronization
- Enable LED logic control for applicable devices

The settings are optimized for your particular combination of devices. You can adjust settings further, but auto route gives you a good starting point. Auto route works with any device in Designer.

To use auto route:

1. Place all relevant devices in a design.
2. Select Auto route. Designer optimizes microphone and DSP settings for your equipment combination.

   If you remove or add devices, select Auto route again.

   Note: The auto route process clears any manual routes you may have made in your design.

After auto routing a room, check and adjust settings to fit your needs. You may need to:

- Delete unnecessary routes.
- Check levels and adjust gain.
- Check that AEC reference signals are correctly routed and received in a test call.
- Fine-tune DSP blocks.
- Adjust your processor's matrix mixer routes.

If you want to auto route an online room, turn on online room editing in `File` > `Designer preferences`.

Note: Changes to an online room may cause audio to briefly drop out.

Refer to Designer's Troubleshooting section for help with routing.

Manually Create Audio Routes to Loudspeakers

Use Shure Designer or Dante Controller to manually send audio to networked loudspeakers. There are 2 ways to do this. Choose the way based on the Dante flow limit of the device sending audio to the loudspeakers.

Designer's auto route process automatically chooses the correct method for your devices.

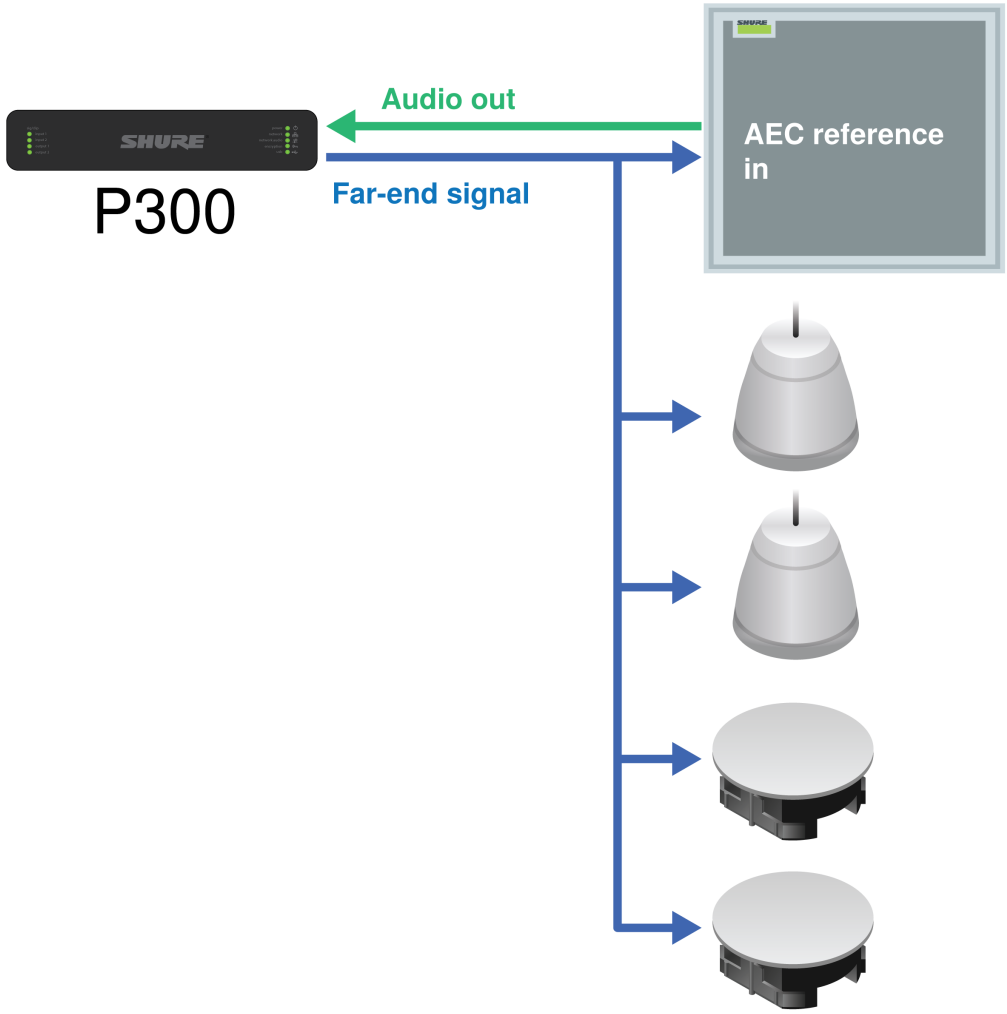
Learn more about Dante flows in our FAQs or from Audinate.

Option 1: Route Audio to Each Loudspeaker Individually

Use this method when:

- Signal comes from device with high Dante flow limit, such as a P300 **or**
- Signal comes from device with low Dante flow limit transmitting in multicast

High Dante flow limit: Route a signal to each loudspeaker individually.

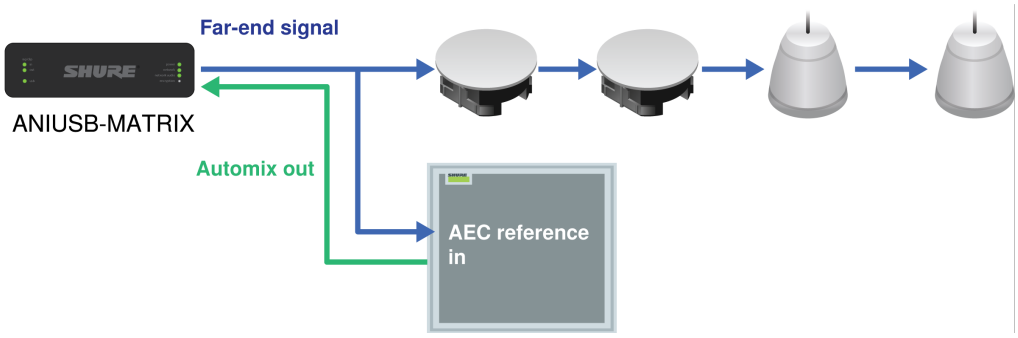


Option 2: Route Audio from Loudspeaker to Loudspeaker

Use this method when:

- Signal comes from device with low Dante flow limit, such as Shure ANI

Low Dante flow limit: Route from one loudspeaker to another using the Dante output channel.



1. In Designer, put all loudspeakers and other devices you want to route to in the same room.
2. Route the signal to the first loudspeaker.

3. Open the first loudspeaker's configuration window in Designer.
4. Choose Pre-DSP in the Dante output signal menu. This prevents DSP blocks from stacking on top of each other in the signal chain.
5. Use Designer or Dante Controller to route the signal from the first loudspeaker to the next one. Repeat this process for each additional loudspeaker.

Loudspeaker Dante Channels

The loudspeaker has 2 Dante input channels and 1 Dante output channel.

Dante Input Channels

The 2 Dante input channels are summed and sent to the loudspeaker's output. These input channels are useful if you need to send a far-end signal and program audio to the loudspeaker.

Dante Output Channel

The Dante output is useful if you need to send the loudspeaker's signal to another loudspeaker or to an AEC reference channel. There are 2 processing options for the Dante output signal:

Pre-DSP

Sends a pre-DSP signal to the Dante output (DSP is still applied to loudspeaker output). Use this option to send the signal to another loudspeaker. This option prevents DSP blocks from stacking on top of each other.

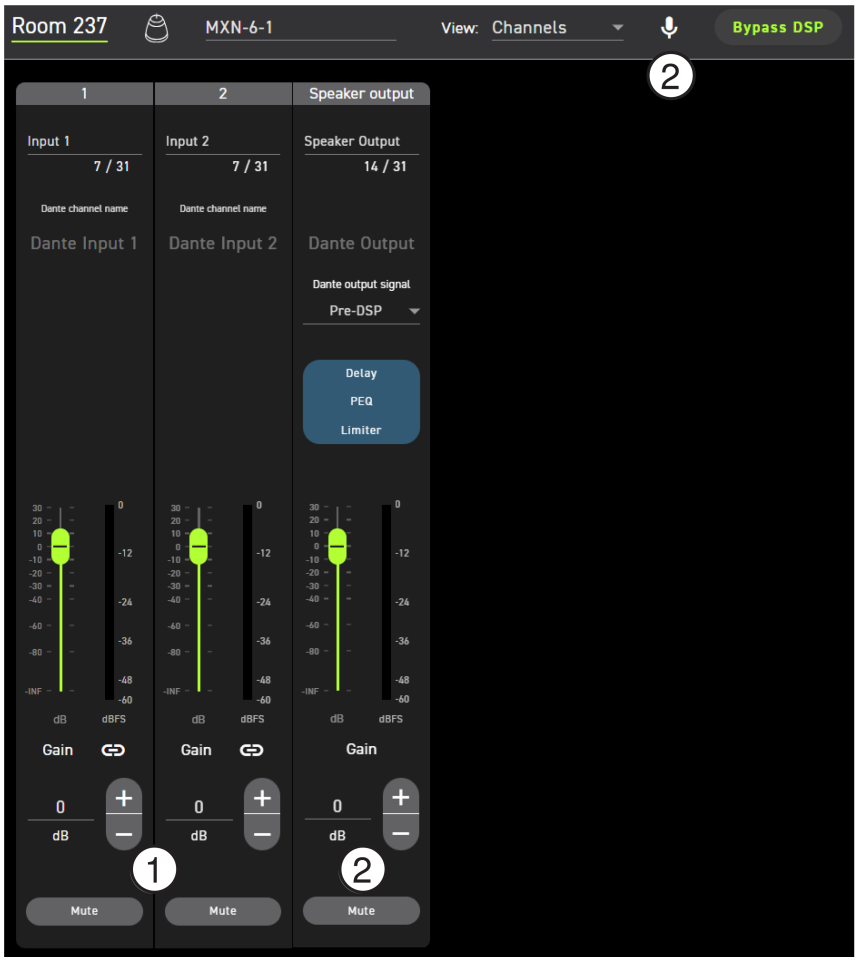
Post-DSP

Sends a post-DSP signal to the Dante output. Use this option to send the loudspeaker's signal to an AEC reference channel.

Muting the Loudspeaker

The loudspeaker has multiple mute points for different scenarios:

1. **Dante Input Mute:** Mutes the selected Dante input channel.
2. **Device Mute:** Mutes the speaker output and the Dante output channel.



Adjust DSP Settings

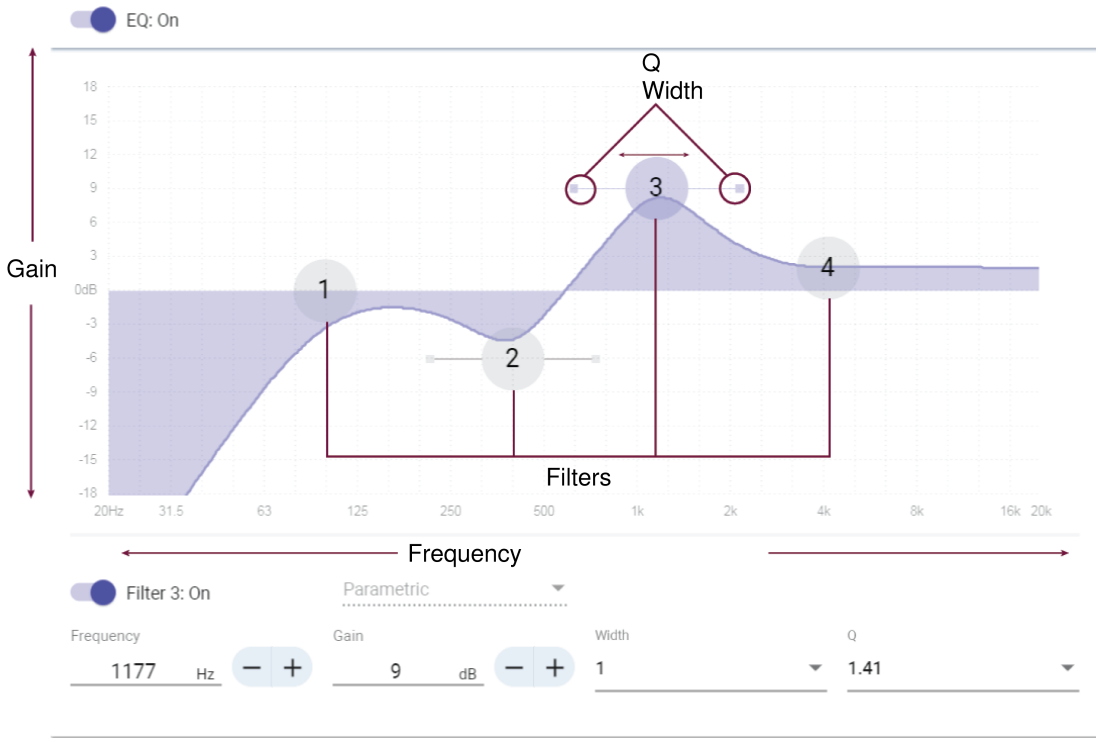
Parametric Equalizer (PEQ)

Maximize the loudspeaker's audio quality by adjusting the frequency response with the parametric equalizer (PEQ).

Common equalizer applications:

- Improve speech intelligibility
- Reduce room irregularities
- Tune system for even and consistent coverage

4-Band Equalizers



Filter Types:

Parametric: Attenuates or boosts the signal within a customizable frequency range.

Low Cut: Rolls off the audio signal below the selected frequency.

Low Shelf: Attenuates or boosts the audio signal below the selected frequency.

High Cut: Rolls off the audio signal above the selected frequency.

High Shelf: Attenuates or boosts the audio signal above the selected frequency.

Frequency

Select the center frequency of the filter to cut/boost..

Gain

Adjusts the level for a specific filter (+/- 18 dB).

Q

Adjusts the range of frequencies affected by the filter. As this value increases, the bandwidth decreases.

Width

Adjusts the range of frequencies affected by the filter. The value is represented in octaves.

Note: *The Q and width parameters affect the equalization curve in the same way. The only difference is the way the values are represented.*

Delay

If you're installing loudspeakers in a large area, you may need to time-align some speakers using delay. This ensures that the signal arrives to all parts of the room at the same time for even coverage.

Delay range: 0-160 ms

Limiter

Use the limiter to prevent output signals from clipping or distorting. To use, enter a dBFS value for the threshold. With the limiter enabled, the output signals will not exceed the threshold.

Note: This loudspeaker also has an internal safety limiter to protect the hardware. This limiter only turns on if the output signals reach the loudspeaker's maximum sound pressure level (SPL).

Signal Generator

The signal generator plays 4 different signals to help you tune your system and balance sound levels. Dante inputs get bypassed when you use the signal generator. The signal generator is pre-EQ, so you can apply EQ to the signal.

Gain adjustment at 0 dB is referenced to 76 dB SPL at 1 meter.

Pink noise

Equal energy per octave. Use to check levels and to verify coverage in multi-speaker installations.

White noise

Equal energy at each frequency. Use to check levels and to verify coverage in multi-speaker installations.

Sine wave

Plays a tone at the selected frequency. Use to check levels, assess comb filtering effects, and identify possible standing waves.

Sweep

Plays a tone at every frequency that the loudspeaker can reproduce, starting from the lowest frequency and sweeping up to the highest. Use to identify possible mounting deficiencies, such as rattling or buzzing.

Manage Devices in ShureCloud

Use ShureCloud to remotely view information about supported devices.

Refer to the ShureCloud user guide to learn how to add devices to your ShureCloud account.

Networking

Networking Best Practices

When connecting Shure devices to a network, use the following best practices:

- Always use a "star" network topology by connecting each device directly to the switch or router.
- Connect all Shure networked devices to the **same network** and set to the **same subnet**.
- Allow all Shure software through the firewall on your computer.

- Use only 1 DHCP server per network. Disable DHCP addressing on additional servers.
- Power on the switch and DHCP server before powering on the Shure devices.
- To expand the network, use multiple switches in a star topology.
- All devices must be at the same firmware revision level.

Switch and Cable Recommendations for Dante Networking

Switches and cables determine how well your audio network performs. Use high-quality switches and cables to make your audio network more reliable.

Network switches should have:

- Gigabit ports. 10/100 switches may work on small networks, but gigabit switches perform better.
- Power over Ethernet (PoE) or PoE+ ports for any devices that require power
- Management features to provide information about port speed, error counters, and bandwidth used
- Ability to switch off Energy Efficient Ethernet (EEE). EEE (also known as "Green Ethernet") may cause audio dropouts and problems with clock synchronization.
- Diffserv (DSCP) Quality of Service (QoS) with strict priority and 4 queues

Ethernet cables should be:

- Cat5e or better
- Shielded

For more information, see our FAQ about switches to avoid.

Setting Latency

Latency is the amount of time for a signal to travel across the system to the outputs of a device. To account for variances in latency time between devices and channels, Dante has a predetermined selection of latency settings. When the same setting is selected, it ensures that all Dante devices on the network are in sync.

These latency values should be used as a starting point. To determine the exact latency to use for your setup, deploy the setup, send Dante audio between your devices, and measure the actual latency in your system using Audinate's Dante Controller software. Then round up to the nearest latency setting available, and use that one.

Use Audinate's Dante Controller software to change latency settings.

Latency Recommendations

Latency Setting	Maximum Number of Switches
0.25 ms	3
0.5 ms (default)	5
1 ms	10
2 ms	10+

QoS (Quality of Service) Settings

QoS settings assign priorities to specific data packets on the network, ensuring reliable audio delivery on larger networks with heavy traffic. This feature is available on most managed network switches. Although not required, assigning QoS settings is recommended.

Note: Coordinate changes with the network administrator to avoid disrupting service.

To assign QoS values, open the switch interface and use the following table to assign Dante®-associated queue values.

- Assign the highest possible value (shown as 4 in this example) for time-critical PTP events
- Use descending priority values for each remaining packet.

Dante QoS Priority Values

Priority	Usage	DSCP Label	Hex	Decimal	Binary
High (4)	Time-critical PTP events	CS7	0x38	56	111000
Medium (3)	Audio, PTP	EF	0x2E	46	101110
Low (2)	(reserved)	CS1	0x08	8	001000
None (1)	Other traffic	BestEffort	0x00	0	000000

Note: Switch management may vary by manufacturer and switch type. Consult the manufacturer's product guide for specific configuration details.

For more information on Dante requirements and networking, visit www.audinate.com.

Networking Terminology

PTP (Precision Time Protocol): Used to synchronize clocks on the network
DSCP (Differentiated Services Code Point): Standardized identification method for data used in layer 3 QoS prioritization

Device IP Configuration

This Shure device uses 2 IP addresses: one for Shure control, and one for Dante audio and control. For most installations, the Shure control and Dante audio IP addresses should be in the same subnet range.

- **Shure control**
  - Carries data for Shure control software, firmware updates, and third-party control systems (such as AMX or Crestron)
- **Dante audio and control**
  - Carries Dante digital audio and control data for Dante Controller
  - Requires a wired, gigabit Ethernet connection to operate

To access these settings in Designer, go to `[Your device]` > `Settings` > `IP configuration`.

Note: Refer to our FAQ if you're using Shure profiles on NETGEAR M4250-series switches.

Ports, Protocols, and Firewall Rules

For information about IP ports and protocols or firewall rules, go to:

- IP Ports and Protocols for Shure Devices
- Firewall Rules for Shure Software Applications

Digital Audio Networking

Dante® digital audio is carried over standard Ethernet and operates using standard internet protocols. Dante provides low latency, tight clock synchronization, and high Quality-of-Service (QoS) to provide reliable audio transport to a variety of Dante devices. Dante audio can coexist safely on the same network as IT and control data, or can be configured to use a dedicated network.

Compatibility with Dante Domain Manager

This device is compatible with Dante Domain Manager software (DDM). DDM is network management software with user authentication, role-based security, and auditing features for Dante networks and Dante-enabled products.

Considerations for Shure devices controlled by DDM:

- When you add Shure devices to a Dante domain, set the local controller access to Read Write. Otherwise, you won't be able to access Dante settings, perform a factory reset, or update device firmware.
- If the device and DDM can't communicate over the network for any reason, you won't be able to control Dante settings, perform a factory reset, or update device firmware. When the connection is reestablished, the device follows the policy set for it in the Dante domain.
- If Dante device lock is on, DDM is offline, or the configuration of the device is set to Prevent, some device settings are disabled. These include: Dante encryption, MXW association, AD4 Dante browse and Dante cue, and SCM820 linking.

Refer to Dante Domain Manager's documentation for more information.

Dante Flows for Shure Devices

Dante flows get created any time you route audio from one Dante device to another. One Dante flow can contain up to 4 audio channels. For example: sending all 5 available channels from an MXA310 to another device uses 2 Dante flows, because 1 flow can contain up to 4 channels.

Every Dante device has a specific number of transmit flows and receive flows. The number of flows is determined by Dante platform capabilities.

Dante Flows for Shure Devices

Dante Platform	Shure Devices Using Platform	Transmit Flow Limit	Receive Flow Limit
Brooklyn II	ULX-D, SCM820, MXWAPT, MXWANI, P300, MXCWAPT	32	32
Brooklyn II (without SRAM)	MXA920, MXA910, MXA902, MXA710, AD4, AD600, APXD2	16	16
IP Core	MXA920-V3, MXA902-V3, MXA901	32	32
Ultimo/UltimoX	MXA310, ANI4IN, ANI4OUT, ANIUSB-MATRIX, ANI22, MXN5-C	2	2
DEP	ANIUSB-MATRIX-V3, MXN-AMP, MXN5-C-V3, MXN-6	2	2
DAL	IntelliMix Room	16	16

Learn more about Dante flows in our FAQs or from Audinate.

AES67

AES67 is a networked audio standard that enables communication between hardware components which use different IP audio technologies. This Shure device supports AES67 for increased compatibility within networked systems for live sound, integrated installations, and broadcast applications.

The following information is critical when transmitting or receiving AES67 signals:

- Update Dante Controller software to the newest available version to ensure the AES67 configuration tab appears.
- Before turning encryption on or off, you must disable AES67 in Dante Controller.
- AES67 cannot operate when the transmit and receive devices both support Dante.

Shure Device Supports:	Device 2 Supports:	AES67 Compatibility
Dante and AES67	Dante and AES67	No. Must use Dante.
Dante and AES67	AES67 without Dante. Any other audio networking protocol is acceptable.	Yes

Separate Dante and AES67 flows can operate simultaneously. The total number of flows is determined by the maximum flow limit of the device.

Sending Audio from a Shure Device

All AES67 configuration is managed in Dante Controller software. For more information, refer to the Dante Controller user guide.

1. Open the Shure transmitting device in Dante Controller.
2. Enable AES67.
3. Reboot the Shure device.
4. Create AES67 flows according to the instructions in the Dante Controller user guide.

Receiving Audio from a Device Using a Different Audio Network Protocol

Third-party devices: When the hardware supports SAP, flows are identified in the routing software that the device uses. Otherwise, to receive an AES67 flow, the AES67 session ID and IP address are required.

Shure devices: The transmitting device must support SAP. In Dante Controller, a transmit device (appears as an IP address) can be routed like any other Dante device.

Security

Shure Audio Encryption

Audio is encrypted with the Advanced Encryption Standard (AES-256), as specified by the US Government National Institute of Standards and Technology (NIST) publication FIPS-197.

Audio encryption is only supported among Shure devices. It is not supported with third-party devices.

Important: For encryption to work:

- Devices must be online and support encryption.
- Encryption must be turned on for all devices in the room.
- You must disable AES67 in Dante Controller. AES67 and AES-256 can't be used at the same time.

To turn on encryption:

In an online room, select  > `Audio encryption` > `Turn on encryption`. You can auto generate a key or enter one manually.

To re-key or turn off encryption:

In an online room, select  > `Audio encryption` and enter any passwords.

Set Up the 802.1X Protocol for a Device

Select Shure devices support the IEEE 802.1X port access protocol for network authentication.

Important: To use the 802.1X security protocol with Shure devices, set the network switch to multiple host authentication. You must also make accommodations to allow the audio NIC to connect to the network. The audio NIC doesn't support the 802.1X protocol.

Setting up 802.1X is a two-part process.

To set up 802.1X, you will need:

- Details about your authentication server's EAP method
- Any required credentials or certificates for that method, for example:
  - MD5 and PWD
    1. User ID and passphrase
  - TLS and PEAP
    1. User ID and passphrase
    2. Certificate (with certificate types) in the .PEM format
- Any passwords to access the devices if they are password locked

Step 1: Configure Settings on Test Network

1. Connect the device to your test network and discover it using Designer.
2. Set a device password if desired.
3. Double-click the device and go to `Settings` > `Network` > `802.1X`.
4. Choose your EAP method from the menu.
5. Enter any required credentials and load any necessary certificates.
6. Press Save to save the 802.1X settings to the device.
7. Enable 802.1X and select Reboot later.

Step 2: Connect to a Credentialed Network

1. Connect your device to the credentialed network.
2. Ensure that Designer is connected to the credentialed network.
3. Go to `Settings` > `Network` > `802.1X` and enable 802.1X. Reboot the device for the 802.1X settings to take effect.
4. If the device doesn’t appear in Designer after the reboot, reconnect to the test network and check all 802.1X settings for the selected EAP method.

Turn Off or Clear 802.1X Settings

You can turn off 802.1X settings temporarily, or clear them from the device. Open the device and go to `Settings` > `Network` > `802.1X`

- **Disable**: Click the 802.1X switch to turn off 802.1X settings. Click the switch again to enable 802.1X.
- **Clear**: Click Clear 802.1X settings to remove 802.1X settings from the device.

Note: Resetting to factory default clears all 802.1X settings.

Change 802.1X Settings

You may need to change a device's 802.1X settings if the enterprise's 802.1X settings are changing. The best way to do this is to change the 802.1X settings on the devices, and then make changes to the authentication server.

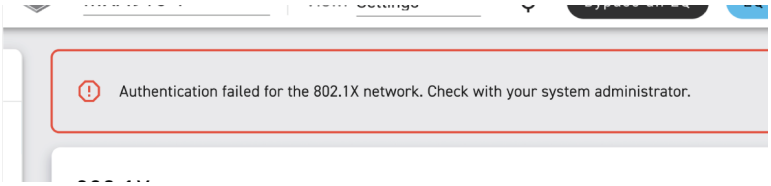
To change device settings:

1. While still connected to the credentialed network, find the device in Designer and go to `Settings` > `Network` > `802.1X`.
2. Make changes and click Save.
3. Make any changes to the authentication server.
4. Reboot your devices. The devices should connect to the credentialed network with the updated 802.1X settings.

Troubleshooting 802.1X Setup Issues

If the device doesn't appear in Designer on the credentialed network, there's a problem with the device's 802.1X settings. To troubleshoot, take the device off the credentialed network and connect it to the test network. You can make any necessary changes to the 802.1X settings, and then reconnect to the credentialed network.

If you attempt to enable 802.1X on a device, but the authentication fails, you will see this notification:



If this occurs, check with your system administrator.

Paint the Loudspeaker

MXN-6W models only

You can paint the exterior of the loudspeaker and the grille to match surroundings. For best results:

- Paint the grille before attaching it to the loudspeaker.
- Use a professional painting company.

1. Remove the back cover. Mask the area beneath it.
2. With the grille off, mask the bottom of the loudspeaker.
3. Remove the black grille cloth. Mask the thin lip around the edge of the grille. Reattach grille cloth after painting.

Additional Resources

- Shure Knowledge Base FAQs
- Command strings for Shure devices
- IP Ports and Protocols for Shure Devices
- Firewall Rules for Shure Software Applications
- Shure API documentation
- Shure Enterprise Networking Troubleshooting Checklist
- Training from the Shure Audio Institute

- Shure Systems YouTube channel

Download Shure Software

- Shure Designer
- ShureCloud
- Shure Update Utility
- Shure Web Device Discovery
- Software and firmware archive

MXN-6 Specifications

Connector Type

RJ45

Power Requirements

PoE+ Class 4 or PoE Class 0

Power Consumption

PoE+	24 W maximum (23 W typical)
PoE	12 W maximum (11 W typical)

Control Software

Shure Designer

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)

Frequency Range (-10 dB)

75 Hz to 20 kHz

Maximum Output Level

At 1 meter

PoE+	Pink Noise	96 dB SPL
	1 kHz Sine Tone	103 dB SPL
PoE	Pink Noise	92 dB SPL
	1 kHz Sine Tone	99 dB SPL

Coverage Angle

Average of 1 octave band centered on 4 kHz

110°

Digital Signal Processing

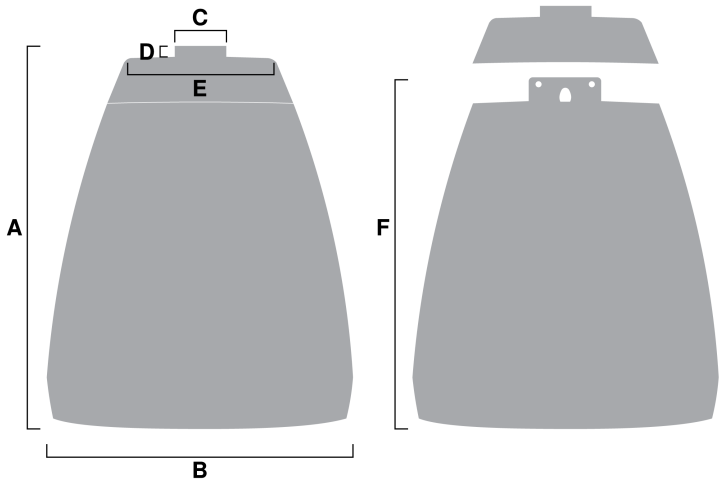
Delay, limiter, signal generator, equalizer (4-band parametric)

Latency

Not including Dante latency

1.23 ms

MXN-6 Dimensions



- A: 10.9 in. (278.5 mm)
- B: 9.05 in. (230 mm)
- C: 1.5 in. (38.03 mm)
- D: 0.35 in. (9 mm)
- E: 4.41 in. (111.99 mm)
- F: 10.03 in. (254.75 mm)

Weight

4.8 lbs (2.2 kg)

Explanation of Symbols

⚡	This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.
⚠	This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Important Safety Instructions

1. READ these instructions.
2. KEEP these instructions.

3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.
7. DO NOT block any ventilation openings. Allow sufficient distances for adequate ventilation and install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as open flames, radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not place any open flame sources on the product.
9. DO NOT defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.
12. USE only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
14. REFER all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. DO NOT expose the apparatus to dripping and splashing. DO NOT put objects filled with liquids, such as vases, on the apparatus.
16. The MAINS plug or an appliance coupler shall remain readily operable.
17. The airborne noise of the Apparatus does not exceed 70dB (A).
18. Apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.
19. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
20. Do not attempt to modify this product. Doing so could result in personal injury and/or product failure.
21. Operate this product within its specified operating temperature range.
22. Follow local regulations and consult qualified personnel if the product installation or relocation requires construction work. Choose mounting hardware and an installation location that can support the weight of the product. Avoid locations subject to constant vibration. Use the required tools to install the product properly. Inspect the product periodically.

WARNING:

- Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel. The safety certifications do not apply when the operating voltage is changed from the factory setting.
- If water or other foreign objects enter the inside of the device, fire or electric shock may result.

Important Product Information

EMC conformance testing is based on the use of supplied and recommended cable types. The use of other cable types may degrade EMC performance.

CE Notice

Hereby, Shure Incorporated declares that this product with CE Marking has been determined to be in compliance with European Union requirements.

The full text of the EU declaration of conformity is available at the following site: https://www.shure.com/en-EU/support/declarations-of-conformity.

EU Class A Warning

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

UKCA Notice

Hereby, Shure Incorporated declares that this product with UKCA Marking has been determined to be in compliance with UKCA requirements.

The full text of the UK declaration of conformity is available at the following site: https://www.shure.com/en-GB/support/declarations-of-conformity.

Cybersecurity STATEMENT OF COMPLIANCE

Product Type: Relevant connectable products defined as internet-connectable products or network-connectable products, in line with inter alia Product Security and Telecommunications Infrastructure Act 2022.

Manufacturer Statement: We, Shure Incorporated, certify and declare as manufacturer under our sole responsibility, that the above-mentioned product(s) conform(s) to the legislation as mentioned under Attachment 1 – to Cybersecurity Statement of Compliance listed here: https://www.shure.com/en-GB/about-us/security.

Information on how to report security issues: The latest version of Shure's Disclosure policy can be found at the following link: https://www.shure.com/en-GB/about-us/security

Security update periods: Shure provides support regarding hardware and software updates that continue the integral cyber security safety of Shure products up to 24 months after end of life (AEOL). For the full statement regarding Shure's product support policy, and information regarding products end of life status information can be found at the following link: https://www.shure.com/en-GB/about-us/security

Manufacturer:
Shure Incorporated 5800 Touhy Avenue
Niles, Illinois, 60714-4608 U.S.A. Website: www.Shure.com.

Technical documentation is kept at:
Shure Incorporated, Corporate Global Compliance Engineering Division

UK Importer/Representative:
Shure UK Limited
Unit 2, The IO Centre, Lea Road, Waltham Abbey, Essex, EN9 1AS, U.K.
Phone: +44 (0)1992 - 703058
Email: EMEAsupport@shure.de

On behalf of Manufacturer:

Chad Ayers
08 May 2025 Niles, Illinois
Senior Director, Global Compliance

FCC Notice

This product has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this product in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Notice: The FCC regulations provide that changes or modifications not expressly approved by Shure Incorporated could void your authority to operate this equipment.

For information regarding responsible party and other matters relating to FCC compliance, please contact Shure Incorporated, 5800 W. Touhy Avenue, Niles, Illinois 60714-4608 U.S.A. shure.com/contact

Canada, ISED Notice

Notice: The Industry Canada regulations provide that changes or modifications not expressly approved by Shure Inc. could void your authority to operate this equipment.

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

KCC Notice

이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.

BSMI Notice

警告：

為避免電磁干擾，本產品不應安裝或使用於住宅環境。

CNCA Notice

警告使用者： 此为A级产品。在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对其干扰采取切实可行的措施。

Regulatory Model Number (RMN)

For regulatory identification purposes your product has been assigned a regulatory model number (RMN). This regulatory model number should not be confused with product number, as below.

RMN: MXN6	**Product Numbers:** MXN-6B/MXN-6W

Environmental Regulatory Information

Waste Electrical and Electronic Equipment (WEEE) Directive

In the European Union and the United Kingdom, this label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.

Registration, Evaluation, Authorization of Chemicals (REACH) Directive

REACH (Registration, Evaluation, Authorization of Chemicals) is the European Union (EU) and the United Kingdom (UK) chemical substances regulatory framework. Information on substances of very high concern contained in Shure products in a concentration above 0.1% weight over weight (w/w) is available upon request.

Recycling Information

Please consider the environment, electric products and packaging are part of regional recycling schemes and do not belong to regular household waste.

中国 RoHS

部件名称	有害物质									
	Pb	Cd	Hg	Cr(VI)	PBB	PBDE	DBP	BBP	DIBP	DEHP
电路模块	X	○	○	○	○	○	○	○	○	○
金属模块	X	○	○	○	○	○	○	○	○	○
线缆及其组件	X	○	○	○	○	○	○	○	○	○
电源适配器*	X	○	○	○	○	○	○	○	○	○
锂电池组*	X	○	○	○	○	○	○	○	○	○

注 1: ○: 表示该有害物质在该部件所有均质材料中的含量均不超出电器电子产品有害物质限制使用国家标准要求。
X: 表示该有害物质至少在该部件某一均质材料中的含量超出电器电子产品有害物质限制使用国家标准要求。
注 2: 本产品大部分的部件采用无害的环保材料制造，含有有害物质的部件皆因全球技术发展水平的限制而无法实现有害物质的替代。
注 3: 以上未列出的部分,表明其有害物质含量均不超出电器电子产品有害物质限制使用国家标准要求
*:表示如果包含部分

臺灣 RoHS

設備名稱：網路揚聲器　　型號（型式）：MXN6

Equipment name: Microflex Networked Loudspeaker　Type designation (Type): MXN6

單元Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr^{+6})	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
印製電路板	—	○	○	○	○	○
線材	—	○	○	○	○	○
金屬件	—	○	○	○	○	○
箱體	○	○	○	○	○	○

備考1. 〝超出0.1 wt %〞及〝超出0.01 wt %〞係指限用物質之百分比含量超出百分比含量基準值。

Note 1：“Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2. 〝○〞係指該項限用物質之百分比含量未超出百分比含量基準值。

Note 2：“○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3. 〝—〞係指該項限用物質為排除項目。

Note 3：The “—” indicates that the restricted substance corresponds to the exemption.

有關於台灣進口商的資訊, 請參考產品標籤上的 BSMI 檢驗標識號碼 （例如：R35393 代表益誠國際驗證股份有限公司/臺北市中山區長安東路 2 段 108 號 7 樓之 5)