

**SHURE**

**MXWAPX**

MXW neXt 4 / 8 Quick Start Guide

Quickstart guide for APX.  
Version: 0.1 (2024-G)

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# MXWAPX

## MXW neXt 4 / 8 Quick Start Guide

### MXWAPX4, MXWAPX8

#### Important Note

The complete Regulatory Notices for this product are available online. For complete Regulatory Information for your product, please check the soft copy of the product user guide at <https://www.shure.com/docs>.

### Safety and Regulatory Information for Wireless Products

#### Important Note

The complete Regulatory Notices for this product are available online. For complete Regulatory Information for your product, please check the soft copy of the product user guide at <https://www.shure.com/docs>.

### 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.

## MXW neXt System

MXW neXt is a complete solution for meeting room and presentation applications. Developed with Dante<sup>®</sup> technology by Audinate, digital audio is routed over standard IP equipment across a network of access points, digital-to-analog converters, and computers. Access points add wireless, analog, and USB audio to the installation. RF coordination is automatic and continuous, offering worry-free wireless audio transmission for every event.

### MXW neXt System Components

#### ① MXW-X Microphones

Wireless microphones are available in bodypack, handheld, boundary, and gooseneck models.

#### ② Access Point Transceiver (APX4 / APX8)

Sleek and unobtrusive, the APX mounts to a wall or ceiling to provide direct, line-of-sight wireless connection to the microphones. The APX automatically manages the RF spectrum, ensuring consistent, stable audio transport from the microphones to the digital network. Features IntelliMix™ DSP functionality, microphone linking, and +2 channel configuration when paired with LIC2.

#### ③ Networked Docking Station (NDX4 / NDX4G / NDX8 / NDX8G)

The networked docking station enables microphone linking to connected access points, recharges microphones without battery removal, and networks battery status for remote monitoring. Networkable via Ethernet or wireless LAN, docking stations also feature an internal power supply and are powered by USB-C.

NDX4 and NDX8 are compatible with bodypack, handheld, and boundary microphones, NDX4G and NDX8G are compatible with boundary and gooseneck microphones.

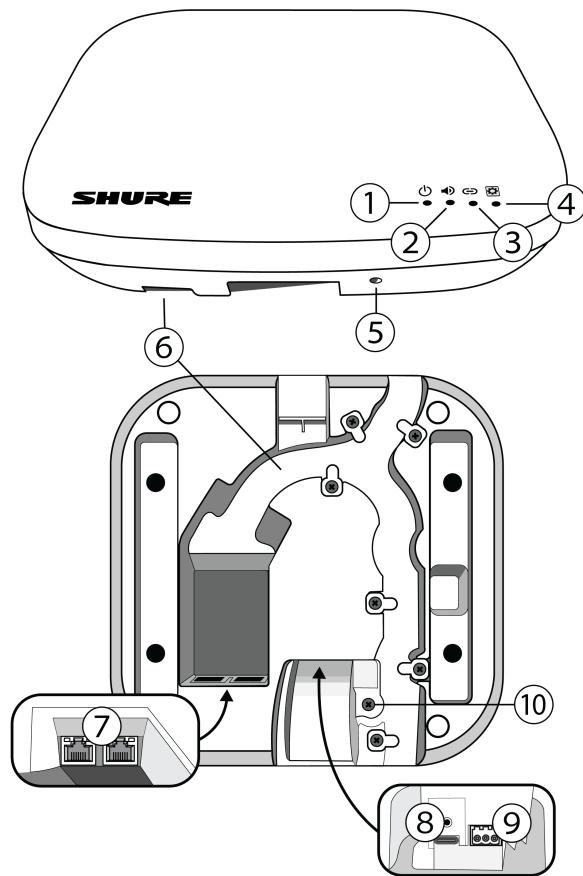
#### ④ Control Software

The control software allows comprehensive remote management of the MXW neXt system. It operates in a web browser when networked to a computer.

### APX4/APX8 Access Point

MXW neXt APX4 and APX8 access points feature 4 or 8 wireless audio channels, on-board analog, Dante, and USB-C audio connections, and IntelliMix functionality. Integration with additional MXW neXt hardware and Shure's Designer software enables all-in-one monitoring and control tailored to your specific application.

#### APX Hardware Callouts



#### ① Power LED

Indicates power status and other features.

**② Audio OUT LED**

Indicates when any of the audio outputs is carrying an active audio signal.

**③ Link LED**

Indicates link status of wireless microphones.

**④ Status LED**

Indicates whether the device is operating normally.

**⑤ Reset Button**

Press and hold for 5-8 seconds to reset network settings.

Press and hold for more than 8 seconds to reset the device to factory default settings.

**⑥ Cable Routing Path**

Provides a path for the Ethernet cable to enable a flush-mount to the ceiling or wall.

**⑦ RJ45 Connectors**

Compatible with Ethernet connections (switched, split, or redundant networking) and Dante audio devices.

**⑧ Locking USB-C Audio Connector**

Supports USB audio input and output.

**⑨ Analog Audio Output**

Block connector for analog audio.

**⑩ Chassis Ground Screw**

Provides an external connection point to the chassis ground of the device.

**APX LED Behavior\***

Color	Status	Description	LED
Green	Solid	Functioning as expected.	Power Network Audio Link Status
	Flashing	Factory reset in progress.	Power
Yellow	Flashing	Network reset in progress.	Power
	Alternating with Green	Network redundancy break.	Network Audio
Blue	Solid	BLE link to NDX is active.	Status
	Alternating with Red	BLE link error.	Status

Color	Status	Description	LED
	<b>Flashing</b>	Wireless linking in progress.	Link
Red	Solid	System error.	Power Network Audio
		<b>No microphones linked.</b>	Link
	<b>Flashing</b>	Firmware update in progress.	Power
		<b>Clock synchronization error.</b>	Network Audio
Off	—	No digital audio channel routing established.	Network Audio
		<b>Linked microphone is off or unavailable.</b>	Link

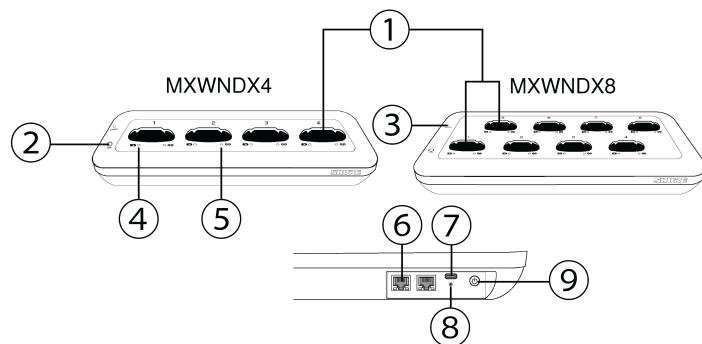
\* Customize LED behavior from *Settings > Lights*.

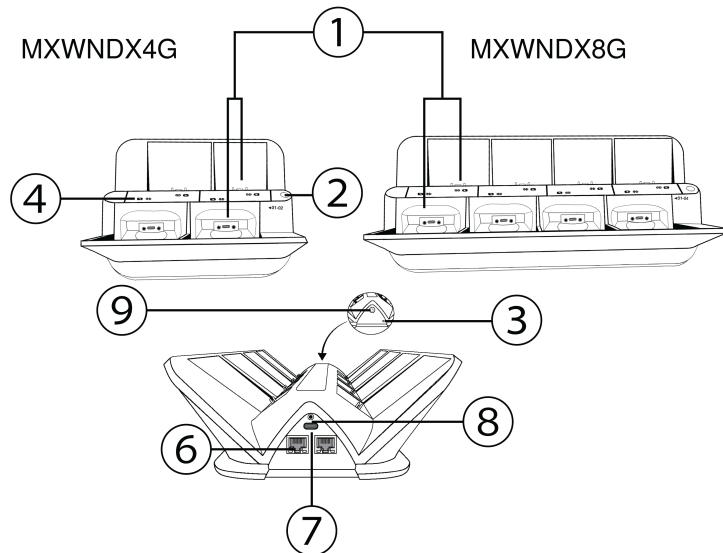
## NDX4/NDX4G/NDX8/NDX8G Networked Docking Station

NDX4/8 and NDX4G/8G networked docking stations can charge 4 or 8 transmitters without removing the battery, link microphones to wireless audio channels on associated access points, and share battery statistics with networked control software. Integration with additional MXW neXt hardware and Shure's Designer software enables all-in-one monitoring and control tailored to your specific application.

NDX4 and NDX8 are compatible with bodypack, handheld, and boundary microphones, NDX4G and NDX8G are compatible with boundary and gooseneck microphones.

### NDX Hardware Callouts





## ① Docking Bays

Connect and charge MXW neXt microphones:

- NDX4 / NDX8: 4 or 8 handheld, bodypark, or boundary microphones
- NDX4G / NDX8G: 4 or 8 boundary or gooseneck microphones

## ② Link Button

Press and hold to link docked microphones. Microphones are successfully linked when the link LED stops flashing and the microphone display confirms successful link.

**Note:** Pressing the Link button when mics are present in the charging bays will overwrite any previously-linked microphones. Lock the Link button from the Settings pane of the control software.

## ③ Power LED

Indicates that the networked docking station is connected and powered on.

## ④ Battery LED

Indicates charging status for docked microphone.

## ⑤ Link Indicator LED

- Amber: Bay is not associated with an APX audio channel.
- Off: Bay is associated with an audio channel, but no microphone is linked.
- Green: Associated audio channel is linked to a microphone.

## ⑥ Ethernet Ports

Connect to an access point to associate charging bays with wireless audio channels and enable advanced monitoring and control. Daisy-chain up to 5 networked networked docking stations to reduce Ethernet port requirements and cabling.

## ⑦ Power Connector

Locking USB-C power input. To ensure reliable operation of the product, use only with the included 5V 3A power supply, or a Shure-approved equivalent.

If any other power supply is used, a continuous, stabilized supply of minimum 5V 3A is required for reliable operation.

## ⑧ Reset Button

Press and hold for 5-8 seconds to reset network settings.

Press and hold for more than 8 seconds to reset the device to factory default settings.

## ⑨ Power Button

Powers networked docking station on or off.

# Microphone Transmitters

MXW neXt microphones transmit an encrypted, wireless audio signal to the access point. Three form factors are available:

### Hybrid Bodypack (MXW1X)

The bodypack secures to a belt or strap for hands-free, mobile communication. It features a TQG input for lavalier connection and an integrated omnidirectional microphone.

### Handheld (MXW2X)

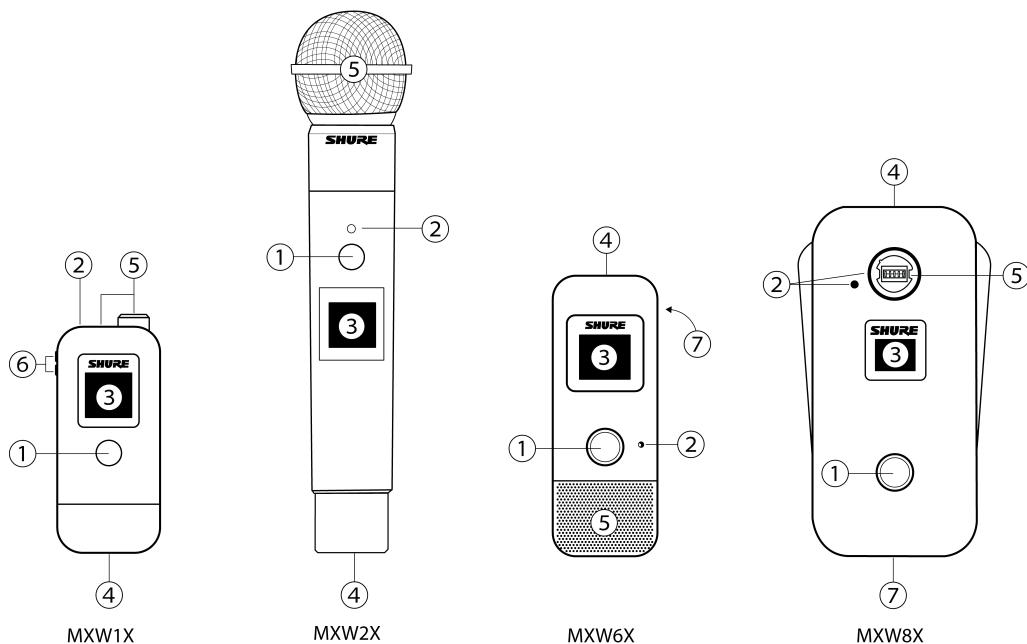
The handheld enables presenters to communicate using legendary Shure SM58, SM86, BETA58 and VP68 microphone cartridges.

### Boundary (MXW6X/C, MXW6X/O, MXW6XW/C, MXW6XW/O)

The boundary transmitter sits on a table or desk to transmit speech while discreetly blending into any conference environment.

### Desktop Gooseneck Base (MXW8X, MXW8XW)

The gooseneck base is compatible with 5", 10", and 15" Microflex gooseneck microphones.



## Microphone Hardware Callouts

### ① Mute/Active Button

Changes the audio status from Active to Mute, or Mute to Active. Button behavior for some transmitter types can be set independently from the Preferences tab of the control software.

*Note: For MXW1X and MXW2X, press and hold the Mute/Active button for 3 seconds to turn the transmitter on or off.*

### ② Status LED

Indicates the transmitter's status. The color indicators for Mute and Active can be customized from the Preferences tab. See the Status LED table for the default LED behavior for MXW neXt transmitters.

*Note: MXW8X gooseneck has an additional LED light ring, which can be configured independently to indicate additional status information.*

### ③ Display

Shows receiver and transmitter settings and information, including battery and RF status, microphone and base unit name, and menu options.

### ④ USB-C Connector

Connects to the docking station or USB charger. Can be used with the USB-C-to-3.5mm dongle to provide a headphone output.

### ⑤ Microphone

MXW1X hybrid bodypack has a TQG connector for an external lavalier or headset microphone, as well as an internal microphone.

MXW2X handheld transmitter is compatible with SM58, Beta 58, SM86, and VP68 cartridges.

MXW6X features an internal microphone, available with cardioid or omnidirectional microphone cartridges.

MXW8X gooseneck base is compatible with 5", 10", and 15" Microflex gooseneck microphones.

### ⑥ + / - Buttons (MXW1X)

Adjusts the MXW1X back-channel audio volume when a headphone is connected. Also selects between internal and external microphone.

### ⑦ Power On/Off (MXW6X, MXW8X)

Press and hold the dedicated power button for 3 seconds to turn the transmitter on or off.

*Note: For MXW1X and MXW2X, press and hold the Mute/Active button for 3 seconds to turn the transmitter on or off.*

## Status LEDs\*

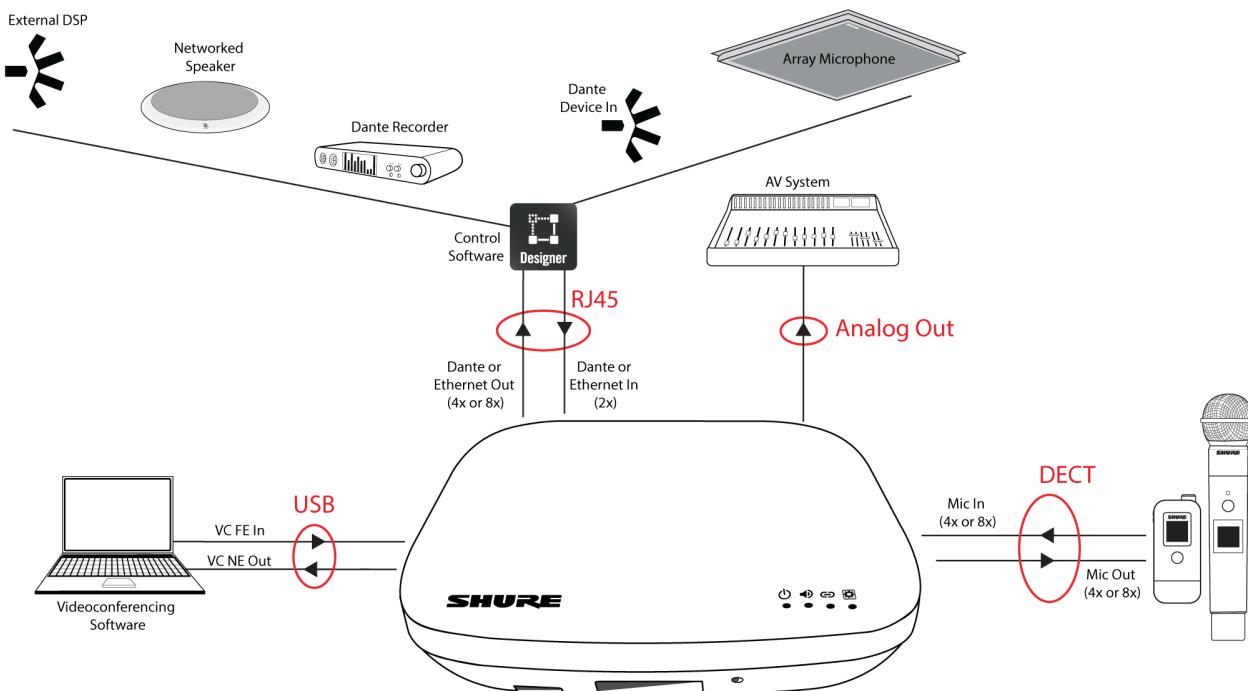
Status	LED	Description
Active	Green	Ready to pass audio to network.
Mute	Red	Audio is muted.
Identify	Flashing Yellow	The Identify button has been pressed from the control software.

Status	LED	Description
<b>Initialization/ RF channel acquisition</b>	Alternating Red and Green	The transmitter is initializing and acquiring the RF connection to the linked access point. Standard density mode has a slow alternating rate. High density mode has a fast alternating rate.
<b>Out of RF Coverage Range</b>	Red Pulsing (short on/off)	The transmitter is out of the RF coverage range to the linked access point.
<b>Charging</b>	Off	The transmitter is charging.
<b>Off</b>	Off	No connection to the network. The transmitter must be turned on using the power button on the mic.

\* Default behavior. Customize LED behavior from **Settings > Lights**.

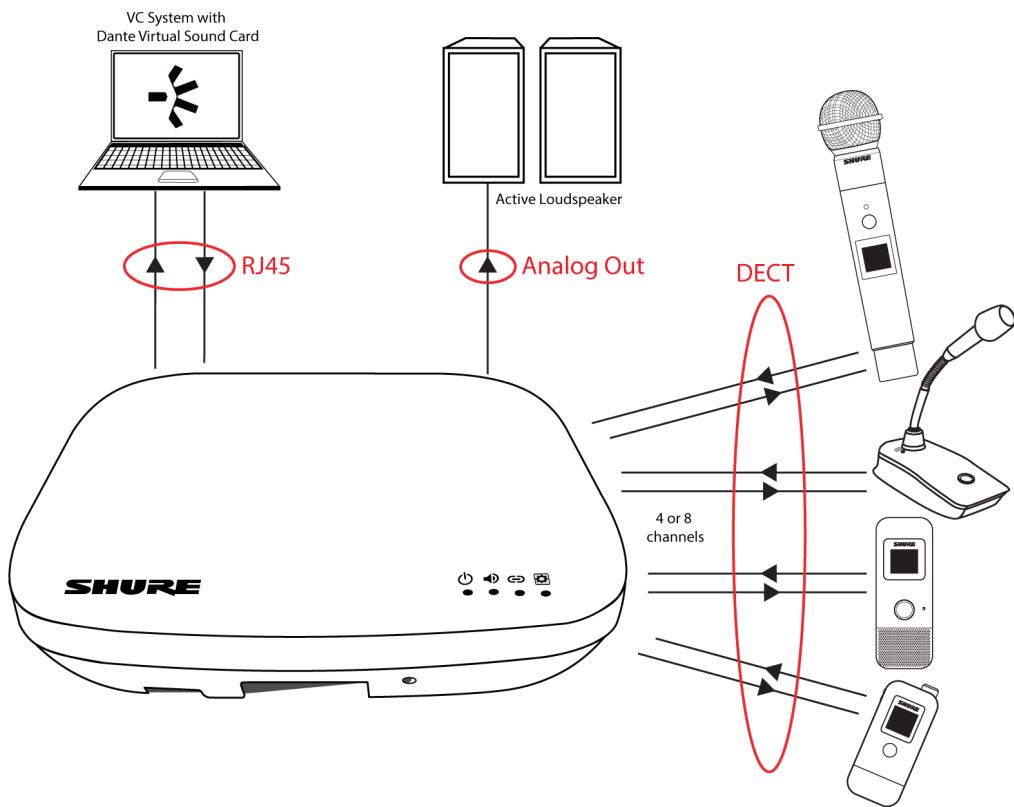
## APX4/8 Connection Overview

MXW neXt systems can be operated with or without a computer, and features analog, USB and Dante connections as well as wireless communication with paired MXW neXt microphones.



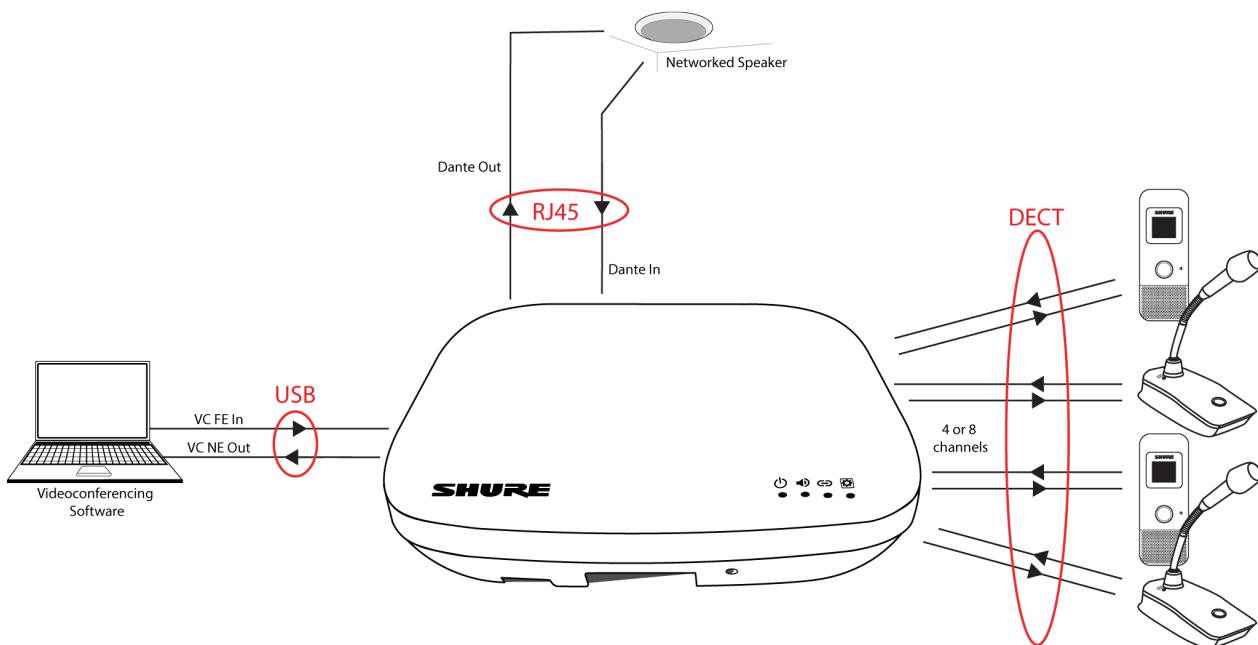
## Sound Reinforcement

Ensure remote and in-person presenters can be heard clearly anywhere in the room.



## Video Conferencing

Enhance your conference rooms with high-quality audio for all participants.



System Preset: Conference

# Audio Output Configuration for APX Presets

Use the presets in the control software to quickly configure your audio.

Operation mode:  
**Presentation**

	Mic Input 1 (Direct)	Mic Input 2 (Direct)	Analog Input (Direct)	Automix	Dante Input 1	Dante Input 2	USB Input	Analog Output 1	Analog Output 2	Dante Output 1	Dante Output 2	Dante Output 3	USB Output	Backchannel	AEC Reference
Mic Input 1 (Direct)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mic Input 2 (Direct)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Analog Input (Direct)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Automix	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Dante Input 1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>											
Dante Input 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
USB Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				

Operation mode:  
**Conference**

	Mic Input 1 (Direct)	Mic Input 2 (Direct)	Analog Input (Direct)	Automix	Dante Input 1	Dante Input 2	USB Input	Analog Output 1	Analog Output 2	Dante Output 1	Dante Output 2	Dante Output 3	USB Output	Backchannel	AEC Reference
Mic Input 1 (Direct)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mic Input 2 (Direct)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Analog Input (Direct)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Automix	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Dante Input 1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>											
Dante Input 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
USB Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				

Operation mode:  
**Direct**

	Mic Input 1 (Direct)	Mic Input 2 (Direct)	Analog Input (Direct)	Automix	Dante Input 1	Dante Input 2	USB Input	Analog Output 1	Analog Output 2	Dante Output 1	Dante Output 2	Dante Output 3	USB Output	Backchannel	AEC Reference
Mic Input 1 (Direct)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mic Input 2 (Direct)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Analog Input (Direct)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Automix	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dante Input 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dante Input 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
USB Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Audio Out	Presentation Mode	Conference Mode	Direct Mode
<b>Analog 1</b>	Full audio mix Sound reinforcement for local mics Hear participants of a video conference		Direct audio output from Mic 1
<b>Analog 2</b>	Videoconference far end only Hear participants of a video conference		Direct audio output from Mic 2
<b>Dante 1</b>	Full audio mix Sound reinforcement for local mics Hear participants of a video conference		Direct audio output from Mic 1
<b>Dante 2</b>	Videoconference far end only Hear participants of a video conference		Direct audio output from Mic 2
<b>Dante 3</b>	Local mix only Send local audio from automixer to far-end participants		Direct audio output from Analog In
<b>USB</b>	Local mix only Send local audio from automixer to far-end participants		Matrix mix output from Mic 1, Mic 2, and Analog In
<b>Backchannel</b>	Enhanced listening to all audio (for accessibility, etc.) Available on each microphone using USB-C audio		
<b>AEC Reference</b>	Far end only Reference for echo cancelling algorithm	Far end + Analog in Reference for echo cancelling algorithm Analog reference audio (e.g. speakers used for far-end audio)	N/A

## MXW neXt System Control Software

The MXW neXt control software allows comprehensive system control and monitoring from a computer. It is hosted from an embedded server in the access point, and is accessible when properly networked to a computer. All hardware functions can be adjusted using this software interface.

To access the control software, connect the device to your computer via Ethernet, or wirelessly using the same subnet as your computer, and enter the device's IP address in a Web browser.

To discover your device's IP address, install and open the Shure Update Utility from [shure.com](http://shure.com), and locate your device in the device list. Double-clicking the device's IP address opens the control software in your default browser.

## Firmware Updates

Firmware is embedded software in each component that controls functionality. Periodically, new versions of firmware are developed to incorporate additional features and enhancements. To take advantage of design improvements, new versions of the firmware can be uploaded and installed using the Shure Update Utility. Download the software from [www.shure.com/suu](http://www.shure.com/suu).

Perform the following steps to update the firmware:

**CAUTION!** Ensure the device has a stable network connection during the update. Do not turn off the device until the update is complete.

1. Connect the device and computer to the same network, set to the same subnet. (To update MXW neXt transmitters, place them in a docking station that is connected to the same network.)
2. Open the Shure Update Utility application.
3. Click Check For Updates... button to view new firmware versions available for download.
4. Select the desired firmware and press Download to download it to the Firmware Library.
5. From the Update Devices tab, select the new firmware and press Send Updates... to begin the firmware update, which overwrites the existing firmware on the device.

## Firmware Versions and Compatibility

The firmware of all Shure devices has the form of MAJOR.MINOR.PATCH.BUILD (e.g., 1.2.14.0). To ensure interoperability, all components from the same model family (including transmitters) should be updated to the same MAJOR and MINOR firmware version numbers (e.g., 1.2.x.x).

## Specifications

### System

#### RF Carrier Frequency Range

Band	Frequency Range	Region(s)
Z10	1920 MHz – 1930 MHz	USA, Canada, Mexico
Z11	1880 MHz – 1900 MHz	Europe, South Africa, Asia, Australia, Middle East
Z12	1884 MHz – 1906 MHz	Japan
Z14	1910 MHz – 1920 MHz	Brazil, Latin America, South America
Z15	1880 MHz – 1895 MHz	Taiwan
Z16	1880 MHz – 1890 MHz	Philippines

#### Operating Temperature Range

5°C (41°F) - 40°C (104°F)

Storage Temperature Range  
-20°C (-4°F) to 60°C (140°F)

## MXWAPX4, MXWAPX8

RF (DECT) Output Power  
20 dBm

PoE Input Power  
37 - 57VDC, 12.95W

Antenna Type  
Internal

Cable Requirements  
Cat 5e or higher, shielded, 100 m maximum between network devices

## Microwaves

MXW1X, MXW2X, MXW6X, MXW8X

RF (DECT) Output Power  
20 dBm

Antenna Type  
Internal

Microphone Input Power  
5V / 1A

### SBC10-USB15WSUSTWJ Power Supply\*

<b>Input</b>	100-240 V AC, 50-60 Hz, 0.6 A
<b>Output</b>	5 V DC, 3.0 A, 15.0 W (max)

\* USA, Canada, Taiwan, Japan

### SBC10-USB Power Supply\*\*

<b>Input</b>	100-240 V AC, 50-60 Hz, 0.2 A
<b>Output</b>	5 V DC, 1.0 A, 5.0 W (max)

\*\* All other countries

### Rechargeable Li-Ion Battery Type

MXW1X, MXW6X	SB906
MXW2X, MXW8X	SB908

# Important Product Regulatory 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>.

## UKCA Notice

Hereby, Shure Incorporated declares that this product with UKCA Marking has been determined to be in compliance with UK-CA 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>.

## UK Cybersecurity

### UK SI 2023 NO. 1007 STATEMENT OF COMPLIANCE

**Product Type:** Relevant connectable products as defined by The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023.

**Manufacturer Statement:** We, Shure Incorporated, certify and declare as manufacturer under our sole responsibility, that the above mentioned product(s) conform(s) to Schedule 2 of the essential requirements of the listed applicable United Kingdom Statutory Instruments (including their amendments) and the associated norms.

**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](http://www.Shure.com).

**Technical documentation is kept at:**

Shure Incorporated, Corporate Global Compliance Engineering Division

**UK Importer/Representative:**

Shure UK Limited  
Unit 2, The 10 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  
01 February 2024 Niles, Illinois  
Senior Director, Global Compliance

## FCC Notice

This equipment has been tested and found to comply with the limits for a Class B 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 residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the antenna of the radio/television receiver.
- Increase the separation between this equipment and the radio/television receiver.
- Plug the equipment into a different outlet so that the equipment and the radio/television receiver are on different power mains branch circuits.
- Consult a representative of Shure or an experienced radio/television technician for additional suggestions.

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](http://shure.com/contact)

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

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

## Industry Canada (IC) Notices

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

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

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## Canada Warning for Wireless

This device operates on a no-protection, no-interference basis. Should the user seek to obtain protection from other radio services operating in the same TV bands, a radio licence is required. For further details, consult Innovation, Science and Economic Development Canada's document Client Procedures Circular CPC-2-1-28, Voluntary Licensing of Licence-Exempt Low-Power Radio Apparatus in the TV Bands.

Ce dispositif fonctionne selon un régime de non\_brouillage et de non\_protection. Si l'utilisateur devait chercher à obtenir une certaine protection contre d'autres services radio fonctionnant dans les mêmes bandes de télévision, une licence radio serait requise. Pour en savoir plus, veuillez consulter la Circulaire des procédures concernant les clients CPC.2.1.28, Délivrance de licences sur une base volontaire pour les appareils radio de faible puissance exempts de licence et exploités dans les bandes de télévision d'Innovation, Sciences et Développement économique Canada.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The antenna(s) must be installed such that a minimum separation distance of 20 cm is maintained between the radiator (antenna) and all persons at all times.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions spécifiques pour satisfaire les normes. Cet émetteur ne doit pas être co-implanté ou fonctionner en conjonction avec toute autre antenne ou transmetteur. La ou les antennes doivent être installées de telle façon qu'une distance de séparation minimum de 20 cm soit maintenue entre le radiateur (antenne) et toute personne à tout moment.

## ANATEL Notice

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados. Para maiores informações, consulte o site da ANATEL – <http://www.anatel.gov.br>.

## IFETEL Notice

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

## NCC Notice

### 低功率射頻器材技術規範

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

減少電磁波影響，請妥適使用。

## MIC Notice

### 運用に際しての注意

この機器の使用周波数帯では、電子レンジ等の産業・科学・医療用機器のほか工場の製造ライン等で使用されている移動体識別用の構内無線局（免許を要する無線局）及び特定小電力無線局（免許を要しない無線局）並びにアマチュア無線局（免許を要する無線局）が運用されています。

1. この機器を使用する前に、近くで移動体識別用の構内無線局及び特定小電力無線局並びにアマチュア無線局が運用されていることを確認して下さい。
2. 万一、この機器から移動体識別用の構内無線局に対して有害な電波干渉の事例が発生した場合には、速やかに使用周波数を変更するか又は電波の発射を停止した上、下記連絡先にご連絡頂き、混信回避のための処置等（例えば、パーティションの設置など）についてご相談して下さい。
3. その他、この機器から移動体識別用の特定小電力無線局あるいはアマチュア無線局に対して有害な電波干渉の事例が発生した場合など何かお困りのことが起きたときは、保証書に記載の販売代理店または購入店へお問い合わせください。代理店および販売店情報は Shure 日本語ウェブサイト <http://www.shure.co.jp> でもご覧いただけます。

### 現品表示記号について

2.4 FH1

現品表示記号は、以下のことを表しています。この無線機器は 2.4GHz 帯の電波を使用し、変調方式は「FH-SS」方式、想定干渉距離は 10m です。2,400MHz～2,483.5MHz の全帯域を使用し、移動体識別装置の帯域を回避することはできません。

# 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.

## Certifications

### 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.

<b>RMN: MXW1X</b>	<b>Product Numbers:</b> MXW1X/O Z10, MXW1X/O Z11, MXW1X/O Z12, MXW1X/O Z14, MXW1X/O Z15
<b>RMN: MXW2X</b>	<b>Product Numbers:</b> MXW2X Z10, MXW2X Z11, MXW2X Z12, MXW2X Z14, MXW2X Z15
<b>RMN: MXW6X</b>	<b>Product Numbers:</b> MXW6X/C Z10, MXW6X/C Z11, MXW6X/C Z12, MXW6X/C Z14, MXW6X/C Z15, MXW6X/O Z10, MXW6X/O Z11, MXW6X/O Z12, MXW6X/O Z14, MXW6X/O Z15, MXW6XW/C Z10, MXW6XW/C Z11, MXW6XW/C Z12, MXW6XW/C Z14, MXW6XW/C Z15, MXW6XW/O Z10, MXW6XW/O Z11, MXW6XW/O Z12, MXW6XW/O Z14, MXW6XW/O Z15
<b>RMN: MXW8X</b>	<b>Product Numbers:</b> MXW8X Z10, MXW8X Z11, MXW8X Z12, MXW8X Z14, MXW8X Z15, MXW8XW Z10, MXW8XW Z11, MXW8XW Z12, MXW8XW Z14, MXW8XW Z15
<b>RMN: MXWAPXD2</b>	<b>Product Numbers:</b> MXWAPXD2 Z10, MXWAPXD2 Z11, MXWAPXD2 Z12, MXWAPXD2 Z14, MXWAPXD2 Z15
<b>RMN: MXWAPX</b>	<b>Product Numbers:</b> MXWAPX4 Z10, MXWAPX4 Z11, MXWAPX4 Z12, MXWAPX4 Z14, MXWAPX4 Z15, MXWAPX8 Z10, MXWAPX8 Z11, MXWAPX8 Z12, MXWAPX8 Z14, MXWAPX8 Z15

