Microflex® Complete Wireless

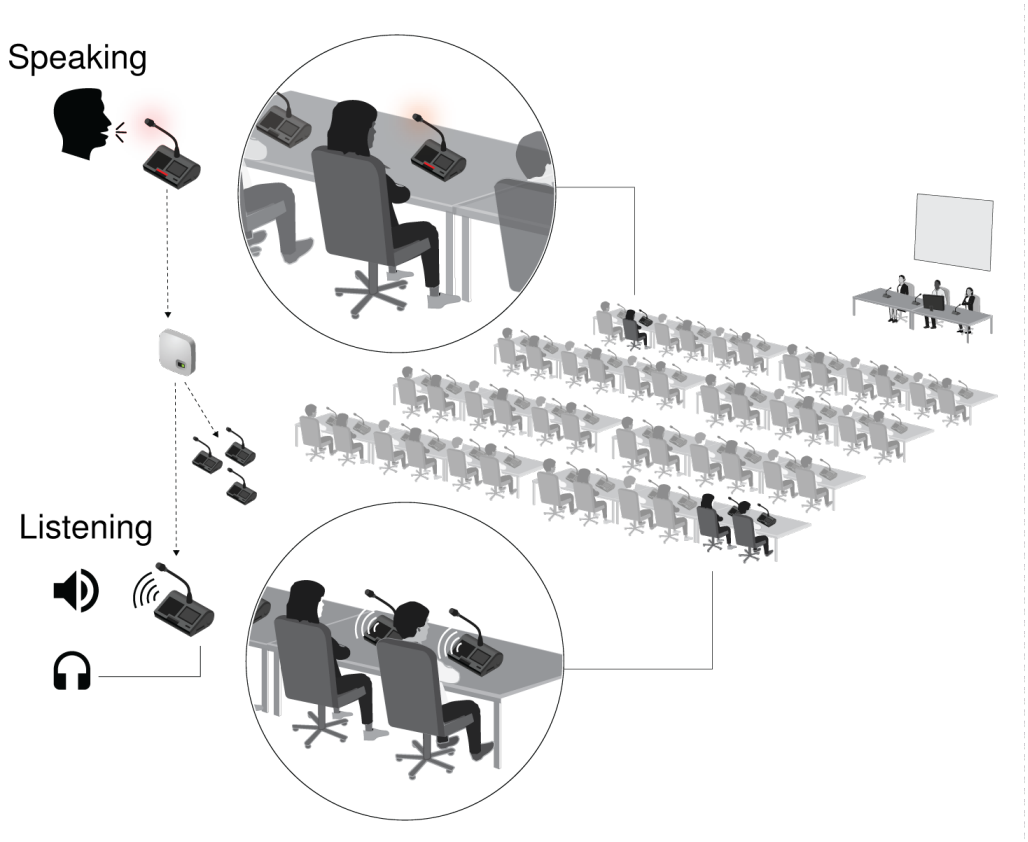
More Information Available Online

A comprehensive online user guide is available at pubs.shure.com (http://pubs.shure.com).

The Floor Mix

Whenever a microphone is turned on, the audio is routed to the Floor mix by default. The Floor mix combines all active speakers and sends that signal to the other participant units for listening.

Listen to the floor mix on the unit loudspeaker or the headphone channel.



- **Loudspeakers:** The floor mix is **always** the source for the loudspeakers
- **Headphones:** The floor mix is also available on a headphone channel (Ch. 0)

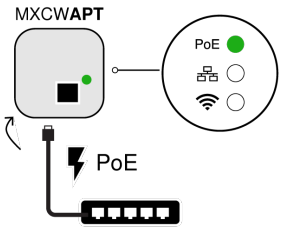
Monitoring Active Microphones

Use the MXCW system web application to monitor and adjust the microphone slots for audio contributing to the floor mix. Go to `AUDIO > Active microphones` .

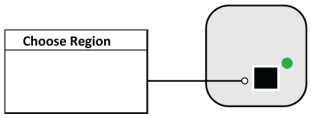
Getting Started

System access point (MXCWAPT)

1. Connect the access point to a Power over Ethernet (PoE) source to turn on the device.

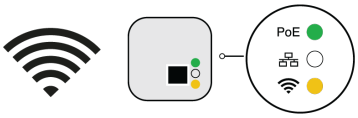


2. If prompted, select the operating region on the menu for RF coordination (some model variations).



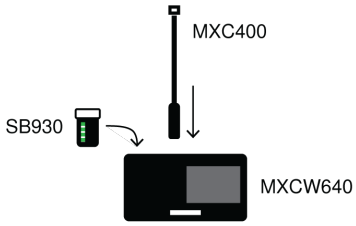
3. Wait while the access point scans the area for the best available channel.

4. Once the channel is selected, the default wireless network (00) is ready for the MXCW microphones.

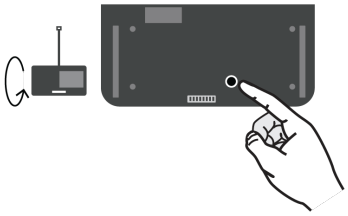


Wireless microphone devices (MXCW640) setup

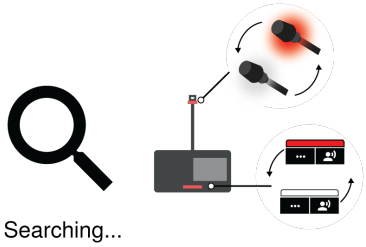
1. Insert the Shure SB930 rechargeable battery and connect the MXC400 series microphone.



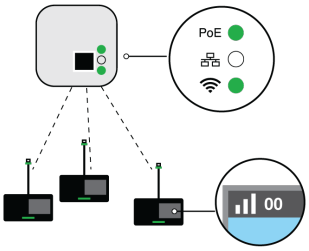
2. Press and hold the power button on the bottom of the device until the screen powers on.



3. Wait while the microphone device searches for the default access point network (00).

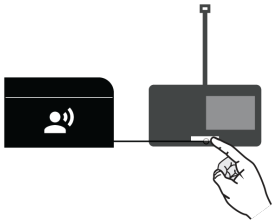


4. The devices are ready when the LEDs briefly flash green and the touchscreen displays the home-screen.

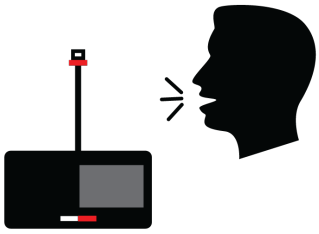


Perform a Soundcheck

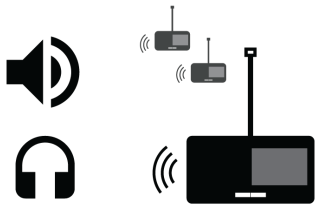
1. Press the
2. speak button on one of the devices to activate the microphone.



3. Speak into the microphone to check the audio.



4. Listen to the sound check on the loudspeakers or headphone output.



5. For more information, visit pubs.shure.com (http://pubs.shure.com) for the full user guide.

Device Installation and Positioning

Visit to the online user guide for detailed templates, best practices, and instructions to install the device in a variety of ways:

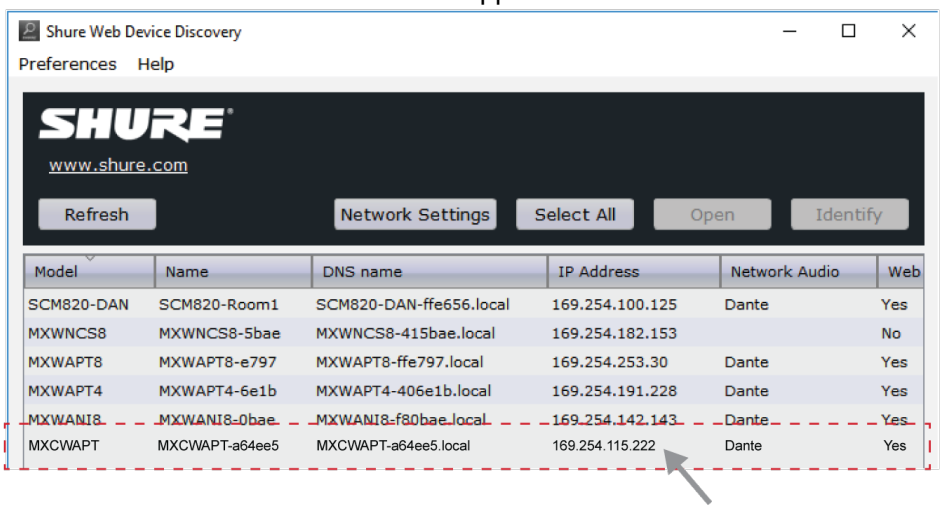
- Junction box
- Walls
- Ceiling tile
- Microphone stand

Open the Web Application

The web application provides system setup, live device monitoring, and meeting controls from a computer or tablet.

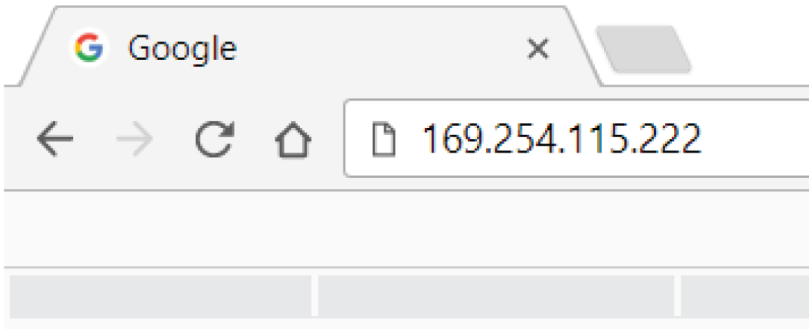
1. Connect a computer or tablet to the access point network and subnet.
2. Find the access point IP address:
    - **On the hardware:** On the access point menu, scroll down to the IP address screen.

- **From the computer:** Use the Shure Device Discovery app to view and access devices on the network. Download the app for free from shure.com.

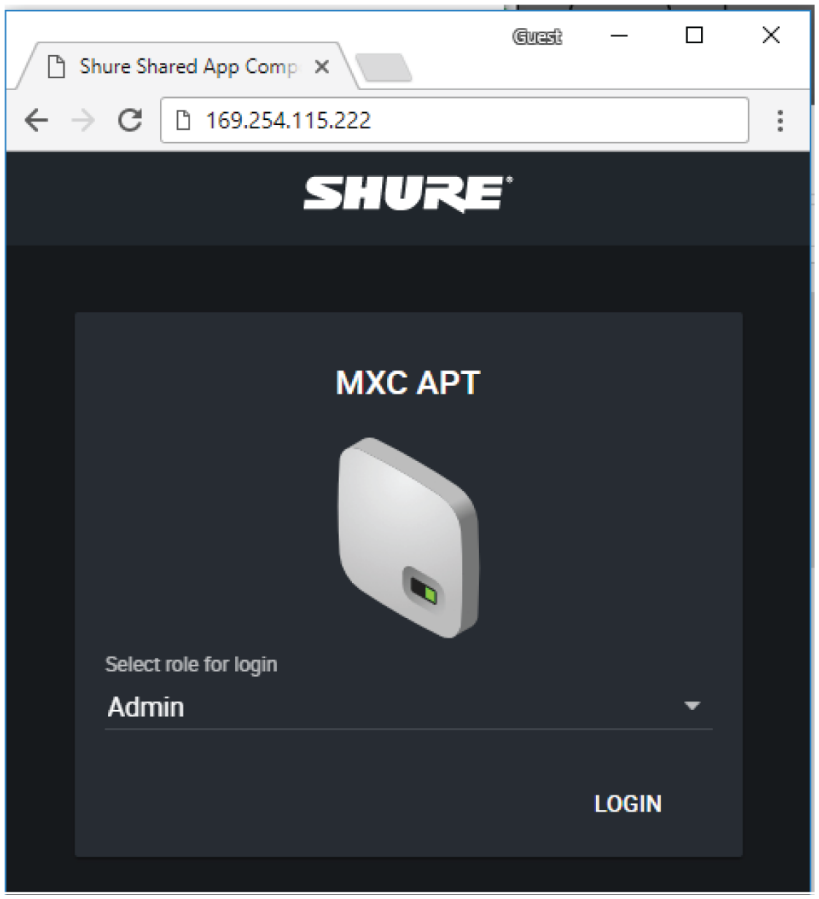


Model	Name	DNS name	IP Address	Network Audio	Web
SCM820-DAN	SCM820-Room1	SCM820-DAN-ffe656.local	169.254.100.125	Dante	Yes
MXWNCS8	MXWNCS8-5bae	MXWNCS8-415bae.local	169.254.182.153		No
MXWAPT8	MXWAPT8-e797	MXWAPT8-ffe797.local	169.254.253.30	Dante	Yes
MXWAPT4	MXWAPT4-6e1b	MXWAPT4-406e1b.local	169.254.191.228	Dante	Yes
MXWANI8	MXWANI8-0bae	MXWANI8-f80bae.local	169.254.142.143	Dante	Yes
MXCWAPT	MXCWAPT-a64ee5	MXCWAPT-a64ee5.local	169.254.115.222	Dante	Yes

3. Open the device in a browser.



4. Sign into the application as the admin.



Default System Settings

MXCW is designed for plug-and-play operation with default settings.

Default system settings:

Maximum System Size	125 wireless microphone devices
Wireless Network Name (SSID)	00

Default meeting settings:

Meeting Mode	• Automatic (push to speak) • No queue when the list is full
Maximum Total Speakers	8
Maximum Delegate Speakers	8

Microflex Complete Wireless Specifications

Important Product Information

Safety Information

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.

	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.

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.

SAFETY PRECAUTIONS

The possible results of incorrect use are marked by one of the two symbols—"WARNING" and "CAUTION"—depending on the imminence of the danger and the severity of the damage.

	WARNING: Ignoring these warnings may cause severe injury or death as a result of incorrect operation.
	CAUTION: Ignoring these cautions may cause moderate injury or property damage as a result of incorrect operation.

WARNING

LISTENING TO AUDIO AT EXCESSIVE VOLUMES CAN CAUSE PERMANENT HEARING DAMAGE. USE AS LOW A VOLUME AS POSSIBLE. Over exposure to excessive sound levels can damage your ears resulting in permanent noise-induced hearing loss (NIHL). Please use the following guidelines established by the Occupational Safety Health Administration (OSHA) on maximum time exposure to sound pressure levels before hearing damage occurs.

90 dB SPL at 8 hours	**95 dB SPL** at 4 hours	**100 dB SPL** at 2 hours	**105 dB SPL** at 1 hour
110 dB SPL at ½ hour	**115 dB SPL** at 15 minutes	**120 dB SPL** Avoid or damage may occur	

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Note: Use this product only with an agency approved power supply which meets local regulatory requirements (e.g., UL, CSA, VDE, CCC, INMETRO).

WARNING

- Battery packs may explode or release toxic materials. Risk of fire or burns. Do not open, crush, modify, disassemble, heat above 140°F (60°C), or incinerate.
- Follow instructions from manufacturer
- Only use Shure charger to recharge Shure rechargeable batteries
- WARNING: Danger of explosion if battery incorrectly replaced. Replace only with same or equivalent type.
- Never put batteries in mouth. If swallowed, contact your physician or local poison control center
- Do not short circuit; may cause burns or catch fire
- Do not charge or use battery packs other than Shure rechargeable batteries
- Dispose of battery packs properly. Check with local vendor for proper disposal of used battery packs.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like

Warning: Before charging, make sure the product is at room temperature, between 0 to 45°C (32 to 113°F).

1. 經審驗合格之射頻電信終端設備，非經許可，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。
2. 射頻電信終端設備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。所謂合法通信，係指依電信法規定作業之無線電信。
3. 輸入、製造射頻電信終端設備之公司、商號或其使用者違反本辦法規定，擅自使用或變更無線電頻率、電功率者，除依電信法規定處罰外，國家通訊傳播委員會並得撤銷其審驗合格證明。

4. 減少電磁波影響，請妥適使用

Important Product Information

The equipment is intended to be used in professional audio applications.

Changes or modifications not expressly approved by Shure Incorporated could void your authority to operate this equipment.

Note: This device is not intended to be connected directly to a public internet network.

EMC conformance to Environment E2: Commercial and Light Industrial. Testing is based on the use of supplied and recommended cable types. The use of other than shielded (screened) cable types may degrade EMC performance.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment is for indoor use only.
Installation personnel: This product is designed for specific application and needs to be installed by qualified personnel with RF and related rule knowledge. The general user shall not attempt to install, or to change the settings.

Information to the user

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 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 to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.
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.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation of this device is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie 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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Antenna Information

Type = Custom, soldered to PCB

Gain = +4.38dBi at 2.4 GHz

Gain = +6dBi at 5 GHz

MXCWAPT WLAN Specifications

802.11g

- 2.4 GHz
- OFDM
- RF Output Power 18.2 dBm (EIRP)

802.11a

- 5.15 - 5.35 GHz, 5.47 - 5725 GHz
- OFDM
- RF Output Power 21.6 dBm (EIRP)

MXCW640 WLAN Specifications:

802.11g

- 2.4 GHz
- OFDM
- RF Output Power 16.2 dBm (EIRP)

802.11a

- 5.15 - 5.35 GHz, 5.47 - 5725 GHz
- OFDM
- RF Output Power 19.1 dBm (EIRP)

Certifications

Hereby, Shure Incorporated declares that the radio equipment is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: http://www.shure.com/europe/compliance (http://www.shure.com/europe/compliance)

Authorized European representative:

Shure Europe GmbH

Headquarters Europe, Middle East & Africa

Department: EMEA Approval

Jakob-Dieffenbacher-Str. 12

75031 Eppingen, Germany

Phone: +49-7262-92 49 0

Fax: +49-7262-92 49 11 4

Email: EMEAsupport@shure.de

Note: See the label located on the bottom side of the charger enclosure for the FCC marking, the CE marking, the RCM marking, and the electrical ratings.

Trademarks

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