



Model MX692 User Guide

SHURE MX692 WIRELESS BOUNDARY MICROPHONE TRANSMITTER



- Integrated functionality of Microflex cardioid cartridge with UC1 UHF wireless transmitter
- Frequency agile transmitter offers 191 user selectable channels for both UA and UB country codes
- User programmable touch-sensitive switch and status LED (4 operational modes)
- 9V battery-powered with 3-stage battery life LED indicator
- Thread mount cartridge connection for easy field replacement
- Internally mounted antenna
- Requires Shure UC4 receiver (sold separately)

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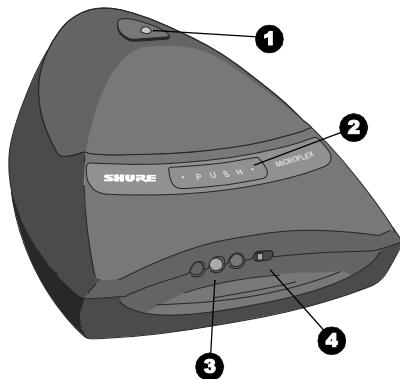
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INTRODUCTION

The Shure MX692 Microphone and Wireless Transmitter brings the flexibility and ease of wireless microphone use to the well-established Microflex line of installed-sound microphones. Modeled after the popular MX392 boundary microphone, the MX692 maintains the MX392's sleek profile, modern design, and ease of customization. In addition, the MX692 includes a built-in Shure UC wireless transmitter, allowing freedom of microphone placement and movement. Drilling wire exit holes in desks and tabletops is a thing of the past.

With the flexibility to move from room-to-room and system-to-system, the MX692 increases the effectiveness of most any boardroom, classroom, or other sound installation.

MICROPHONE COMPONENTS



1 Microphone Active LED

2 Touch-sensitive switch

Touch to mute or activate microphone, depending on logic settings (see page 16)

3 Battery Charge Indicator

Green: 2 to 8 Hours

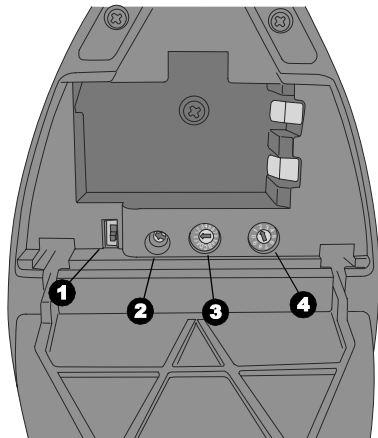
Amber: 45 minutes to 2 hours

Red: 45 minutes or less

4 Power switch

GAIN AND CHANNEL SETTINGS

To access gain and channel settings, open the battery compartment (see page 7).



1 Input Attenuation Control

This two position switch lets you select either 0 dB or -20 dB attenuation, depending on the volume of the speaker's voice. Use the 0dB position for normal voices. Use the -20dB position for loud voices.

2 Transmitter Output Gain Control

Changes the audio level to accommodate various input volumes. Use the supplied screwdriver (Xcelite R3322 or equivalent) to make adjustments.

3 Channel Setting Control

Rotating the Channel dial changes the Channel setting. Use the supplied screwdriver (Xcelite R3322 or equivalent) to make adjustments.

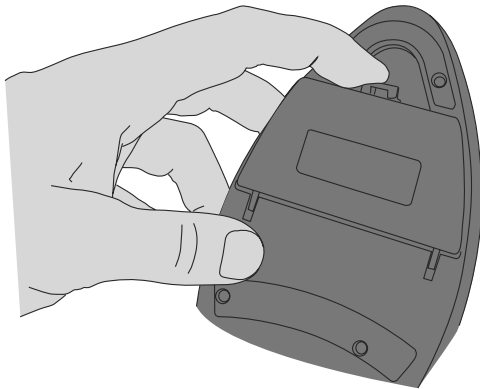
4 Group Setting Control

Rotating the Group dial changes the Group setting. Use the supplied screwdriver (Xcelite R3322 or equivalent) to make adjustments.

REPLACING THE BATTERY

To access the battery compartment, as well as the internal gain and channel settings, turn the microphone over. Unlatch and open the battery compartment door.

To remove the battery, simply lift up on the edge opposite the contact points.



ADJUSTING THE TRANSMITTER GAIN LEVEL

The transmitter audio gain level has been factory preset to the mid position. For optimal performance, adjust the audio gain control on the bottom of the transmitter so that the audio LED meter on the receiver regularly reaches amber and will momentarily flash red during the loudest sounds.

CHANGING THE TRANSMITTER GROUP/CHANNEL SETTINGS

1. Turn the transmitter off and open the battery compartment to expose the GROUP and CHANNEL switches.
2. Using the supplied screwdriver, rotate the GROUP switch until the desired setting is reached. Then rotate the CHANNEL switch until the desired setting is reached.

IMPORTANT: Use a single group and successive channels when setting frequencies. Transmitter GROUP and CHANNEL settings must match receiver GROUP and CHANNEL settings.

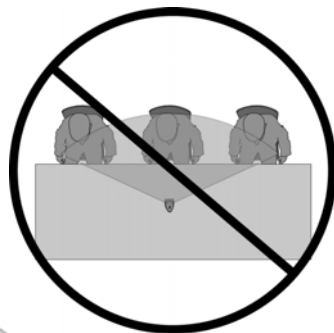
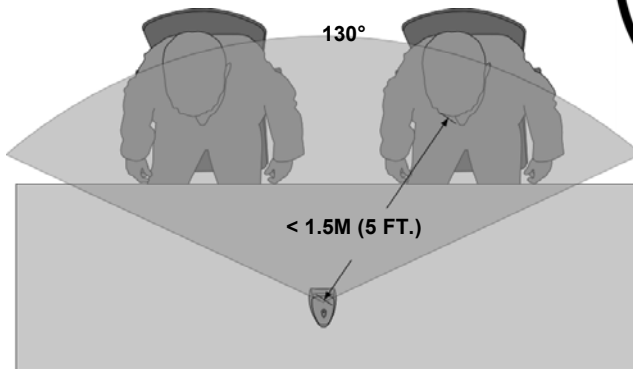
NOTES ON MICROPHONE USE

- This wireless microphone operates from 782–806 MHz (UA) and from 692–716 (UB) frequencies. These broadcast frequencies may be used exclusively in Canada, the U.S., Mexico, all Central and South American countries, and Australia.
- Do not use the MX692 microphone on metal surfaces.
- Do not place laptop computers, open or closed, in front of the microphone during use.
- When using multiple wireless systems, use a single group and successive channels. This will avoid interference between systems.
- The MX692 wireless microphone/transmitter uses the Shure UC4 wireless receiver.

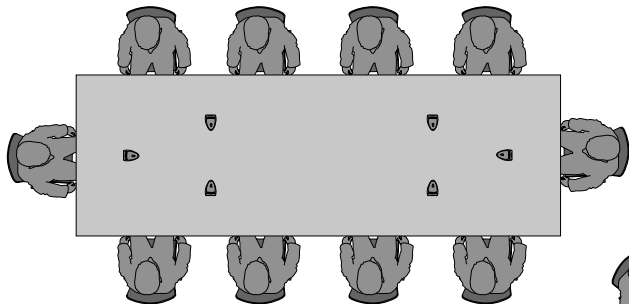
POSITIONING THE MICROPHONE

With the standard cardioid cartridge installed, the MX692 will pick up audio at conversational volume levels within 1.5 M (5 ft.) in a 130 degree radius.

As a general rule for tables with multiple seats, a single microphone should be used for every two people speaking.

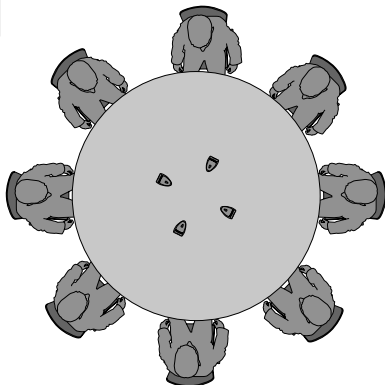


POSITIONING MULTIPLE MICROPHONES

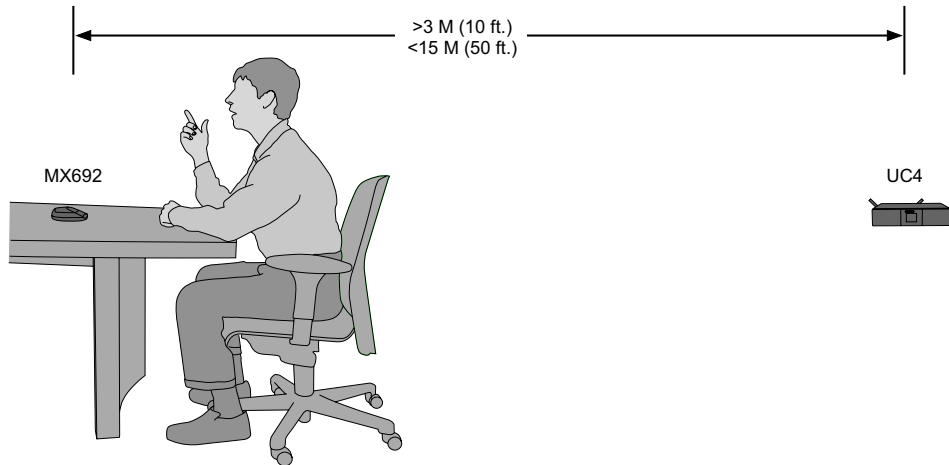


In any installation, good vocal amplification can be achieved by following the positioning rules on page 10.

For information on receiver setup and positioning, see your UC4 Wireless System user guide.



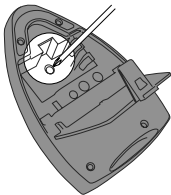
POSITIONING YOUR RECEIVER



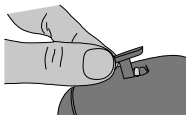
The receiver may be wall-mounted or used in conjunction with a remote antenna system, such as the Shure UA500. The distance between transmitter and antenna should never be greater than 15 meters (50 feet) or less than 3 meters (10 feet). See your UC4 user manual for additional information on receiver and system setup.

REMOVING THE GRILLE

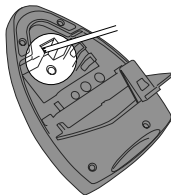
1. Open the battery compartment
2. Remove the battery
3. Loosen and remove the screw at the base of the battery compartment



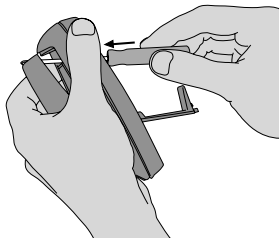
4. Remove the retainer



5. Insert the screwdriver into the opening above the battery compartment



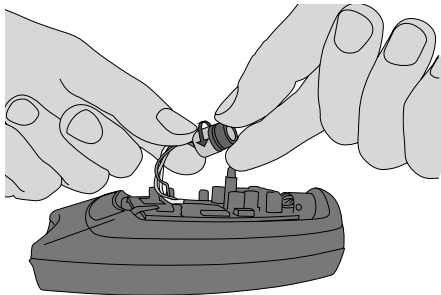
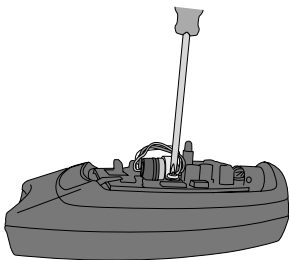
6. Press gently on the underside of the microphone grille with the tip of the screwdriver until the grille pops out



ADDITIONAL OR REPLACEMENT CARTRIDGES

Additional or replacement cartridges may be purchased for the MX692. For more information or to order cartridges, contact the Shure service department or an authorized Shure service center.

Omnidirectional Cartridge	R183
Supercardioid Cartridge	R184
Cardioid Cartridge	R185

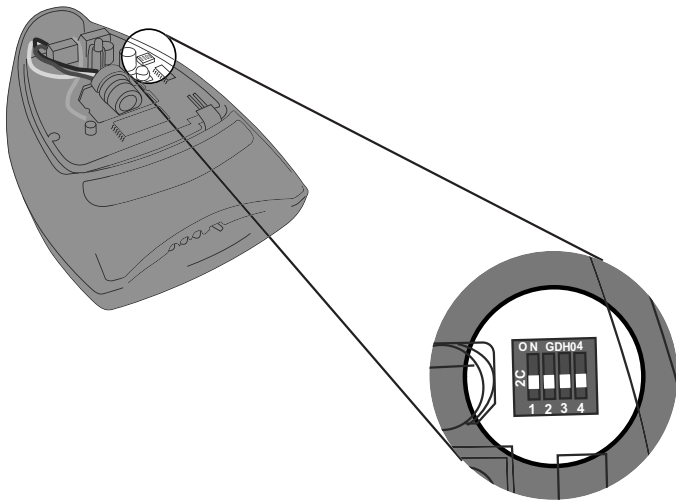


To replace the microphone cartridge:

1. Remove the grille (see page 13)
2. Loosen the screw and remove the cartridge clamp
3. Turn and remove the existing cartridge
4. Reverse procedure to install new cartridge

THE INTERNAL DIP SWITCHES

The behavior of the touch-sensitive switch on the microphone's front panel (see page 5) can be customized using the internal DIP switches. See page 16 for customization options.



CUSTOMIZING MICROPHONE BEHAVIOR

DESIRED SWITCH BEHAVIOR	DESIRED LED BEHAVIOR	DIP SWITCH SETTING
Push to mute, release to talk (as shipped)	LED on when microphone is active	
Push to talk release to mute	LED on when microphone is active	
Toggle: push on/push off	LED on when microphone is active	 

TROUBLESHOOTING

If your system is properly configured and you are having troubles, check the following:

- Make sure both the transmitter and the receiver are turned on
- Check the MX692 battery gauge, and replace the battery if necessary
- Make sure the transmitter and receiver frequency group/channel settings are identical
- Make sure there is an unobstructed line-of-sight between the transmitter and receiver
- If necessary, reposition the receiver, or decrease the distance between transmitter and receiver
- Remove local sources of RF interference, such as lighting equipment

For in-depth troubleshooting, see your UC Wireless System user guide.

SPECIFICATIONS

Open-circuit output level

-18.0 ± 4.0 dBV/Pa @ 1 kHz, free field

Frequency response

Refer to Sheet 4 for typical response and limits

Polar pattern

Cardioid

Current drain

62 ± 10 mA, typical (V_{ss} = 6.0 to 9.6 VDC)

Battery life

7 hours (Based on Duracell alkaline MN1604)

Dynamic range

100 dB minimum

Polarity

Positive pressure on the diaphragm produces a positive voltage on pin 2 of the XLR output of the UC4 receiver.

Transducer type

Electret condenser

Temperature Range

Operating: (20° to 120° F)

Storage: (-20° to 165° F)

Operating Frequency Range

692–806 MHz

RF Power Output

50 mW Max (conducted)

3 mW Typical (radiated)

Certifications

Type accepted under FCC Part 74 (FCC ID DD4MX692). Certified by IC in Canada under RSS-123 and RSS-102. (IC:216A-MX692.)

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.

Licensing Information

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

Licensing of Shure wireless microphone equipment is the user's responsibility, and licensability depends on the user's classification and application, and on the selected frequency. Shure strongly urges the user to contact the appropriate telecommunications authority concerning proper licensing, and before choosing and ordering frequencies