



***Lumens***<sup>®</sup>

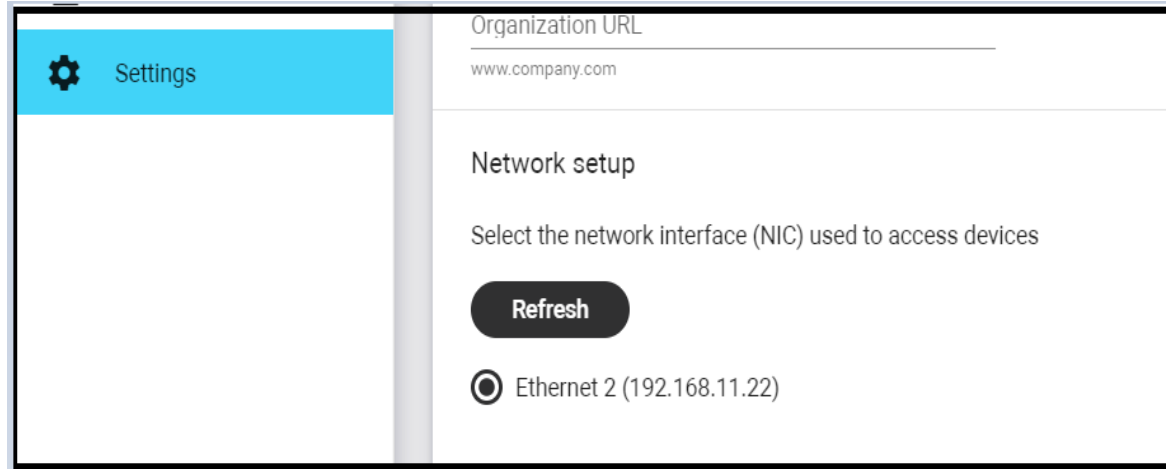
| Shure MXA710 &  
CamConnect Pro  
Settings Guide

# 1. Discover MXA710 in Shure Designer

1.1 Download Designer: [https://www.shure.com/en-US/products/software/designer\\_software](https://www.shure.com/en-US/products/software/designer_software)

1.2 Launch Designer and go to [Online Devices].

- *Note = if MXA710 does not appear in [Online devices], go to [Settings]; choose your NIC (Network interface card) and select [Refresh]*



# 1. Discover MXA710 in Designer

1.3 Go back to [Online Devices]. Select your MXA710 as below.

The screenshot shows the 'Designer' application interface. The left sidebar contains navigation options: 'lumens lumens', 'My projects 1', 'Online devices' (highlighted in blue), 'Event log', and 'Settings'. The main area is titled 'Online devices' and includes a search bar and two buttons: 'Add cross-subnet devices' and 'IP scope: None'. Below this is a table of online devices:

<input type="checkbox"/>	Device name ↑	Device model	IP address	Room	Firmware version
<input checked="" type="checkbox"/>	MXA710-4FT-608166	MXA710-4FT	192.168.11.18	<u>501</u>	1.5.16 ●

A red arrow points to the checkbox of the selected device, and a red box highlights the checkbox. A green text overlay reads 'MXA710\_discovered in Designer'. Below the table, the text 'Select/Check this for operation' is displayed.

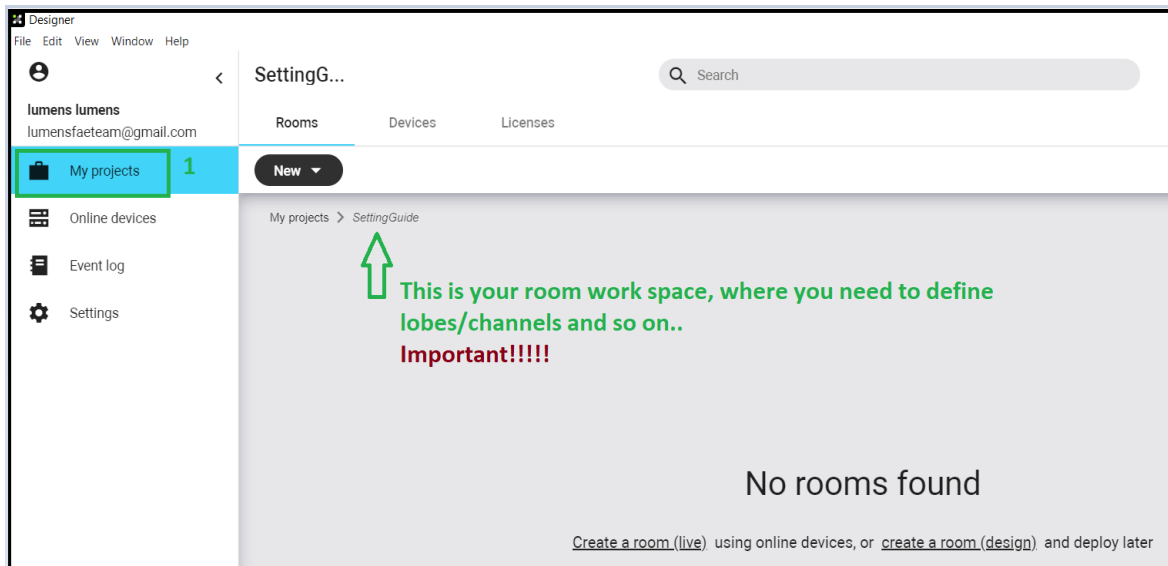
## Room Level Settings

# 2. Setting up MXA710 in your room

2.1 **MXA710 room orientation setting:** (Wall \_ vertically, Wall \_ Horizontally, Ceiling or table).

**Wall Horizontally is shown here**

2.2 In Designer go to [My Projects] and define a name; ex. Name= 501. Click [Create].



Designer  
File Edit View Window Help

lumens lumens  
lumensfaeteam@gmail.com

My projects 1

Online devices

Event log

Settings

SettingG...

Search

Rooms Devices Licenses

New

My projects > SettingGuide

↑ This is your room work space, where you need to define lobes/channels and so on.. Important!!!!

No rooms found

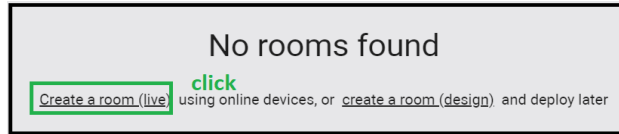
[Create a room \(live\)](#) using online devices, or [create a room \(design\)](#) and deploy later



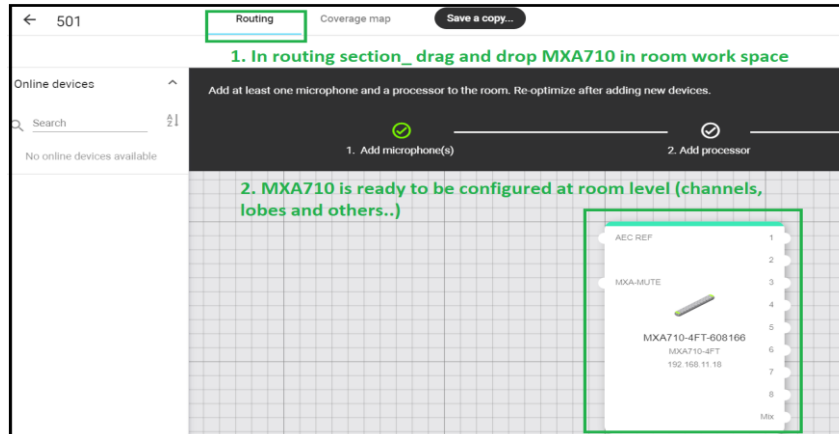
## Room Level Settings

# 2. Setting up MXA710 in your room

2.3 **Creating a Room.** As in 2.2, click on [Create a room (live)].



2.4 Drag and Drop your MXA710 into the room workspace. Make sure you have selected the MXA710 as shown in 1.3.



## Room Level Settings

## 2. Setting up MXA710 in your room

### 2.5 Set the room dimension in relation to position/orientation of MXA710.

- Go to [Coverage Map]. Define room (Length X Width X Height )

The screenshot displays the Lumens software interface for setting up MXA710 in a room. The interface is divided into several sections:

- Top Navigation:** Includes 'Routing' and 'Coverage map' tabs, a 'Save a copy...' button, and utility icons (bookmark, settings, help).
- Workflow:** A dark bar at the top contains three steps: '1. Add microphone(s)', '2. Add processor', and '3. Optimize'. A red arrow points to the 'Optimize' step.
- Grid:** A coordinate grid with X and Y axes ranging from -40 to 56. A room outline is drawn in blue, with dimensions '30 x 30 x 9 (ft)' displayed at the top.
- Properties Sidebar:** A sidebar on the right titled 'Properties' contains the following fields:
  - Workspace
  - Width (ft): 30
  - Length (ft): 30
  - Height (ft): 9
  - Grid
  - Starting point - X (ft): 0
  - Starting point - Y (ft): 0

Annotations on the screenshot include:

- A green box around the 'Coverage map' tab with the text '1. select [Coverage Map]'.
- Green text on the grid: '2. Set Width, length & height of your room in relation to MXA710.'
- A red box around the 'Properties' sidebar with the text 'Enter here'.

## Room Level Settings

## 2. Setting up MXA710 in your room

2.5 **Set MXA710 lobes/channels:** MXA710 supports up-to 8 4ft channels. Here we have set 5 channels.

Routing Coverage map Save a copy... 1. Go to coverage Map

Grid & guides Units: Feet Configure Add channel Select channel Flip horizontal Remove device

Layers

MXA710-4FT-608166

Online devices Search

Properties

General

Device name  
MXA710-4FT-608166

Dante device name  
MXA710-4-f680b7

Device model  
MXA710-4FT

Identify

Position

Device control

Control network

Audio network

2. Add channels

Add at least one microphone and a processor to the room. Re-optimize after adding new devices.

1. Add microphone(s) 2. Add processor 3. Optimize

MXA710 Placed at  $16/2 = 8$  ft

16 x 18 x 5 (ft)

Example:  
5 channels/lobes in room

Drag and drop\_place MXA710 in room with proper dimensions\_Very Important!!!

also make sure the Angles in MXA710 corresponds to seating arrangements of your room

## Room Level Settings

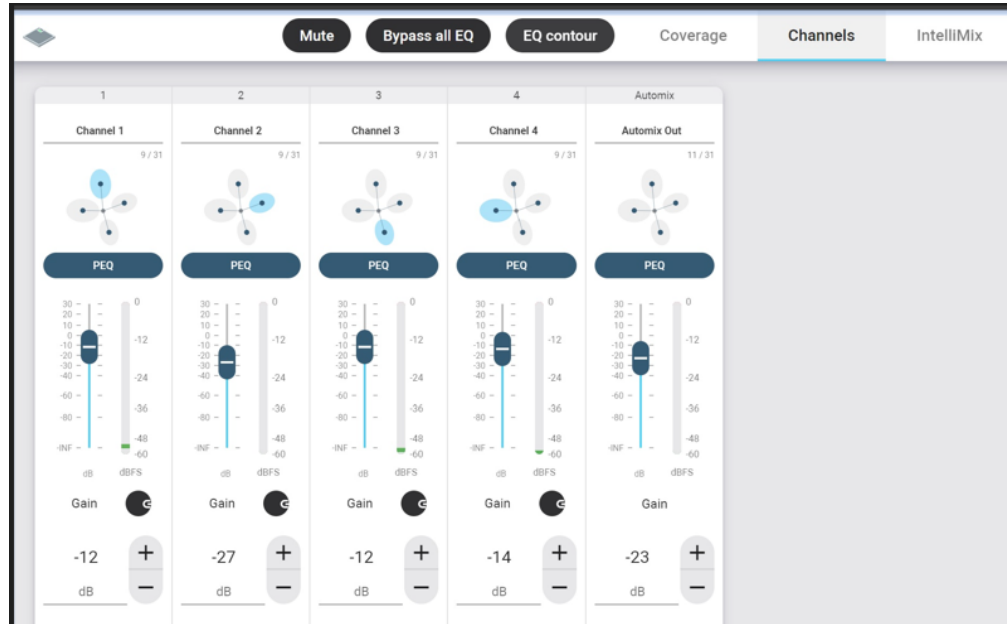
# 2. Setting up MXA710 in your room

- 2.5 **Fine tune channels/ lobes:** The solid line within each lobe/channel shows where pick-up is strongest.
- The Lobe's edge is -6db down from solid line. When fine tuning lobes, have someone at each seat position (as a voice source).

The screenshot shows the Lumens software interface for room level settings. The main window displays a coverage map for a room measuring 16 x 18 x 5 ft. The map shows five channels (lobes) with a solid line indicating the strongest pick-up area. A green arrow points to the edge of lobe 1, and a red arrow points to the control panel for channel 1. The control panel shows settings for Channel 1, including Lobe width (Narrow) and Gain (dB). The interface includes a 'Routing' section with 'Coverage map' selected, a 'Save a copy...' button, and a '1. Go to [Coverage Map]' instruction. The control panel also shows 'Channel name: Channel 1', 'Dante channel name: Channel 1', and 'Shape: Narrow'. The 'Control' section shows a gain slider from -60 to 0 dBFS, currently set at 0 dB. A 'Mute' button is visible at the bottom right of the control panel.



- Channel Mix (Automix)



Go to the Automix page. Use the faders to adjust a channel's gain before it reaches the auto-mixer and therefore affects the automixer's gating decision.

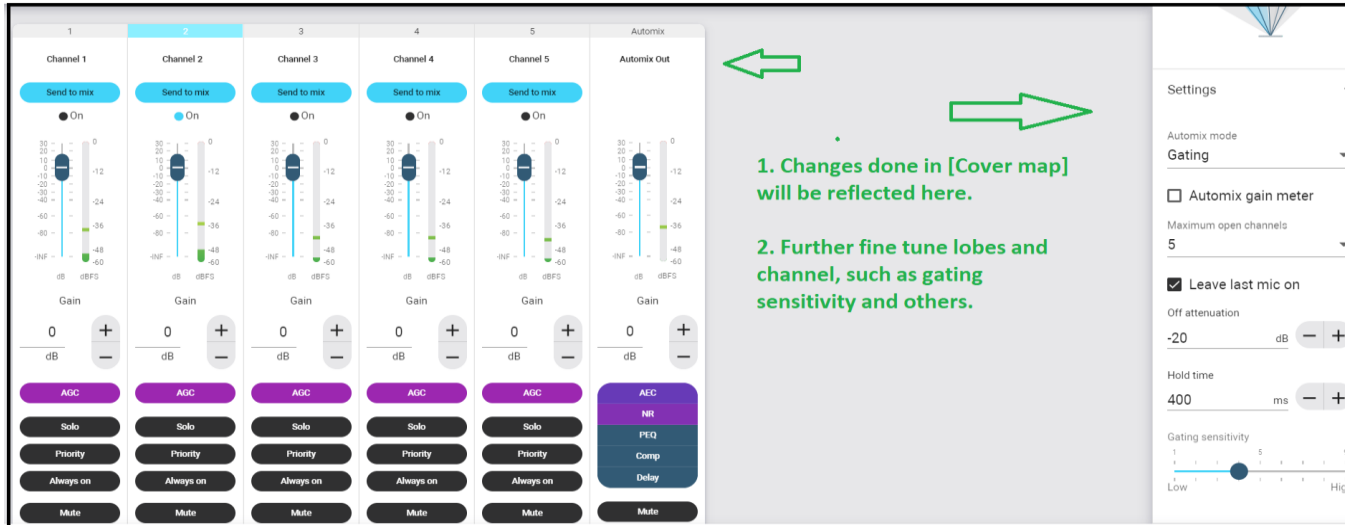
Boosting the gain here will make the lobe more sensitive to sound sources and more likely to gate on. Lowering gain makes the lobe less sensitive and less likely to gate on.

## Room Level Settings

# 2. Setting up MXA710 in your room

Disable “Always on” for all channels.

When no sound is detected in the room, CamConnect will return to its home position (or a defined camera preset if required).



The screenshot displays the MXA710 control interface. On the left, five channels (1-5) and an Automix Out section are visible. Each channel has a 'Send to mix' button, a gain meter, and a gain control knob. Below the gain controls are buttons for AGC, Solo, Priority, Always on, and Mute. The Automix Out section has buttons for AEC, NR, PEQ, Comp, and Delay. On the right, a settings menu is open, showing 'Settings' and 'Automix mode' options. The 'Gating' section is expanded, showing 'Automix gain meter' (unchecked), 'Maximum open channels' set to 5, 'Leave last mic on' (checked), 'Off attenuation' set to -20 dB, 'Hold time' set to 400 ms, and 'Gating sensitivity' set to a medium level. Two green arrows point from the text to the interface: one points to the channel settings area, and the other points to the 'Gating' settings.

1. Changes done in [Cover map] will be reflected here.
2. Further fine tune lobes and channel, such as gating sensitivity and others.

# • Leave Last Mic On

IntelliMix

Channel 7

Automix

Automix Out

Gain

Gain

AGC

AEC

Solo

NR

Priority

PEQ

Always on

Delay

Mute

Mute

Settings

Automix mode

Gating

Automix gain meter

Maximum open channels

8

Leave last mic on

Off attenuation (dB)

-15

Hold time (ms)

400

Gating sensitivity

1 5 9

## • Leave Last Mic On

Keeps the most recently used microphone channel active.

The purpose of this feature is to retain the natural room sound in the signal so that meeting participants on the far end know the audio signal has not been interrupted.


## • Off Attenuation

Sets the level of signal reduction when a channel is not active.

## • Hold Time

Sets the duration for which the channel remains open after the level drops below the gate threshold.

# Gating Sensitivity



Settings

Automix mode

Gating

Automix gain meter

Maximum open channels

8

Leave last mic on

Off attenuation (dB)

-15

Hold time (ms)

400

Gating sensitivity

1 5 9

Low High

## Gating Sensitivity

- Changes the threshold level at which the gate is opened
- Generally, this should be set between 2 and 5. Begin at **level 2** and adjust it to find the most appropriate result for your meeting space.
- The higher the level, the more sensitive the voice-trigger, and the greater the frequency of camera switching.
- The higher the level, the greater the chance of picking up non-vocal sounds.

# Voice activation

Mute Bypass all EQ EQ contour Coverage Channels **IntelliMix** ⚙️ 📖

Bypass IntelliMix Revert to defaults

The screenshot displays the IntelliMix software interface. At the top, there are navigation buttons: Mute, Bypass all EQ, EQ contour, Coverage, Channels, and IntelliMix (which is highlighted with a red box). Below these are two more buttons: Bypass IntelliMix and Revert to defaults. The main area shows seven channels (Channel 1 to Channel 7) and an Automix Out section. Each channel has a 'Send to mix' button and a status indicator (On/Off). Channel 3 is highlighted in blue, indicating it is the active channel. Below each channel, there are gain meters (dB) and AGC (Automatic Gain Control) buttons. The Automix Out section has a gain meter and a status indicator (On/Off). On the right side, there is a 'Properties' panel with a diagram of a microphone array (a red box highlights the diagram) and various settings including Automix mode, Gating, Automix gain meter, Maximum open channels (set to 8), Leave last mic on (checked), and Off attenuation (dB) (set to -15).

On the IntelliMix page, you can test whether the correct channel is activated when someone speaks.

The screenshot displays the Shure IntelliMix software interface. At the top, there are navigation icons and a URL bar showing '192.168.11.2/#/device\_mxa920/intellimix'. Below the URL bar are buttons for 'Mute', 'Bypass all EQ', 'EQ contour', 'Coverage', 'Channels', and 'IntelliMix'. The main interface shows eight channel strips. Each strip has a gain control (ranging from -60 to 0 dB) and a set of buttons: AGC, Solo, Priority, Always on, and Mute. Channel 1 has a gain of 10 dB and the 'Priority' button is highlighted in blue. The other channels have a gain of 0 dB. On the right side, there is a 'Properties' panel with a diagram of a microphone array and settings for 'Automix mode' and 'Gating'. The Shure logo is visible at the bottom right of the interface.

- If we enable “**Priority**” on channel 1. This means that when both channel 1 and channel 2 are talking, the signal of Channel 1 will be sent first
- For example, in a meeting. The main speaker is in the position of Channel 1. Channel 1 can be set with higher priority.

# CamConnect Pro Settings

# 3. Connecting CamConnect with MXA710

3.1 In the CamConnect interface, go to [Supported Device & Settings]. From the Device drop down list select Shure MXA710.

- A. Enter the MXA710's IP address.
- B. Slide the toggle [Connect].

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Device & Setting | System | Video Output Setting | Maintenance | About

Device Numbers: 1 | Testing mode:

Shure:MXA710

1. Select device = MXA710

2. Enter MXA710 IP as in Designer

Device: Shure:MXA710

Device IP: 192.168.11.18

Device Port: 2202

3. Connect

Connect:  Apply

Advanced

Array No.	Camera	Preset No.
1	Off	1
2	Off	2
3	Off	3
4	Off	4
5	Off	5
6	Off	6
7	Off	7
8	Off	8

Mic. Array No.: 1

Apply

If configured properly, camconnect will detect sound sources from lobes of MXA710



### 3. CamConnect & MXA710: Lobe/Channel Mapping

Go to the Camconnect web interface and the MXA710 intelliMix interface as shown. Press [Configure] in the room workspace to access IntelliMix.

The screenshot displays two web interfaces side-by-side. The left interface is the CamConnect web interface, showing a 'Connected: Lobe MXA710 and CamConnect Array Mapping' status. It includes a 'Device Numbers' dropdown, a 'Testing mode' toggle, and a 'Shure:MXA710' section. A red banner indicates 'CamConnect: Array #1 Activated'. Below this is a table for array configuration:

Array No.	Camera
1	Off
2	Off
3	Off
4	Off
5	Off
6	Off
7	Off
8	Off

The right interface is the MXA710 IntelliMix interface, showing five channels (Channel 1 to Channel 5) and an Automix Out section. Each channel has a 'Send to mix' button, a gain control (dB), and an 'AGC' button. A red box highlights the 'Lobe #1 Activated' diagram on the right side of the IntelliMix interface, which shows a fan-shaped lobe pattern.

# Thank You!



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