



Manufacturer: Shure
Model: MXA310
Device Type: Microphone

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GENERAL INFORMATION	
Q-SYS PLUGIN NAME	Shure MXA310
VERSION	1.0
AUTHORED BY	Control Concepts, Inc.
SUMMARY	Use this Q-SYS plugin to control Shure MXA310 in Q-SYS Designer. Settings include gain, mute behavior, status LEDs, and preset recall as well as monitor network information and other device settings.
GENERAL NOTES	This plugin is designed to support the following models: • MXA310
DEVICE USED FOR TESTING	Q-SYS Core 110f (v9.10.1)



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INITIAL SETUP

PROPERTIES

Meter Update Rate (ms): Set the rate for metering updates. Default is 500ms. Valid values are 100-10000. It is recommended to keep this value at 500ms or slower.

Debug Level: Indicates the specificity level of messages that appear in the debug window. The options include:

1-*Off*: No messages will be printed. [Default]

2-*Device Communication*: Only messages related to commands going to/coming from physical devices will be printed.

3-*Troubleshooting*: All internal messages will be printed.

Log Debug Messages: Indicates whether to also save any messages that are printed to the debug window to the internal Q-SYS processor's logs. [Default: False]

ESTABLISHING CONNECTION

This plugin has three ways of establishing a connection:

1. During design time, set up your programming to input the IP address and port information of your device. Connection will attempt automatically.
2. During run time, select the device to connect to from the auto-discovery dropdown box. The plugin can only discover devices on the local network.
3. During run time, keep the auto-discovery dropdown selection on "Manual" and enter the IP address and port into the fields provided on the plugin.

All methods are persistent ways of connecting and will persist through reboots and design pushes.



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PLUGIN CONTROLS (Setup)

Auto-Discovery	Provides a list of "Manual" and discovered Shure devices on the local network that match the model of this plugin. Each discovered device will only show if the model matches the model type of the plugin. Select a device from the dropdown menu to connect and control. <i>[Both String]</i>
Manual-Entry IP Address	If Auto-Discovery is set to "Manual" this address will be used for device connection. <i>[Both String]</i>
Port	Set the port the plugin will use to connect to the device. <i>[Both String]</i>
Status	Indicates the plugin status. <i>[Output String]</i>
Is Communicating	Indicates the plugin established a connection with the device. <i>[Output Boolean]</i>
Is Initialized	Indicates the plugin has synced all states from the device. <i>[Output Boolean]</i>
Control Network IP Address	Reports the IP address of the device connected. <i>[Output String]</i>
Control Network MAC Address	Reports the MAC address of the device connected. <i>[Output String]</i>
Control Network Web Link Access	Reports the address the device can be connected to in a browser. <i>[Output String]</i>
Audio Network IP Address	Indicates the audio network IP address. <i>[Output String]</i>
Audio Network Subnet Mask	Indicates the audio network subnet mask. <i>[Output String]</i>



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Audio Network Gateway	Indicates the audio network gateway. <i>[Output String]</i>
Dante Device Name	Indicates the Dante device name. <i>[Output String]</i>
Control Network Device Name	Indicates the control network device name. <i>[Output String]</i>
Device Model	Indicates the model. <i>[Output String]</i>
Serial Number	Indicates the serial number. <i>[Output String]</i>
Firmware	Indicates the firmware version. <i>[Output String]</i>
Encryption	Indicates audio encryption state. True means audio encryption is on. <i>[Output Boolean]</i>
Reboot Device	Triggers a device reboot. <i>[Input Boolean]</i>
Device Mute	Toggles the device mute and reflects the current state. <i>[Both Boolean]</i>
Identify	Flashes device status LEDs and reflects the current state. <i>[Both Boolean]</i>



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PLUGIN CONTROLS (Lights)

Brightness	Set the brightness of the LED on the device. Valid values are 0-5. <i>[Both Number]</i>
Unmute Behavior	Set the behavior of the LED on the device in the unmute state. Valid values are: • Off • Flashing • On <i>[Both String]</i>
Unmute Color	Set the color of the LED on the device in the unmute state. Valid values are: • Red • Orange • Gold • Yellow • Yellow Green • Green • Turquoise • Powder Blue • Cyan • Sky Blue • Blue • Purple • Light Purple • Violet • Orchid • Pink • White <i>[Both String]</i>
Mute Behavior	Set the behavior of the LED on the device in the mute state. Valid values are: • Off • Flashing • On <i>[Both String]</i>



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Mute Color	Set the color of the LED on the device in the mute state. Valid values are: • Red • Orange • Gold • Yellow • Yellow Green • Green • Turquoise • Powder Blue • Cyan • Sky Blue • Blue • Purple • Light Purple • Violet • Orchid • Pink • White [Both String]
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PLUGIN CONTROLS (Presets)

Preset # Name	Indicates the name of the associated preset number. <i>[Output String]</i>
Preset # Recall	Trigger to recall the associated preset number. <i>[Output Boolean]</i>



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PLUGIN CONTROLS (Channels)

Channel (# or Automix) Name	Indicates the current channel name. Read only. <i>[Output String]</i>
Channel (# or Automix) Gain Fader	Controls the gain of the channel and reports the current gain. Valid values are 0 - 1400 <i>[Both Number]</i>
Channel (# or Automix) Gain Text	Controls the gain of the channel and reports the current gain in dB. Valid values are -110.0 to 30.0. <i>[Both String]</i>
Channel (# or Automix) Gain Increment	Trigger to increment the channel gain by 0.1 dB. <i>[Input Boolean]</i>
Channel (# or Automix) Gain Decrement	Trigger to decrement the channel gain by 0.1 dB. <i>[Input Boolean]</i>
Channel (# or Automix) Meter	When Channel Metering is enabled, this reports the meter of this channel. <i>[Output Number]</i>
Channel (# or Automix) Mute	Toggles the mute of this channel and reports the current mute state. <i>[Both Boolean]</i>
Channel (# or Automix) Dante Name	Indicates the current channel Dante name. Read only. <i>[Output String]</i>
Meter Channel-Automix Enable	Toggle to enable/disable metering of channel and automix. <i>[Both Boolean]</i>



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ADDITIONAL INFORMATION

Change Log	v1.0 – Initial Release
Support	Company: Shure Email: support@shure.com