



Manufacturer: Shure
Model: Microflex® Advance™
Device Type: Microphone

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| GENERAL INFORMATION | |
|-------------------------|---|
| Q-SYS PLUGIN NAME | Shure Microflex® Advance™ |
| VERSION | 1.0 |
| AUTHORED BY | Control Concepts, Inc. |
| SUMMARY | Use this Q-SYS plugin to control Shure Microflex® Advance™ devices 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 | <p>This plugin is designed to support the following models:</p> <ul style="list-style-type: none">• MXA-MUTE• MXA710• MXA901• MXA902• MXA910• MXA920 <p>Controls will be disabled when they cannot be used for device control.</p> <ul style="list-style-type: none">• When automatic coverage is on, there aren't any pre- or post-gate channel gain controls. There is 1 gain fader for the automix output.• If the Loudspeaker is set to off in the device settings, the plugin Loudspeaker controls will be disabled. |
| DEVICE USED FOR TESTING | Q-SYS Core 110f (v9.9.0) |



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INITIAL SETUP

| | |
|--------------------------------|---|
| PROPERTIES | <p>Model: Select the model the plugin will connect to. Valid models are:</p> <ul style="list-style-type: none">• MXA-MUTE• MXA710-2FT• MXA710-4FT• MXA901• MXA902• MXA910• MXA920 [Default] <p>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.</p> <p>Debug Level: Indicates the specificity level of messages that appear in the debug window. The options include:</p> <p>1-Off: No messages will be printed. [Default]</p> <p>2-Device Communication: Only messages related to commands going to/coming from physical devices will be printed.</p> <p>3-Troubleshooting: All internal messages will be printed.</p> <p>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]</p> |
| ESTABLISHING CONNECTION | <p>This plugin has three ways of establishing a connection:</p> <ol style="list-style-type: none">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. <p>All methods are persistent ways of connecting and will persist through reboots and design pushes.</p> |



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PLUGIN CONTROLS (Setup)

| | |
|--|---|
| Auto-Discovery | <p>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.</p> <p><i>[Both String]</i></p> |
| Manual-Entry IP Address | <p>If Auto-Discovery is set to “Manual” this address will be used for device connection.</p> <p><i>[Both String]</i></p> |
| Port | <p>Set the port the plugin will use to connect to the device.</p> <p><i>[Both String]</i></p> |
| Status | <p>Indicates the plugin status.</p> <p><i>[Output String]</i></p> |
| Is Communicating | <p>Indicates the plugin established a connection with the device.</p> <p><i>[Output Boolean]</i></p> |
| Is Initialized | <p>Indicates the plugin has synced all states from the device.</p> <p><i>[Output Boolean]</i></p> |
| Control Network IP Address | <p>Reports the IP address of the device connected.</p> <p><i>[Output String]</i></p> |
| Control Network MAC Address | <p>Reports the MAC address of the device connected.</p> <p><i>[Output String]</i></p> |
| Control Network Web Link Access | <p>Reports the address the device can be connected to in a browser.</p> <p><i>[Output String]</i></p> |
| Audio Network IP Address | <p>Indicates the audio network IP address.</p> <p><i>[Output String]</i></p> |
| Audio Network Subnet Mask | <p>Indicates the audio network subnet mask.</p> <p><i>[Output String]</i></p> |



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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> |
| Automatic Coverage | Indicates automatic coverage is true. This is only available on the MXA920. <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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Mute Control Mode

Sets the mute control mode of the button. (MXA-MUTE only)

Valid values are:

- Toggle
- Push-to-talk
- Push-to-mute

[Both | String]



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PLUGIN CONTROLS (Lights)

| | |
|------------------------|---|
| Brightness | <p>Set the brightness of the LED on the device. Valid values are 0-5.</p> <p><i>[Both Number]</i></p> |
| Unmute Behavior | <p>Set the behavior of the LED on the device in the unmute state.</p> <p>Valid values are:</p> <ul style="list-style-type: none">• Off• Flashing• On <p><i>[Both String]</i></p> |
| Unmute Color | <p>Set the color of the LED on the device in the unmute state.</p> <p>Valid values are:</p> <ul style="list-style-type: none">• Red• Orange• Gold• Yellow• Yellow Green• Green• Turquoise• Powder Blue• Cyan• Sky Blue• Blue• Purple• Light Purple• Violet• Orchid• Pink• White <p><i>[Both String]</i></p> |
| Mute Behavior | <p>Set the behavior of the LED on the device in the mute state.</p> <p>Valid values are:</p> <ul style="list-style-type: none">• Off• Flashing• On <p><i>[Both String]</i></p> |



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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. [Output String] |
| Preset # Recall | Trigger to recall the associated preset number. [Output Boolean] |



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PLUGIN CONTROLS (Channels / Automix / Loudspeaker)

| | |
|---|---|
| Channel (# or Automix or Loudspeaker) Name | Indicates the current channel name. Read only. <i>[Output String]</i> |
| Channel (# or Automix or Loudspeaker) 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 or Loudspeaker) 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 or Loudspeaker) Gain Increment | Trigger to increment the channel gain by 0.1 dB. <i>[Input Boolean]</i> |
| Channel (# or Automix or Loudspeaker) Gain Decrement | Trigger to decrement the channel gain by 0.1 dB. <i>[Input Boolean]</i> |
| Channel (# or Automix or Loudspeaker) Meter | When Channel Metering is enabled, this reports the meter of this channel. <i>[Output Number]</i> |
| Channel (# or Automix or Loudspeaker) 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-Loudspeaker Enable | Toggle to enable/disable metering of channel, automix, and loudspeaker. <i>[Both Boolean]</i> |



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PLUGIN CONTROLS (IntelliMix)

| | |
|-----------------------------------|---|
| IntelliMix Name | Indicates the current IntelliMix channel name. Read only. <i>[Output String]</i> |
| IntelliMix Gate Out Signal | Indicates if this IntelliMix Channel is actively open. <i>[Output Boolean]</i> |
| IntelliMix Gain Fader | Controls the gain of the IntelliMix channel and reports the current gain. Valid values are 0 – 1400. <i>[Both Number]</i> |
| IntelliMix Gain Text | Controls the gain of the IntelliMix channel and reports the current gain in dB. Valid values are - 110.0 to 30.0. <i>[Both String]</i> |
| IntelliMix Gain Increment | Trigger to increment the IntelliMix channel gain by 0.1 dB. <i>[Input Boolean]</i> |
| IntelliMix Gain Decrement | Trigger to decrement the IntelliMix channel gain by 0.1 dB. <i>[Input Boolean]</i> |
| IntelliMix Meter | When IntelliMix Metering is enabled, this reports the meter of this IntelliMix channel. <i>[Output Number]</i> |
| Meter IntelliMix Enable | Toggle to enable/disable metering of Channel, Automix, and Loudspeaker. <i>[Both Boolean]</i> |



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KNOWN ISSUES

- The MXA710-2FT and MXA710-4FT IntelliMix metering does not work properly on firmware v 1.5.16.

ADDITIONAL INFORMATION

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