Shure MXA310

This Tech Tip describes the steps necessary to locate and use the Dante audio, program the touch-sensitive mute buttons, and control the LED’s on the Shure MXA310 from Composer.

The Microflex Advance Table Array is a networked array microphone ideal for AV Conferencing applications where premium audio and a low profile appearance are paramount. Shure IntelliMix® DSP Suite Steerable Coverage™ technology deploys four discrete zones of table coverage for best-in-class audio capture, configuring all parameters seamlessly through a browser-based graphical user interface.

Here are the steps to create the Dante audio flow for the MXA310 within Composer.

1. Make sure the Symetrix DSP being used to locate the MXA310 is running matching Composer firmware (must be Composer version 5.3 or newer).
2. In the Toolkit, open up Third-party Dante Devices, Shure. Drag an MXA310 into the Site files Design view.
3. Locate the DSP, and then the MXA310.
4. Right click on the MXA310 and select MXA310 Unit Properties.
5. Enter the Control Interface IP for the MXA310, and then click Verify Control IP. Click OK.

Note: The Control Interface IP for the MXA310 can be obtained from the Shure Web Device Discovery software available from the Shure website: http://www.shure.com/americas/products/software/utilities/shure-web-device-discovery-application

6. Double-click on the DSP to open the site files Design view.

8. Wire the MXA310 Mic Flow into the design.

Program the touch-sensitive mute button for toggle, push-to-mute, push-to-talk or disable settings or to send controls to external devices. Here are the steps to utilize the button on the MXA310 from Composer.

1. In the Toolkit, open Control Modules, Control Inputs. Drag in a 1 Button Momentary module.

2. Double-click and open the 1-Button Momentary module to open it.
3. Right-click the “On” button.
4. Select Set Up to Remote Control.

5. In the Set Up Remote Control window, select 3rd Party Remote Analog Input – ‘MXA310’. Click OK.

7. Wire the 1 Button Momentary module into the 1-Button Processor Super module.

8. Double click the 1-Button Processor to open the Super-module control screen.

9. Select the desired microphone switch operation (Push to Talk, Push to Mute, Toggle, or Disabled).

10. Double click and open either a Gain Module or Automixer used in the signal processing and routing of the MXA310. In this example, a Gain-sharing Automixer is used.

11. Right-click on the Master Mute button, select Set Up to Remote Control.

13. Then Click “Select”.
14. Expand 1-Button Processor, select 1 Off/R. Click OK.

Note: The Master Mute button of the Gain-sharing Automixer will now be controlled by the state of the red LED of the super-module. When the red LED is active, that mic will be muted. When the red LED is inactive, the mic will be unmuted.

15. In the Toolkit, open up Control Modules, Control Outputs. Drag in a Remote Logic Output module.

16. The Remote Logic Output Properties window will open. For Remote Unit, select MXA310. For Logic Output, select Light Ring – Ring. Click OK.

17. Wire the On/G output from the 1-Button Processor Super-module into the Remote Logic Output.

18. Return to the Site files main Site View and push the Site file to Go-Online.
Composer can control the MXA310 LEDs separately or as 4 individual sections. However, the setup in the Shure web GUI has to be setup correctly first, to allow this. The default MXA310 setup won’t allow LED control from Composer. Here are the steps to control the MXA310’s LED’s from Composer.

1. Right click on the MXA310, and select Unit Properties

2. Click the “Launch Web Configuration Interface” button.

3. To control the LEDs from Composer, turn off “Display Automix Gating” and select “Ring” for Lighting Style, on the Light Ring tab.

Note: If the option for “Display Automix Gating” is not visible, select the Button Control tab and temporarily select “Local” for the Mute Control Function. Then select the Light Ring tab to uncheck the box for “Display Automix Gating”.

4. On the Button Control tab, set the Mute Control Function to “Logic Out”.

5. Set the Mute Control Mode to “Push to talk”. Push to talk should always be the selection regardless of which microphone switch operation is selected in the 1-Button Processor Super-module in the Composer site file.