Shure® IntelliMix P300

Audio Conferencing Processor

The Shure IntelliMix P300 Audio Conferencing Processor can be controlled with Mira Connect™, Aveo Systems' smart control appliance. The Shure P300 offers IntelliMix DSP algorithms optimized for audio and video conferencing applications, featuring 8 channels of acoustic echo cancellation, noise reduction, and automatic gain control to ensure a high-quality audio experience.

Mira Connect communicates and controls the Shure IntelliMix P300 over an Ethernet network using channel numbers defined in the Shure IntelliMix P300 API document.

To integrate the Shure IntelliMix P300 with Mira Connect, first browse into the Shure IntelliMix P300 and customize the audio processing settings for your application. The Shure Web Device Discovery Application makes it easy to find the Shure IntelliMix P300 on your network. Next, add the Shure IntelliMix P300 to the room in Mira Portal (https://mira.aveosystems.com), enter its IP address and press 'add equipment'. Mira Connect will connect to the Shure IntelliMix P300 and show status of the connection and control points.
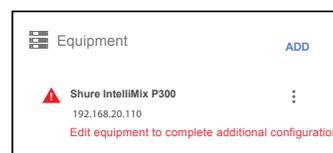
To edit the equipment, select Edit from the device's ⋮ menu, select Audio Controls and select the desired control points and then press 'update equipment'. Mira Portal will show the equipment status as a green circle if all the control points are valid.

⚠ Note: Presets in the Shure IntelliMix P300 store all parameters in the device. As a result, restoring a preset with the 'Overflow Room' user interface can cause volume and mute status to change depending on the settings stored in the preset. While Mira Connect tracks those changes automatically, users may not expect volume or mute status to change when enabling or disabling an overflow room.

Important information about the integration is summarized below.

Connection Interface

Network connection using TCP, port 2202

Room Volume Control

Mira Connect uses 50dB of the output gain range corresponding to +12 to -38dB. Setting the Mira Connect room volume to its minimum will set the output gain to -110dB (-infinity), preventing audio from being heard in the room.

Software Versions

Tested with device firmware 2.1.6

Mira Connect

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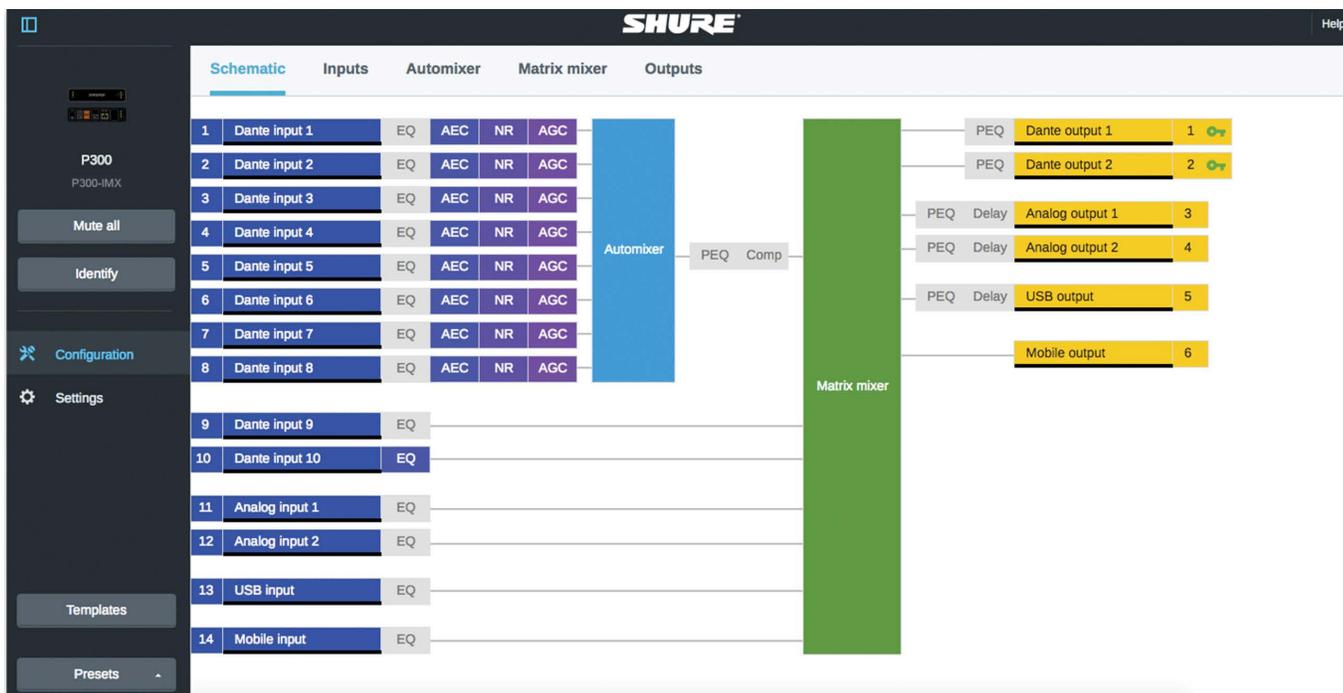
The Shure IntelliMix P300 System processing diagram shows the signal flow. Double-click any processing or input and output block to customize the settings for your application.

Select the Audio Controls from the list of discovered channel numbers and descriptions. In this example, the microphone mute for the system uses the Automixer Output Mute control.

For more information please contact our Sales Department at sales@aveosystems.com.

About Aveo Systems

Aveo Systems is a leading provider of intuitive and easy-to-use solutions for audio, video, and collaboration, improving how systems are used and managed by customers world-wide.