

Audio-Technica ATND1061DAN

Beamforming Ceiling Array Microphone



The Audio-Technica ATND1061DAN Beamforming Ceiling Array Microphone can be controlled with Mira Connect™, Aveo Systems' smart control system.

Functionality Supported

Mira Connect supports muting and level adjustment of the audio channels associated with one or more beamforming array microphones.

Models Supported

ATND1061DAN Beamforming Ceiling Array Microphone

Integration Steps

To integrate an Audio-Technica ATND1061DAN with Mira Connect, first configure the microphone settings and customize the channel names and zone definitions using the Audio-Technica Digital Microphone Manager software.

Once the microphone settings have been configured, then follow these steps:

Step 1

Add the Array Microphone to the room

Navigate to the desired room in Mira Portal (<https://mira.aveosystems.com>), select the equipment heading, and then click **ADD**.

Select the Audio-Technica Beamforming Array Mic from the equipment list, select the ATND1061DAN model, and enter the IP address of the device and click **Add Equipment**.

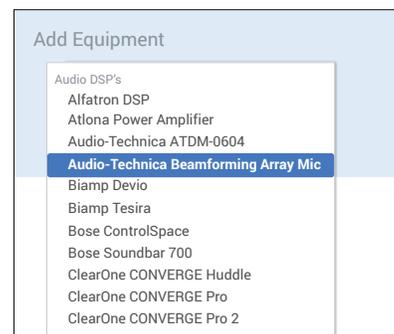
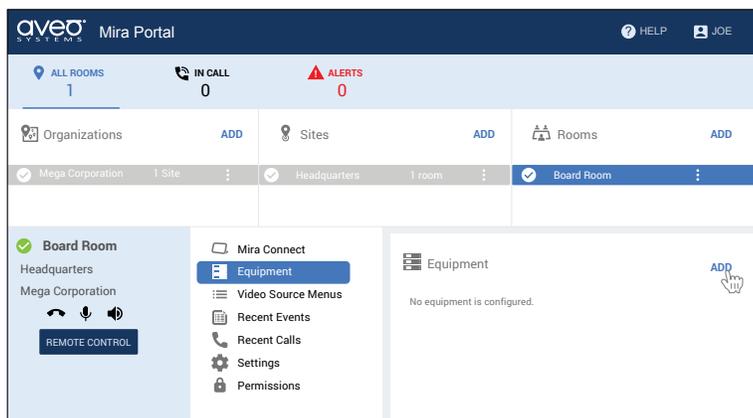
If you don't have the array microphone yet, you can enable 'Simulate Equipment' to use the built-in array microphone emulator while setting up the rest of the system.

The ATND1061DAN LED will flash when Mira Connect initially connects to the device. To flash the LEDs again, simulate the equipment, save, and then unsimulate the equipment and save again. This will cause Mira Connect to reconnect to the device.



Note: Set a static IP address on the Audio-Technica ATND1061DAN or use a reserved DHCP address on your DHCP server so the IP address of the microphone doesn't change over time. See the [ATND1061DAN online manual](#) for how to set a static IP address.

Mira Connect will connect to the Audio-Technica ATND1061DAN at the specified IP address and show the status of the connection and control points.



If the Audio-Technica ATND1061DAN is not detected at the specified IP address, a **▲ Connection failed** message will be shown. To resolve, confirm the IP address and that Mira Connect's network connection can reach the device. Edit the equipment by clicking **⋮** and update the IP address of the device.

If the Audio-Technica ATND1061DAN is found at the specified IP address, but there are no control points defined (i.e., Mira Connect doesn't know what to control), an **✔ Edit equipment to complete additional configuration** message will be shown. We'll address this in step 2.

If the Audio-Technica ATND1061DAN is found at the specific IP address and there is at least one valid control point defined telling Mira Connect what to control, the **✔** will appear indicating the device is being controlled by Mira Connect.

If you are adding multiple Audio-Technica ATND1061DAN's, follow these steps for each one.



Step 2

Define the control points

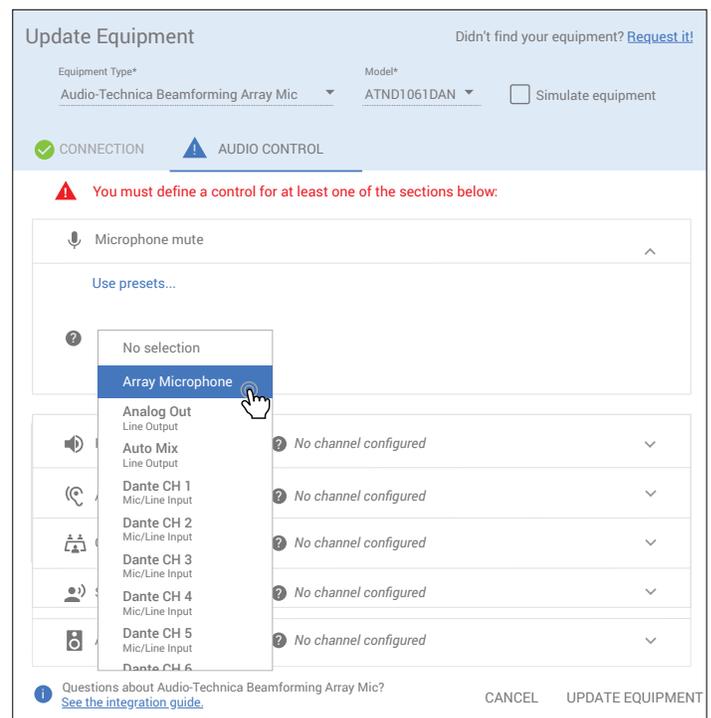
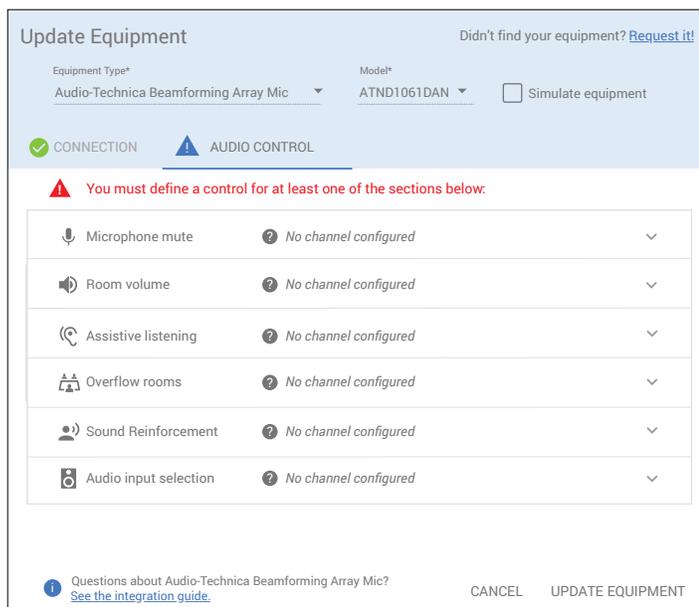
Edit the Audio Controls to specify what Mira Connect is controlling on the device. To edit the equipment, select Edit from the device's **⋮** menu and then select Audio Control.

If there are no control points defined, the system will appear with a red triangle, **▲**, as shown in the following figures when you edit the equipment and navigate to the Audio Control tab.

To add a microphone mute control point expand the control point by clicking in the field and select a valid channel from the list. All the channel names and the type of channel that can be used for that control are shown on the list. To control the overall mute of the array microphone, choose the "Array Microphone" channel.

To control individual microphone zones or beams, you can expand the Sound Reinforcement channels and select specific audio channels. You can add mute and volume control points. These mute and volume controls will appear under the 'Who Can Hear Me' option on Mira Connect.

The same audio channel cannot typically be used in multiple places in the Mira Connect user interface. For example the microphone mute channel cannot also be used as a sound reinforcement mute channel because it would create a confusing user interface.



Once your audio channel control points have been added, click **Update Equipment** to update your system.

Microphone Mute

Mira Connect's Microphone mute control generates an overall room mute icon  that controls the mute state of the selected mute channel.

In most applications, the "Array Microphone" channel will be selected for the Microphone mute as that channel provides overall mute of the microphone and also configures the LED to show green when unmuted and red when muted (or whichever color was designated as Mute/Unmute during installation).

If you have multiple Audio-Technica ATND1061DANs, you configure each one in Mira Portal as the Microphone mute channel. In version 1.43 and higher of Mira Connect firmware, there is built-in mute synchronization to ensure all devices that have defined the Microphone mute control will remain mute synchronized. This makes it easy to add multiple Audio-Technica ATND1061DAN's and a DSP audio device that the microphones are connected to.

Note that any of the 16 microphone presets can be used for muting and unmuting the system, or for enabling/disabling specific beams or zones by clicking the Use Presets... link associated with the control point.

Select a preset to mute (or disable the feature) the system, a preset to unmute (or to enable the feature) the system, and a status channel that is affected by the presets that will reflect the status of the system.

Zone Control

Use the Sound Reinforcement Audio Control to add 'Who Can Hear Me' controls for managing specific zones or beams as shown in the example Mira Connect user interface.

Room Volume Control

Mira Connect uses 50dB of the output gain range corresponding to +10 to -40dB for room volume. Setting the Mira Connect room volume to its minimum will mute the output gain channel preventing audio from being heard in the room.

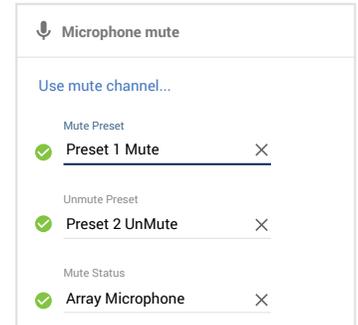
Volume controls for sound reinforcement, overflow rooms, and assistive listening use a range of +10 to -14dB to support +/- 12dB of gain adjustment.

Software Versions

Tested with Audio-Technica ATND1061DAN firmware 01.00.04

Connection Interface

Network connection using TCP, port 17300



Presets can also be selected to enable/disable beams or zones.



Example Mira Connect user interface for a typical system. The background image, logo, and other equipment controlled are all configured in Mira Portal.

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

About Aveo Systems

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