

Alfatron PA100W

Audio Amplifier



The Alfatron PA100W amplifier can be controlled with Mira Connect™, Aveo Systems' smart control appliance.

Functionality Supported

Mira Connect supports source selection of the three inputs and muting and volume control of the output channel.

Models Supported

Alfatron PA100W

Integration Steps

To integrate a Alfatron PA100W with Mira Connect, follow these steps:

Step 1

Add the device

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

Select the Alfatron DSP from the equipment list, select the PA100W model and enter the IP address of the device, or of the Global Cache IP2SL device if using serial control, and click **Add Equipment**.

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



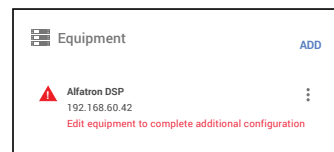
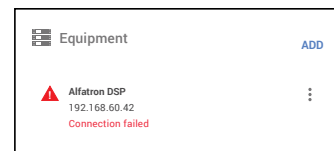
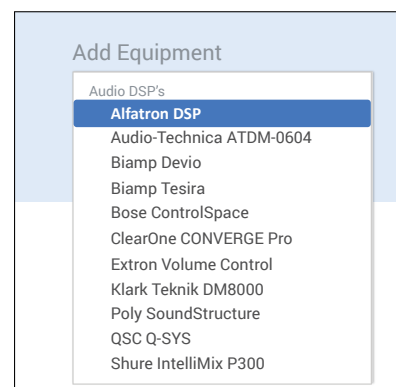
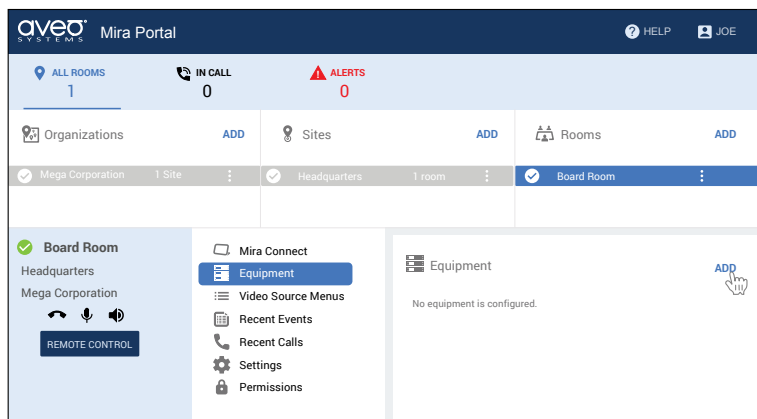
Note: Set a static IP address on the device or Global Cache IP2SL or use a reserved DHCP address on your DHCP server so the IP address of the device doesn't change over time.

Mira Connect will connect to the Alfatron PA100W at the specified IP address and show status of the connection and control points.


If the Alfatron PA100W 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. If using a Global Cache IP2SL device, confirm the baud rate and cable pinout as described later in this document. Edit the equipment by clicking **:** and update the IP address of the device.

If the Alfatron PA100W is found at the specified IP address, but there are no control points defined, an **Edit equipment to complete additional configuration** message will be shown. We'll address that in step 2.

If the Alfatron PA100W is found at the specific IP address and there is at least one valid control point defined, the **✓** will appear indicating the device is being controlled by Mira Connect.



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 as shown in the following figure.



To add a control point, for example, a microphone mute, expand the control point by clicking in the field and select a valid value from the list.

Channel names and the type of channel are shown on the list.

The same audio channel cannot typically be used in multiple places, 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 selections points have been added, click **Update Equipment** to update your system.

Channel Source Selection

There are three input sources available on the device, of which only one can be selected at a time. To configure source selection, edit the Audio Input Selection and enter the three channels.

In the figure to the right, we've added Input 1 for a source selection. Click the ADD button to add additional input channels. Click Update Equipment to update the user interface on Mira Connect.

Room Volume Control

Mira Connect uses 50dB of the output gain range corresponding to +60 to 0 device volume commands. 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 +60 to 36 on the device's volume control to provide approximately +/- 12dB of gain adjustment.

Software Versions

Tested with Alfatron PA100W.

Connection Interface

The Alfatron PA100W is controlled over telnet using port 4001.

Connections over RS-232 with the Global Caché network interface use TCP, port 4999. Set a static IP address, or use a 'reserved' lease on a DHCP server to ensure the IP address of the Global Caché IP2SL does not change over time.

! The default RS-232 baud rate for the device is 9,600 baud. Since the default baud rate of the Global Caché IP2SL interface is 19,200 baud, you **must** change the baud rate on the Global Caché IP2SL interface to 9,600.

See the Global Caché [integration guide](#) for how to change the baud rate and how to set a static IP address.

RS-232 requires a straight-through RS-232 9-pin Female to 3-pin terminal block connection as shown in the following figure.

Update Equipment

Didn't find your equipment? [Request it!](#)

Equipment Type*
Alfatron PA100W

☐ Simulate equipment

CONNECTION

AUDIO CONTROL

Audio input selection

Mute *

☒ Input 1

NOTE: Only one input can be unmuted at a time on this equipment. The other inputs will be automatically muted.

Icon*

☒

Label*

☒ RCA Input

NOTE: This label is displayed in Mira Connect.

Description (Optional)

☒ Use the red and black cable

NOTE: This description is displayed in Mira Connect.

REMOVE

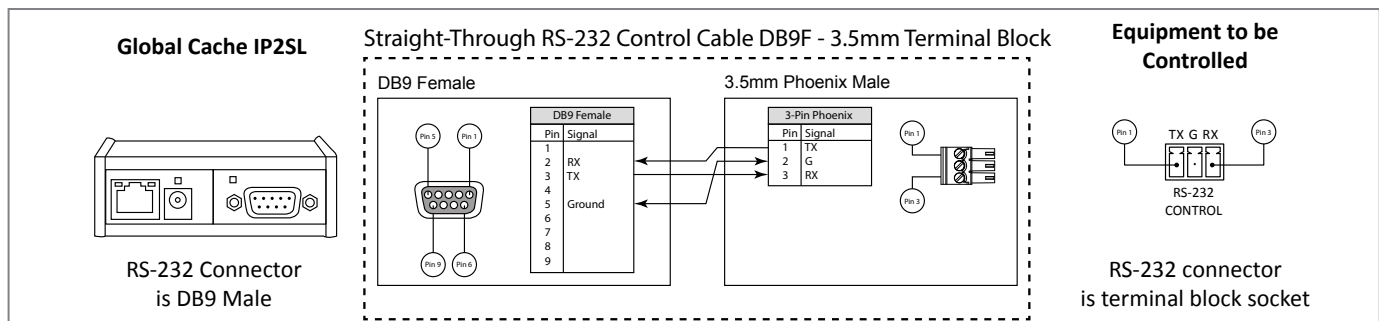
ADD

Questions about Alfatron PA100W?

[See the integration guide.](#)

CANCEL

UPDATE EQUIPMENT



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

About Aveo Systems

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