Integrating a Virtual display with Mira Connect™

Virtual displays can be controlled with Mira Connect™, Aveo Systems'® smart control appliance.

This integration guide provides detailed steps for configuring Mira Connect (using Mira Portal) to control the Virtual display.

Virtual displays can be used to route inputs to outputs from a video switcher. The virtual display behaves like a real display and is assigned an output from a video switcher, but without controls for power, volume, display blank/freeze. Virtual displays are designed for applications where a user needs to select and input to a particular output of a video switcher, but doesn't need to control an actual display.

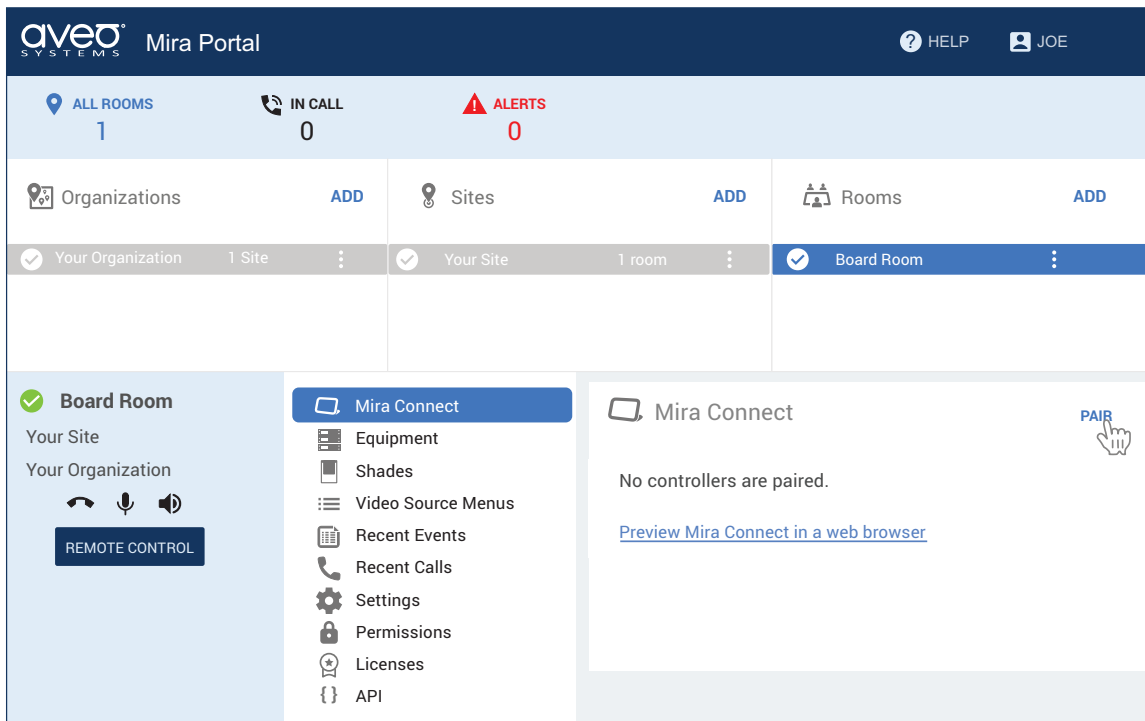**Figure 1:** The Mira Connect AV control system controls thousands of devices, including the Virtual display.

Integration Steps

To integrate a Virtual display with Mira Connect, follow these steps:

Step 1. Add the desired room to Mira Portal

To get started with Mira Portal, create an organization, site, and room in Mira Portal if you don't already have a room. Follow the tutorial for creating a room after creating a Mira Portal account. IF you don't already have an account you'll need to create one. There is no cost to create a Mira Portal account.

Next, pair a Mira Connect to the room or use the *Preview Mira Connect in a web browser* feature.

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1

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Figure 2: Create an organization, site, and room in Mira Portal and then pair the Mira Connect to the room.
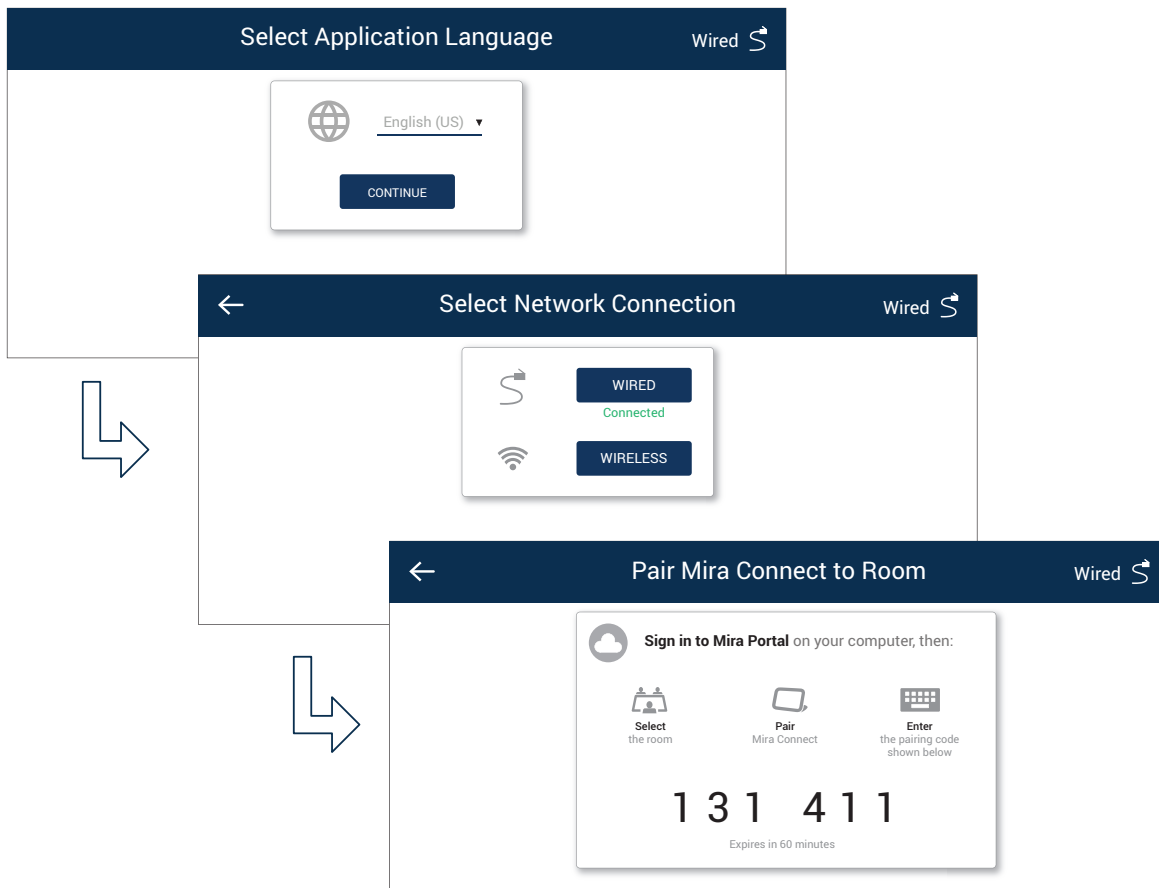

Step 2. Pair Mira Connect to the room

If you have a Mira Connect appliance, connect it to the network and power it up. Mira Connect appliances can use a PoE network connection. *Mira Connect requires WAN access to pair with the room in Mira Portal*. See our getting started guide for more information about WAN options during installation.

The *Preview Mira Connect in a web browser* feature opens a new browser tab and creates an interactive demo of the user interface before you have a Mira Connect or any equipment. The preview feature uses Mira Connect's built-in equipment emulators to create an interactive user experience before any equipment is purchased.

To pair a Mira Connect control system to your room:

- For Mira Connect appliances, select your language, network (wired or wireless), and then Mira Connect will show a pairing code. Enter the pairing code into Mira Portal to associate the Mira Connect with the room in Mira Portal.

- If you are using Mira Connect software, follow the instructions in the Mira Connect Software Quick Install Guide to install the Mira Connect software and get a pairing code.
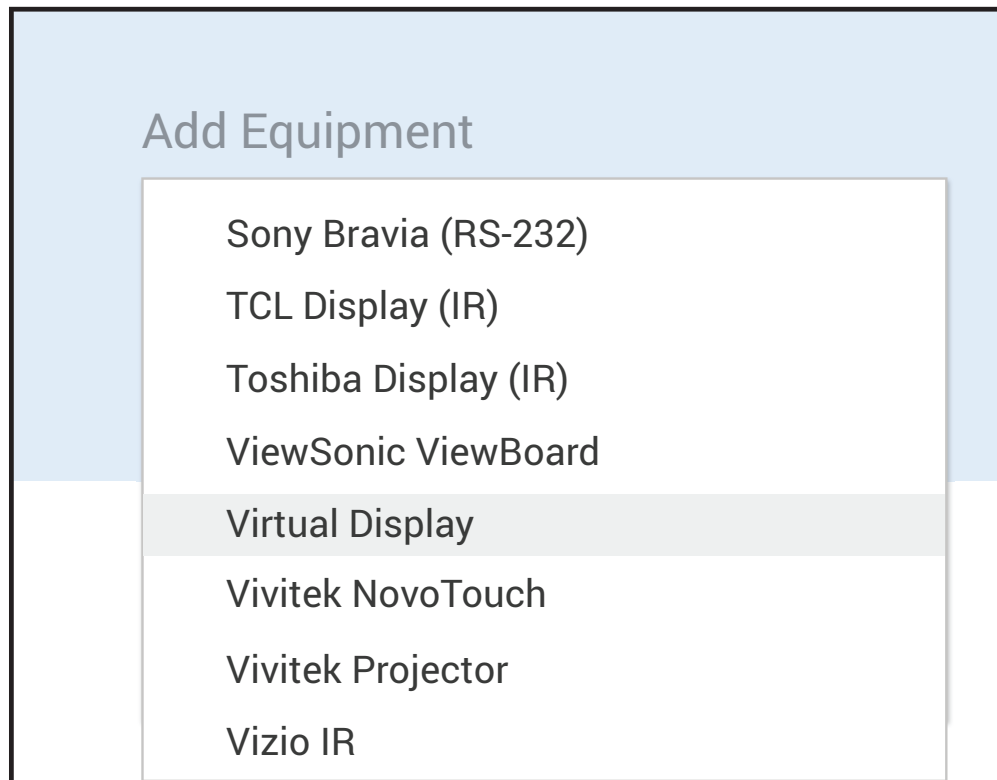
The following figures show the pairing steps when using Mira Connect appliances.

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2

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Figure 3: Select the language, select the network connection, and receive a pairing code.

Step 3. Add the Virtual display

To integrate a Virtual display with Mira Connect, first add the Virtual display and enter an IP address. Since the Virtual display is not a physical device, enter any IP address.

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3

Add Equipment

Sony Bravia (RS-232)

TCL Display (IR)

Toshiba Display (IR)

ViewSonic ViewBoard

Virtual Display

Vivitek NovoTouch

Vivitek Projector

Vizio IR

Figure 4: Click Add and select a Virtual display from the list of equipment.

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4

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Figure 5: Enter any IP address for the virtual display or select Simulated.
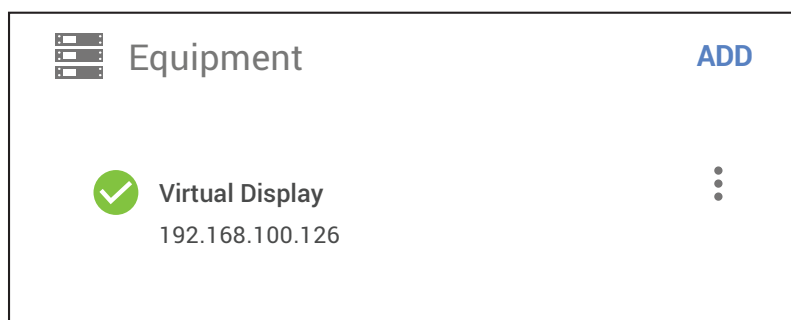
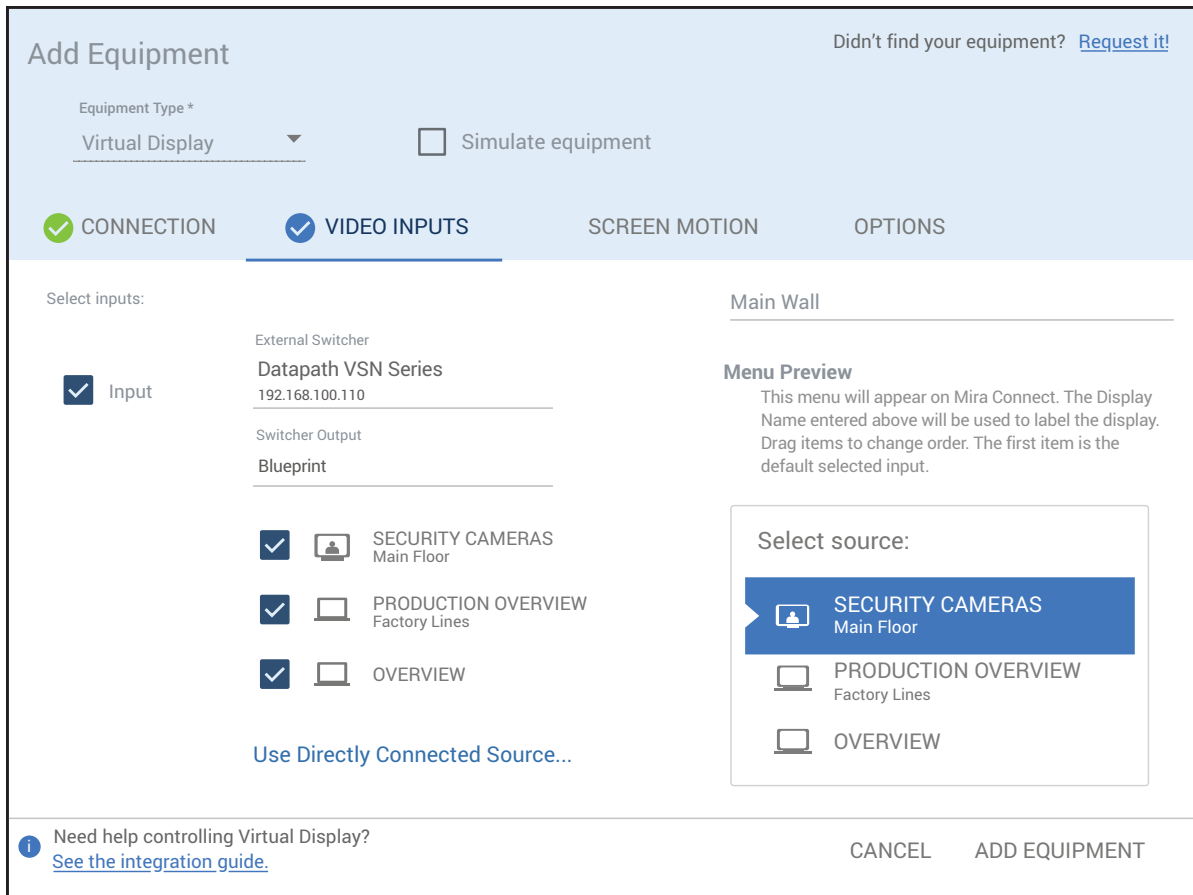**Figure 6:** Mira Connect will show the connection to the Virtual display as connected.

Step 4. Configure the video inputs

Navigate to the Video Inputs tab and enable the video input on the device. There is only one input source that can be used to connect to the output of a video switcher, by clicking the 'Use Sources Connected to Other Equipment…' link and selecting the device where the video input is coming from.

The display menu will be built and previewed on the VIDEO INPUTS tab within Mira Portal. An optional display name may be entered which is useful if you have multiple displays.

You can re-arrange the order of the items in the display menu by clicking and dragging an input in the Menu Preview.

Click 'Add Equipment' when done to connect to the virtual display.

Figure 7: Enable the input on the Virtual display and click 'Use Sources Connected to Other Equipment…' link to select the desired equipment that is connected to this device.

Control Interface

- As the virtual display is not a real device, it does not require a valid IP address to function. You can choose to simulate the device if you'd like as the Virtual display will operate correctly either simulated or not.

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 worldwide.

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6

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7