

Integrating a U Have Control uSwitch with Mira Connect™

U Have Control uSwitch products 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 U Have Control uSwitch.

uSwitch products can be used as contact closures for screen motion and controlling shades and blinds with contact closures. Mira Connect communicates and controls a uSwitch device directly over a network connection.



Figure 1: The Mira Connect AV control system controls thousands of devices, including uSwitch products.

Integration Steps

To integrate a U Have Control uSwitch with Mira Connect, follow these steps:

1. Configure the uSwitch device
2. Add a room in Mira Portal
3. Pair a Mira Connect to the room (or use UI Preview to *Preview Mira Connect in a web browser*)
4. Add the uSwitch device
5. Configure screen motion or add shades and blinds control

These steps are described in more detail next.

Step 1. Configure the uSwitch device

Browse into the uSwitch device, navigate to the Relay Settings, and customize the name for the contact closures. This will make it easier to select the desired contact closure in Mira Portal.

Step 2. Add a room to Mira Portal

To get started, 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. There is no cost to creating a Mira Portal account.

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

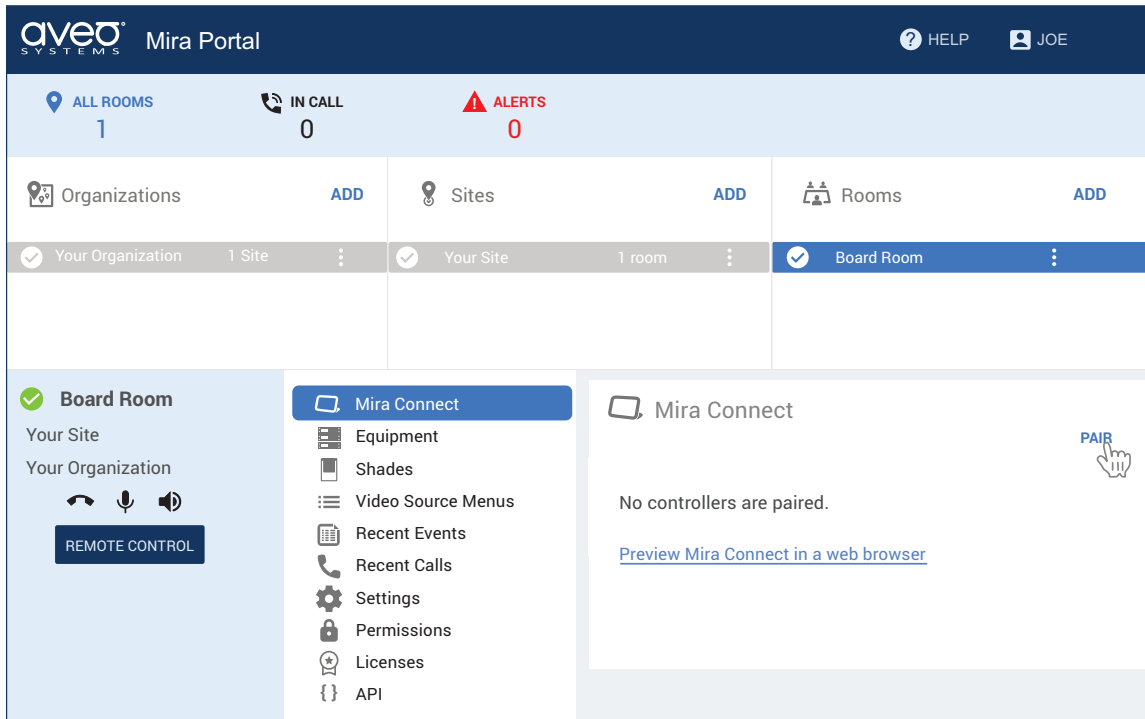


Figure 2: Create an organization, site, and room in Mira Portal and then pair the Mira Connect to the room.

Step 3. 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.*

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.

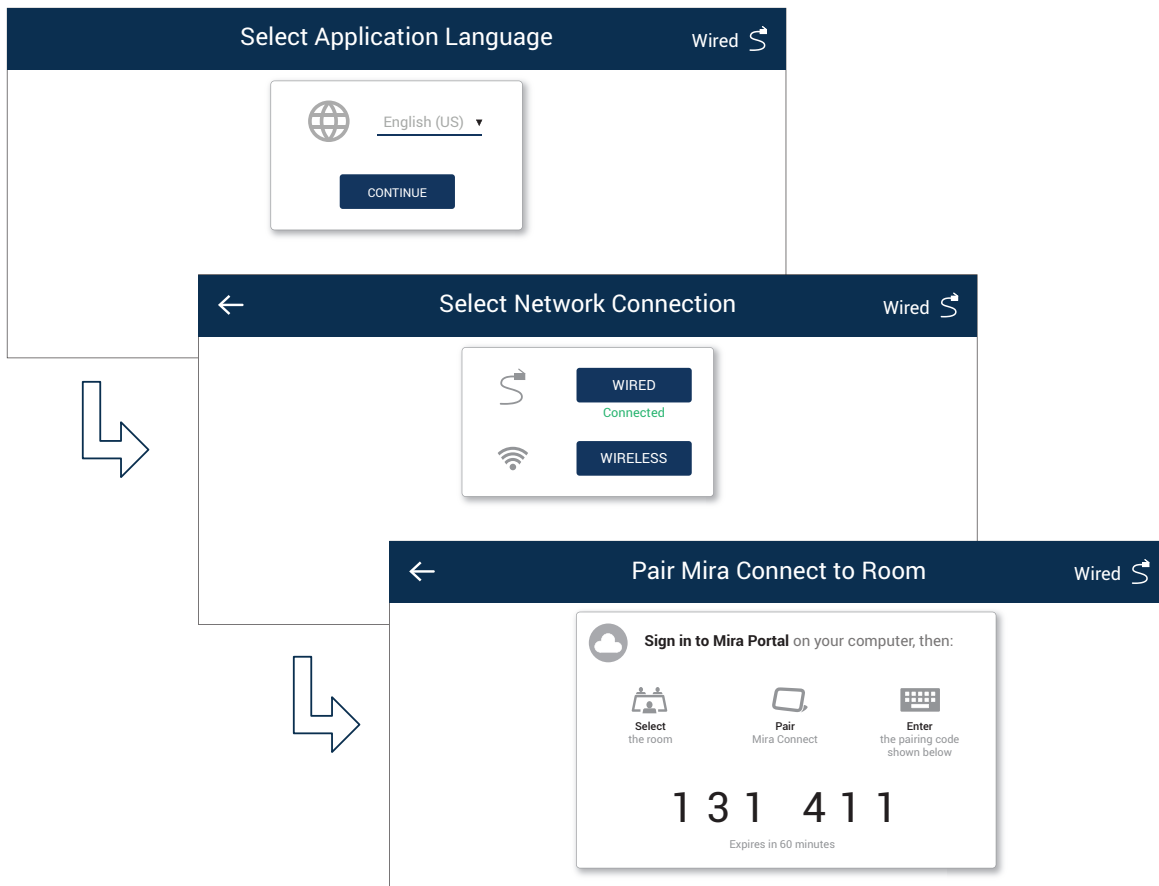


Figure 3: Select the language, select the network connection, and receive a pairing code.

Step 4. Add the uSwitch device

Add the uSwitch device to your room in Mira Portal (<https://mira.aveosystems.com>) by clicking Add and selecting the uSwitch device.

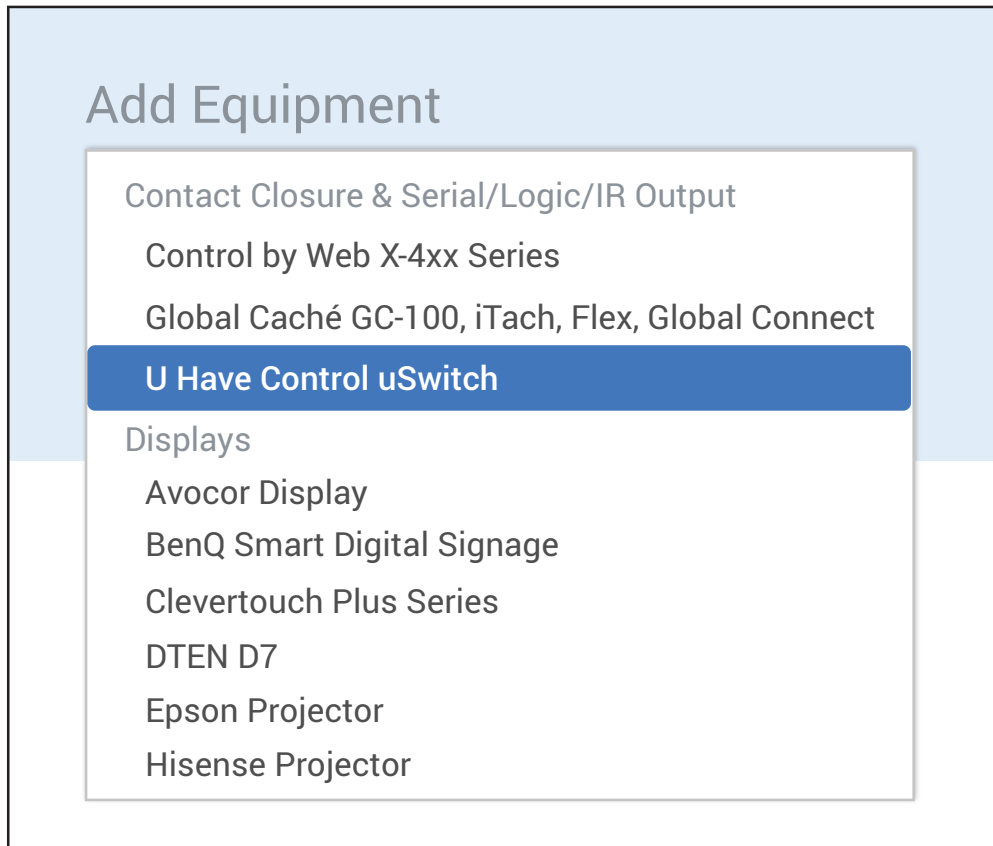


Figure 4: Select a uSwitch device to get started.

Enter an IP address for the device and an optional name that will appear as part of the equipment list in Mira Portal. The optional name (such as 'Screen lift' or 'blinds') makes it easy to see what the uSwitch device is being used for when looking at the equipment list in Mira Portal. Click 'Add Equipment' when done.

There are no other settings to configure on device. The number of contact closures will be detected automatically by Mira Connect.

Add Equipment

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

Equipment Type*
U Have Control uSwitch
 Simulate equipment

CONNECTION

✓
IP Address or Hostname*

Display name (optional)

? Contact closure applications, like screen motion, are configured on the related equipment. Edit the related display or projector and select the Screen Motion tab. [Help configuring screen motion.](#)

? Shade control using contact closure is configured in the room. Select the Shades menu item for the room and then add a new shade control. [Help configuring shade control.](#)

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 Questions about U Have Control uSwitch?
[See the step-by-step integration guide.](#)

CANCEL
ADD EQUIPMENT

Figure 5: Enter an IP address of the uSwitch device.

Once the equipment has been added to the room, Mira Portal will show the equipment status as a green circle if the IP address is valid and Mira Connect can communicate to the device. Otherwise the warning symbol will appear indicating the IP address is not correct or Mira Connect does not have a network route to the device.

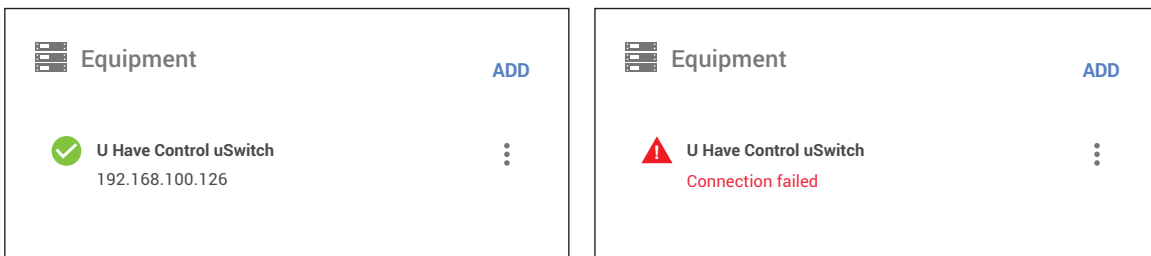


Figure 6: Connection status after adding uSwitch device.

Step 5. Add Blinds and Shades or Screen Motion Control

To add blinds and shades control, navigate to the Shades area and click Add.

See our [Screen Motion Control](#) and [Blinds and shades](#) articles for how to configure screen motion or how to control blinds and shades after the uSwitch device has been added to the room.

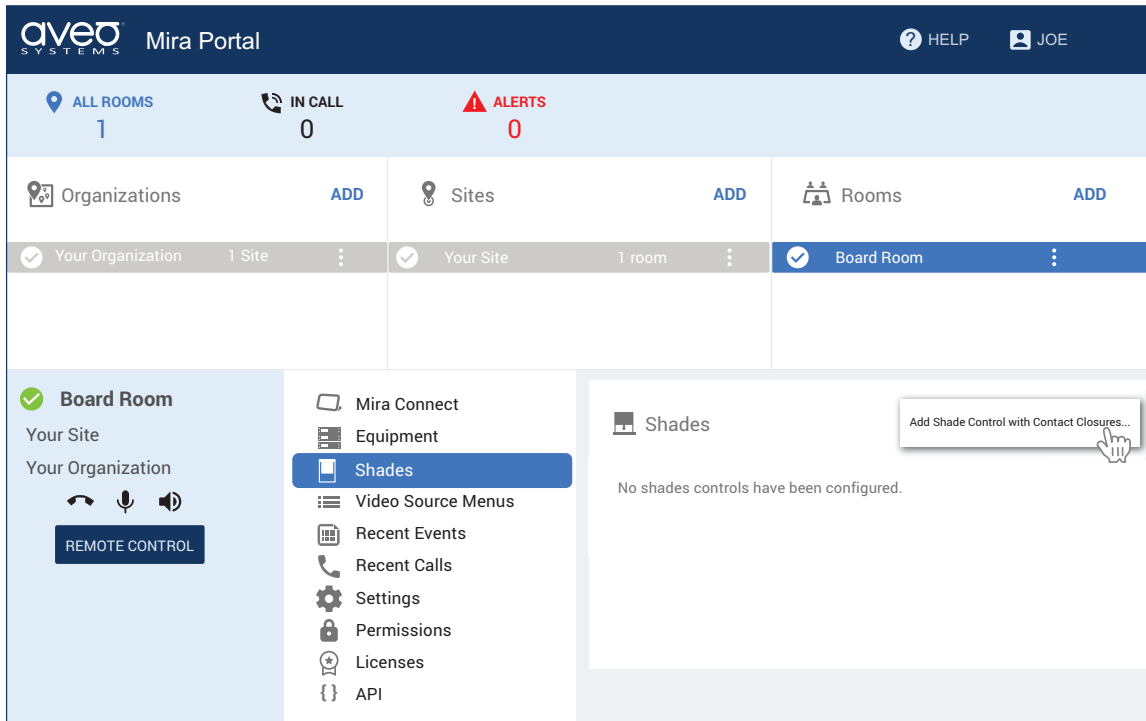


Figure 7: Click Add Shade Control with Contact Closures to configure controlling shades and blinds.

To add screen motion control, edit the desired projector or display and click Add Motion Configuration. Enter a label, and add contacts for the hide, stop, and show motion. The contact closure name is selected from the list of available contact closure names that are configured by browsing into the uSwitch device.

Figure 8: Click Add Motion Configuration to configuring controlling screen motion.

Click “Update Equipment” or “Add Equipment” when finished adding controls. If required fields have not been entered, the Update Equipment or Add Equipment button will be grayed out..

Mira Connect’s user interface will automatically update with the new controls for screen motion or blinds and shades control.

Control Interface

Mira Connect communicates with the uSwitch device over http.

To ensure the uSwitch device’s IP address doesn’t change over time, set a static IP address on the device by browsing into the device and configuring the network settings.

Troubleshooting

If you are having trouble controlling a U Have Control uSwitch, follow these steps:

- Ensure Mira Connect is on the same network as the uSwitch device.
- Ensure that static IP addresses (or reserved lease) have been set for the uSwitch device so the IP address doesn't change over time.
- See our [Screen Motion Control](#) and [Blinds and shades](#) articles for how to configure screen motion or how to control blinds and shades after the uSwitch device has been added to the room.

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

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