

Integrating an LG Projector with Mira Connect™

LG Projectors 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 LG Projector.

Mira Connect communicates and controls the LG Projector over infrared (requires a Global Caché IP2IR IP to infrared (IR) interface).



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

Integration Steps

To integrate an LG Projector with Mira Connect, follow these steps:

Step 1. 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.

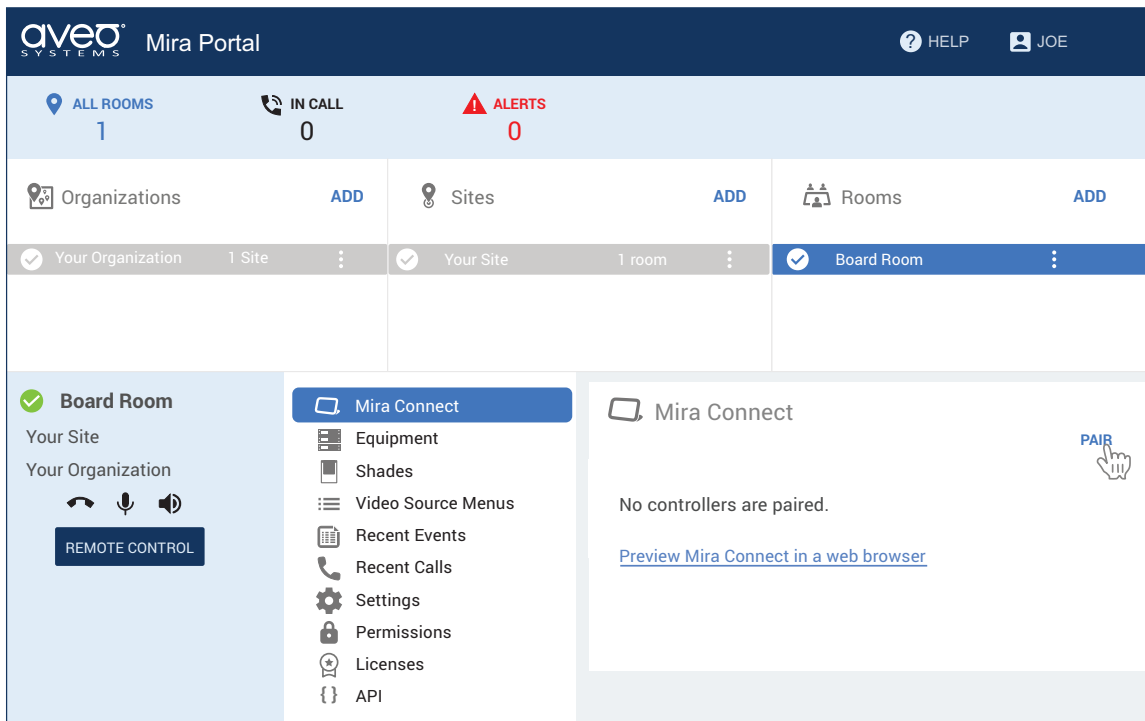


Figure 2: Create an organization, site, and room in Mira Portal and then pair the Mira Connect to the room.

Step 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.*

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.

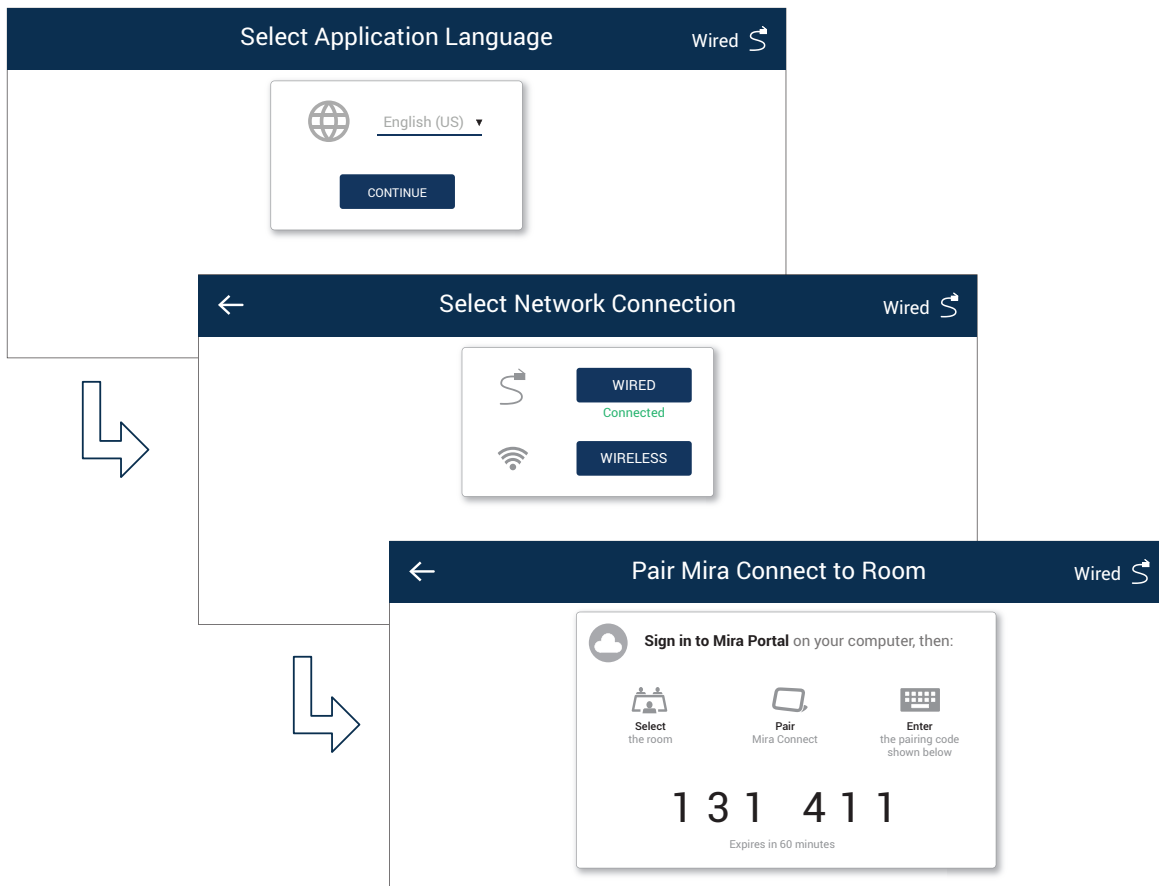


Figure 3: Select the language, select the network connection, and receive a pairing code.

Step 3. Add the LG Projector

To integrate an LG Projector with Mira Connect enter the IP address of the Global Caché IP2IR and the IR connector (1, 2, or 3) that is connected to the IR emitter used for this device. Do not add the Global Caché IP2IR device separately, just use its IP address as the IP address of the LG Projector.

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

Equipment Type *

LG Projector (IR) ▼

Model*

Universal ▼

Simulate equipment

✓ CONNECTION
✓ VIDEO INPUTS
✓ SCREEN MOTION
✓ OPTIONS

IP Address or Hostname *

IR Connector

1 ▼

i Questions about LG Projector (IR)?
[See the our step-by-step integration guide.](#)

CANCEL ADD EQUIPMENT

Figure 4: Enter the IP address and IR connector number of the Global Caché IP2IR.

There are three IR connectors on the Global Caché IP2IR labeled 1, 2, and 3. One Global Caché IP2IR can support up to three devices with infrared control.

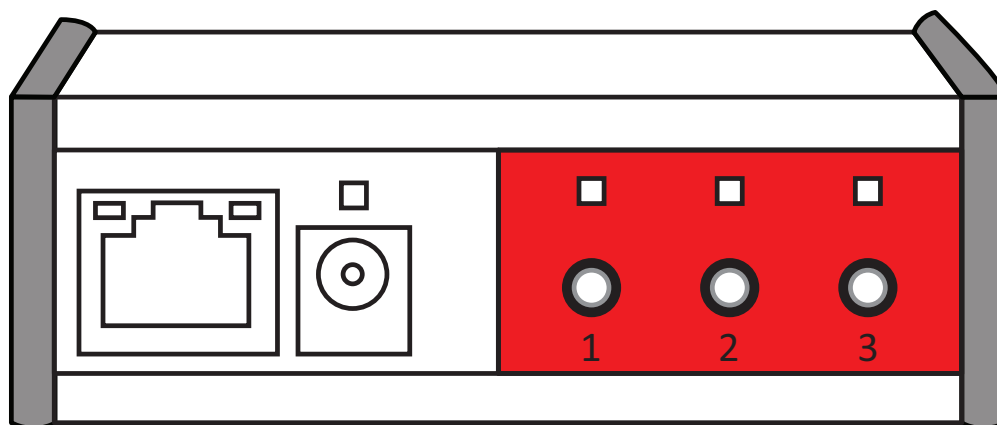


Figure 5: There are three IR connectors on each Global Caché IP2IR.

Mira Connect will connect to the device through the Global Caché IP2IR. If the IP address is correct, the equipment will show 'connected'. Otherwise a 'connection failed' message will appear. See the [Global Caché Integration Guide](#) for more information

on configuring the Global Caché IP2IR.

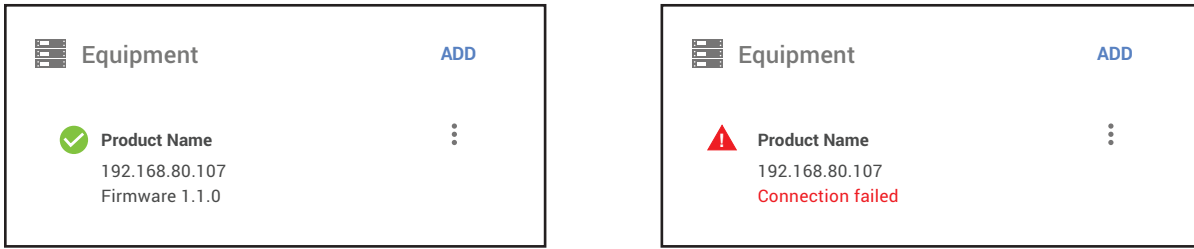


Figure 6: When Mira Connect can communicate with the device, a green check mark is visible, otherwise a red triangle indicates Mira Connect could not successfully communicate with the device.

Step 4. Configure the video inputs

To specify which video inputs are used on the LG Projector, select Edit from the device’s menu, select the Video Inputs tab and enable an input, select an icon, and enter text labels for the desired inputs. This will create a display menu as shown in the following figure.

An optional display name may be entered which is useful if you have multiple displays in a room.

A display card and menu will not appear on Mira Connect until you have enabled at least one input on the display.

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

Equipment Type *
LG Projector (IR) ▼
Model *
Universal ▼
 Simulate equipment

✓ CONNECTION
✓ VIDEO INPUTS
✓ SCREEN MOTION
✓ OPTIONS

Select inputs:

	Icon	Label	
<input checked="" type="checkbox"/> HDMI 1	▼	LOCAL LAPTOP	Description (Optional) Use the cable
<input checked="" type="checkbox"/> HDMI 2	▼	ROOM COMPUTER	Description (Optional)
<input type="checkbox"/> HDMI 3			

Display Name (Optional) _____

Menu Preview
This menu will appear on Mira Connect. The Display Name entered above will be used to label the display. Drag items to change order. The first item is the default selected input.

Select source:

LOCAL LAPTOP
Use the cable

ROOM COMPUTER

i Need help controlling LG Projector (IR)?
[See the step by step integration guide.](#)

CANCEL ADD EQUIPMENT

Figure 7: Enable the desired inputs on the LG Projector.

If connecting the output from a video switcher or cable TV tuner to an input on the LG Projector, click the link ‘Use Sources Connected to Other Equipment...’ and select where the source comes from.

Figure 8: To use a source from another device to an input, click the ‘Use Sources Connected to Other Equipment...’ link.

Control Interface

- When using the Global Caché IP2SL interface for serial control, see the [Global Caché Integration Guide](#) for how to configure the Global Caché IP2SL. Ensure the baud-rate on the Global Caché IP2SL (defaults to 19,200 bps) matches the baud-rate configured on the LG Projector.
- The default RS-232 settings for an LG Projectors are $\{baudRate\}$ baud, no parity, 8 data bits, one stop bit, and no flow control.
- Use a $\{serialCable\}$ RS-232 cable as shown in the following figure(s).
- Network connection with TCP, port 4998, using the Global Caché IP2IR interface for IR control.

Troubleshooting Infrared

If Mira Connect cannot connect to the LG Projector, ensure the IP address entered for the LG Projector is the correct IP address for the Global Caché IP2IR interface.

If Mira Connect shows a green connected state, but does not control the LG Projector, ensure the IR emitter is plugged into the connector (1, 2, or 3) of the Global Caché IP2IR that matches the connector value entered in the device’s Connections tab in Mira Portal.

Ensure the IR emitter is mounted securely over the IR receiver on the display.

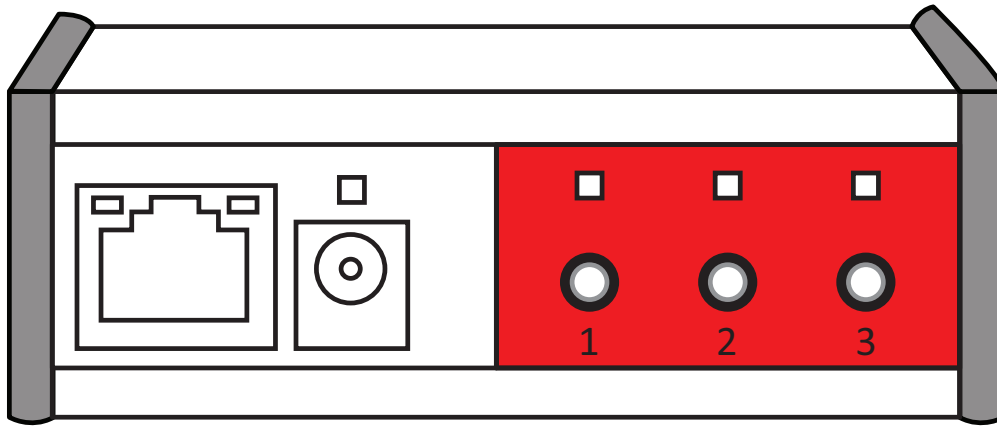


Figure 9: Ensure the IR connector (1, 2, or 3) connected to the LG Projector is the same as the IR connector specified in the 'Connection' tab in Mira Portal.

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

About Aveo Systems

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