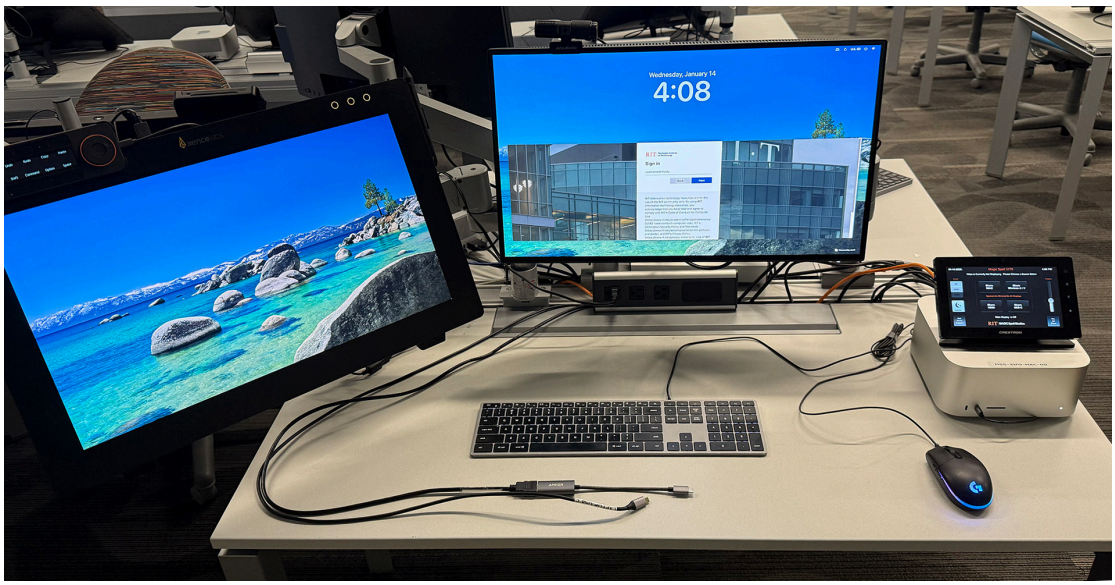
Projection in MSS-3170

Erich S. Lehman - 2026-01-19 - AV and Projection

UPDATED 1/15/2026



DO NOT REMOVE ANY OF THE CABLES FROM THE BACK OF THE TEACHER STATION, THE BENQ MONITOR, OR THE XENCELABS PEN DISPLAY24.

The AV wiring has been set up very specifically, and when users move/change the cables, it creates issues for the next user.

If something isn't working, please contact the CADTech Helpdesk immediately by ticket or by calling 585-475-7771.

Once powered on, the projector will not display a signal and the screen will remain black. until an input is selected. You will also have to log in to the computer you are using for the projection sync to initiate.

There can also be a 30-60 second delay while it initially syncs the signal (especially first usage of the day).

Using the Crestron AV switcher:

1. Tap **Start Sharing Content** on the Crestron to power up the projector and start the system.

- The projection screen will default to black (no projection) until an input is selected!

2. To select an input to share:

- Tap S**hare iMac** on the Crestron panel to share the Teacher Station

- Tap **Share HDMI** on the Crestron panel to share a laptop/etc connected to the HDMI cable with the laptop label*

- Tap **Share USB-C** on the Crestron panel to share a laptop/etc connected to the USB-C cable with the laptop label

* (an extra HDMI to USB-C adapter is also available for the HDMI cable)

3. See below for mirroring option explanations.

4. When finished, **log out** of the Teacher Station (or disconnect laptop) and tap the I**'m all Done** button on the bottom right of the Crestron touchpad to power down the projector.

DISPLAY MIRRORING OPTIONS

By default, the Pen Display, the BenQ monitor, and the Projector (listed as Crestron) will show up as your three independent display options. There are a number of configurations that can be set up, here's how to set them up. You WILL have to select each of the displays to confirm they are set up correctly. Refer to Figure 1 below when reviewing these settings.

Options that will show up under the Display Settings:

- **Main Display** – Will be the primary display with the dock displayed by default

- **Extended Display** – Will act as an extended secondary screen and will only show what you move over to it.

- **Mirror for Pen Display24** – Will duplicate whatever is on the **Xencelabs Pen Display24**

- **Mirror for BenQ PDF2506Q** – Will duplicate whatever is on the **BenQ PDF2506Q**

- **MIrror for Crestron** – Will duplicate whatever is on the **Projector** (as designated by the Crestron title)

SETUP 1: To have the Xencelabs Pen Display 24 be the Main Display:

1. Go to **Apple Menu / System Settings / Displays**

2. Select the **Pen Display24** and set to **Main Display**

3. Select the **BenQ PDF2506Q** and set to your desired option (extend or mirror)

4. Select the **Crestron** and set to your desired option (extend or mirror)

SETUP 2: To have the BenQ PDF2506Q be the Main Display:

1. Go to **Apple Menu / System Settings / Displays**

2. Select the **BenQ PDF2506Q** and set to **Main Display**

3. Select the **Pen Display24** and set to your desired option (extend or mirror)

4. Select the **Crestron** and set to your desired option (extend or mirror)

SETUP 3: To have the Crestron (projector) be the Main Display: *(not recommended)*

1. Go to **Apple Menu / System Settings / Displays**

2. Select the **Crestron** and set to **Main Display**

3. Select the **Pen Display24** and set to your desired option (extend or mirror)

4. Select the **BenQ PDF2506Q** and set to your desired option (extend or mirror)

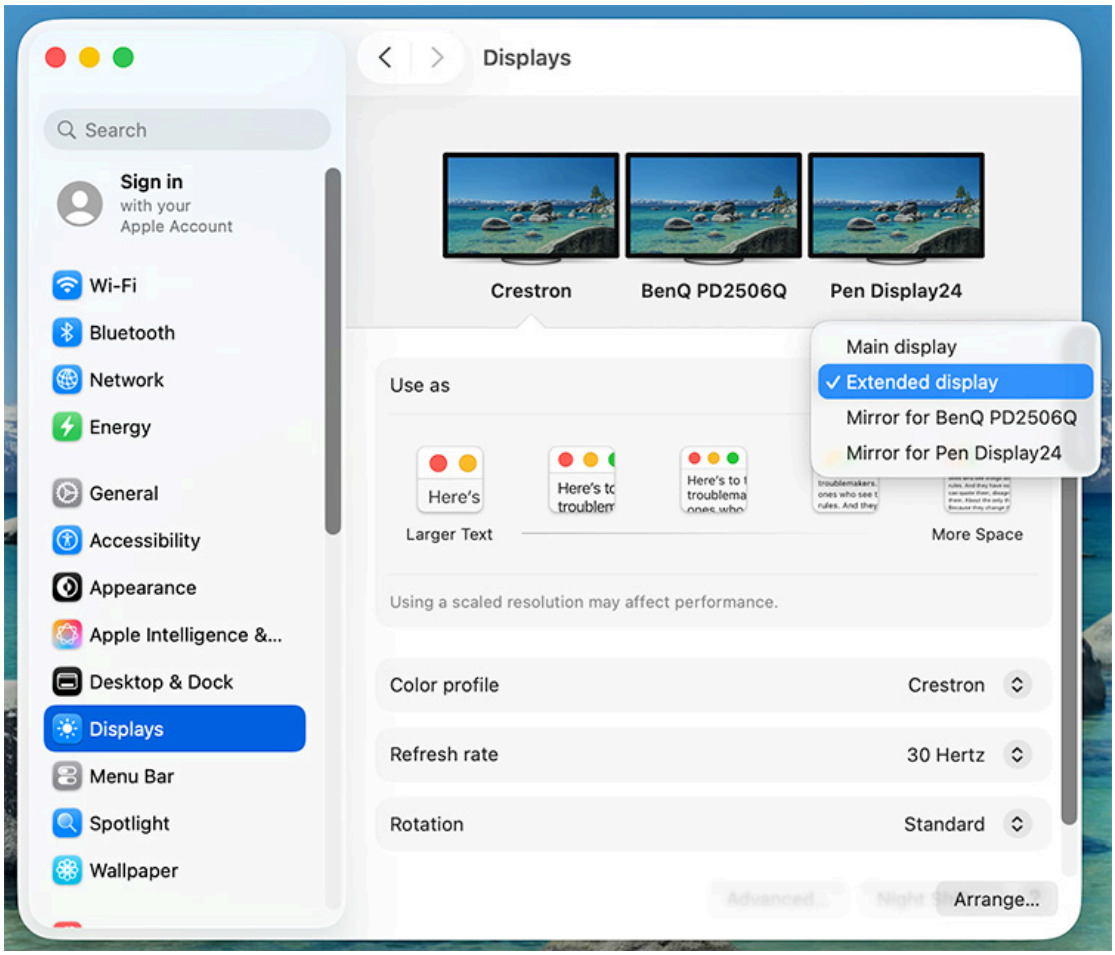


Figure 1: System Settings / Displays showing the options available to the Crestron output (options will vary based on Display Output selected, see notes above.

NOTES:

– Use one of the two extra cables on the teacher desk for the laptop. The hdmi cable comes with a USB-C adapter, or can be plugged directly into your HDMI port.

– DO NOT disconnect any cables from the Teacher Station!

– On occasion, some workstations not refresh the Azure login screen after a user logs out. If this happens, just reboot the teacher workstation from the button on the bottom of the login window.

Having Issues? File a ticket 24/7 at: helpesk.cad.rit.edu