To turn on the system, press any button on the Control Panel (other than the “System POWER” button).

When a button is blinking, the system is warming up.* When a button is solid, that source is ready to use.

*It may take up to three minutes for the system to warm up. Please be patient.

**CONTROL PANEL TIPS**

- Please remember to turn off the system when you are done using it.
  - Once the system is turned off, it will take approximately 3 minutes for the cool-down cycle to complete.
  - Since it is not possible to restart the system until this cycle is complete, use VIDEO MUTE if you plan to use the system again during your class period.
  - To ensure that the auto-shutdown feature does not interrupt your class, press any source button at the start of your class. The auto-shutdown feature shuts the system off after 4 hours without a system selection.

**TO SWITCH BETWEEN SOURCES:**
Press the Source button of the item you wish to display.

For additional assistance or to set up an equipment training session, please call the Classroom Support Hotline at 612-625-1086.

The University of Minnesota is an equal opportunity educator and employer. This publication is available in alternative formats upon request. Direct requests to ocmhelp@umn.edu. Printed on recycled and recyclable paper with at least 10 percent postconsumer material.
**Laptop Tips**

**IF YOU NEED TO ADJUST THE LAPTOP VOLUME:**
Increase the system volume by using the volume up/down buttons on the touch screen.

- If you cannot hear any audio, verify that the "Audio Mute" button on the system control panel is not on. **When this button is selected, the audio will not play.**
- You can also increase the volume by adjusting the volume on the laptop itself (using the laptop’s control panel). If that does not work, verify that the laptop’s mute button is not selected.

**IF THE IMAGE IS DISTORTED, OR YOU SEE AN ERROR MESSAGE THAT INDICATES "FREQUENCY OUT OF RANGE":** You may need to adjust the monitor resolution.

- **For PC Laptops:** From the Start Menu, open the Control Panel and double-click on the “Display” icon. Select the “Settings” tab, and adjust the screen resolution to **1024 by 768 pixels.**
- **For Mac Laptops:** Open “System Preferences” on your laptop. Click on “Displays,” and in the “VGA Display” window select “1024 x 768, 60.0 Hz” from the list.

---

**Connecting a Laptop**

✅ The standard cables are located in the pocket of the instructor station. You may need to flip up a cover to access the cables.

1. Connect the VGA or HDMI cable to the laptop before you turn on the laptop. Be sure to align the cable with the port and push it in straight, taking care to not bend the pins.

   - **Please note:** Some *Apple laptops* have a DVI (or mini-DVI) port, rather than the standard VGA port. **To use the system, you will need to use an adapter** to connect your computer to the laptop cable. If you do not have an adapter, you can purchase one at the U of M Bookstore.

2. Connect the thin audio cord into the **headphone** jack of your laptop (not the microphone jack).

3. Press the “VGA LAPTOP” or “HDMI LAPTOP” button on the control panel. When the button stops blinking, start the laptop.

   - **If the laptop image does not appear, activate the external display:**

   **For PC (Windows-based) Laptops:** To activate the external display, you must press and hold the Function key (labeled “Fn”); while holding down the “Fn” key, press the appropriate secondary key (as noted in the chart at right). The image should appear on the screen.

   **For Mac (Apple) Laptops:** To activate the external display, open “System Preferences” on your laptop. Click on “Displays,” then “Detect Displays.” The image should appear on the projection screen.

---

<table>
<thead>
<tr>
<th>Type of PC Laptop</th>
<th>Keys to Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acer or Aspire</td>
<td>Fn+F5</td>
</tr>
<tr>
<td>Asus eee mini</td>
<td>Fn+F8</td>
</tr>
<tr>
<td>Dell</td>
<td>Fn+F8</td>
</tr>
<tr>
<td>Gateway</td>
<td>Fn+F3</td>
</tr>
<tr>
<td>HP or Compaq</td>
<td>Fn+F4</td>
</tr>
<tr>
<td>HP Mini</td>
<td>Fn+F2</td>
</tr>
<tr>
<td>Lenovo (IBM)</td>
<td>Fn+F7</td>
</tr>
<tr>
<td>Sony Vaio</td>
<td>Fn+F7</td>
</tr>
<tr>
<td>Toshiba</td>
<td>Fn+F5</td>
</tr>
</tbody>
</table>
**Using the DVD and VHS Players**

1. Press either the “DVD Player” or “VHS Player” button on the main touch screen control panel (located on the instructor station). When the button stops blinking, the system is ready for use.

2. Insert your DVD, CD, or VHS tape. Press either the “DVD Player Controls” or “VHS Player Controls” button to access and use the transport controls (play, fast forward, stop, menu, etc.). Press “Closed Captioning” to turn on or off captions.

3. To return to the main menu, press Escape.

**Using Monitor Aspect Ratio Controls**

The aspect ratio controls offer several different options to display content on the classroom’s widescreen monitor. If you do not select any aspect ratio options:

- When displaying a computer screen, the monitor will attempt to match the computer display settings.

- When displaying a video,
  - VCR: the monitor will display standard 4:3;
  - DVD: monitor will attempt to match settings encoded on the DVD.

If the display is distorted, employing aspect ratio controls may help correct the distortion:

- Press the button marked “Aspect Ratio Controls” on the main touch screen (located on the instructor station).
- Choose a setting or the Auto Set Up.
- Press the Escape button to return to the main screen.
- More information is available in the Widescreen Aspect Ratio guide at: [http://www.classroom.umn.edu/support/AspectRatio.html](http://www.classroom.umn.edu/support/AspectRatio.html)

---

**Using the Auxiliary Video (for External Devices)**

To connect an external video playback device, you will need to provide the appropriate AV cable (with yellow, white, and red connectors). Connect the AV cables to the output jacks on the device and to the input jacks on the front of the VHS player.

- Use the channel up/down buttons on the front to set it to “Line Input.” The VHS player display should read "F-1" or "L-1." Select the “VHS Player” source.
**Using the Document Camera**

1. Press the “Document Camera” button on the main touch screen. When the button stops blinking, the system is ready for use.
2. Aim the camera directly at the item you wish to project.
3. Press the “Document Camera Controls” button (on the main touch screen) to access the standard document camera controls.
4. To return to the main touch screen menu, press “Escape.”

**Document Camera Tips**

- **Zoom**: Use “Wide” to reduce or “Tele” to enlarge the image size.
- **Focus**: Use the “Auto-Focus” button to automatically focus the image.
- **Iris**: Use to adjust the image brightness.
- You can also use the buttons on the document camera device to make image adjustments.

**Using the U of M Network**

**To connect to the wired network:**
Simply connect the Ethernet cord (in the pocket of the instructor station) to the Ethernet jack on your laptop.

*Please note: You will need to register and setup your computer for DHCP Service (Dynamic Host Configuration Protocol) prior to using the Ethernet connection.

**Wired Network Tips**

**Understanding DHCP:**

- Once registered and set up, DHCP allows you to automatically connect to the network on any campus classroom Ethernet jack.
- DHCP registration should be done in advance of the time you need to use the network, as the registration confirmation process may take several minutes.

DHCP registration can be done online at:
http://www.oit.umn.edu/network/setup-guides/

**To connect to the wireless network:**
Simply open a web browser (e.g., Internet Explorer, Firefox, Safari). You will be prompted to log in with your U of M Internet ID (X.500) and password.

**Wireless Network Tips**

**If the connection is slow or does not work properly:**
Verify that you are connected to the “UofM Wireless” connection.

- There may be other wireless network connections within range of the classroom. Connecting to a non-U of M network may cause the connection to be slow or not work properly.

**If you do not have a U of M Internet ID:**
Guests to campus may use the "UofM Guest" network for free.

For more information about obtaining guest access to the U of M network, please visit the following website:
http://www.oit.umn.edu/wireless/guest-access/index.htm

Data network service and support is provided by the Office of Information Technology. For further assistance with the wireless or wired network connection, please call the 1-HELP Technology Helpline at 612-301-4357.