TO TURN ON THE SYSTEM:

**PRESS ANY PRESENTATION SOURCE BUTTON ON THE TOUCH SCREEN.**

When a Source button is blinking, the system is warming up.*

When it stops blinking, that source is ready to use.

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

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**TO SWITCH BETWEEN SOURCES:**

Press the Presentation Source button of the item you wish to display.

When the button stops blinking, the source is ready to use.

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**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.
**Connecting a Laptop**

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

2. Connect the VGA 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 projection system, you will need to use a VGA 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. OCM does not provide adapters in classrooms.

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

4. Press the “LAPTOP” source button on the touch panel. The projector will take approximately 3 minutes to warm up.

5. When the “Laptop” source button stops blinking, start the laptop.

6. 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.

![DVI-to-VGA Adapter]

<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>

**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”:**

- **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.
**Using the DVD/VHS Combination Unit**

1. Press the button marked “DVD/VHS Combo” on the touch screen (located on the instructor station). When the “DVD/VHS Player” button stops blinking, the source is ready for use.

2. Insert your DVD, CD, or VHS tape.

3. Press the “DVD/VHS Controls” button (on the main touch screen) to access the standard controls (play, stop, scan, etc.).

4. From the “DVD/VHS Controls” screen, press the appropriate source button (“Select VHS” or “Select DVD”).

5. Use the Transport Controls on the touch screen to control the player. For additional DVD navigation options, use the DVD Navigation controls (on the right side of the touch screen). *Note:* If the DVD image is freezing or distorted, remove the disc, check for damage, and clean it to remove smudges or fingerprints.

6. To return to the main menu, press “Escape.”

**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/DVD combo 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 “DVD/VHS Player” source.

**Using the Hearing Assistance Equipment**

1. Remove a headset from the charging cradle located in the instructor station drawer.

2. Put on the headset. *Please note:* For best reception, put the headset in front of your face with the earphones on top and the company logo on the bottom, facing outward.

3. Adjust the volume to desired level using the volume knob.

4. Return the headset to the charging cradle when you are finished using it.

**Note:** Do not place or store any liquid or metal objects near the hearing assist charging cradle. This will cause possible interference, electrical shorting, or shock.

**Hearing Assistance Equipment Tips**

- Any sound that is coming through the classroom system (such as audio from the DVD/VHS player, laptop, and instructor microphone) should be audible on the headsets.

- If you experience interference or static, try moving to a different location. Also, be sure that you are facing the front of the auditorium.

**To Use Closed Captioning:**

To activate the closed captioning, press the “Closed Captioning” button at the bottom of the touch screen control panel. *Please note:* When playing a DVD, if the captions do not appear, you may need to activate the closed captioning on the DVD’s menu of options.

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If you experience problems with the hearing assistance equipment or have any other questions, please call the Classroom Support Hotline at 612-625-1086.
**Using the Document Camera**

1. If the camera head (containing the lens) and lamps are folded, you will first need to unfold these items using the camera’s release catch, located at the base of the arm. **While holding the catch open, unfold the camera head and lamps.**

2. The arm should move freely once the catch has been released. Be sure that the top of the camera head is aimed directly down.

3. Press the “Document Camera” button on the touch screen. When the button stops blinking, the source is ready for use.

4. Press the “Document Camera Controls” button (on the main touch screen) to access the standard document camera controls.

5. Place the object you wish to display on the document camera.

6. 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. Use the “Auto Iris” button to automatically adjust the brightness.
- **Detail:** Use to control image sharpness. Text usually benefits from a detail setting of “High.” Pictures/images may appear distorted when using the “High” setting.
- **Auto-White Balance:** Place a white piece of paper in the viewing area and press the “Auto-White Balance” button. Colors will adjust based on the color of the white paper.

**Using the Wireless Rechargeable Microphone**

1. Remove the mic from the charging base and clip the microphone mouthpiece to your shirt, about 3 inches directly below your chin.

2. Unmute the microphone by pressing the side button. **The microphone is ready to use when the top light is green.**

**Wireless Rechargeable Microphone Tips**

**If the microphone is not working:**

- First try using the second microphone.
- If the microphone is not charged, (indicated by a blinking yellow/green light) return it to the charging base and use the second microphone.
- If the second microphone is not available, please call the Classroom Support Hotline at 612-625-1086 for assistance.
- Please note: the rechargeable microphones do not have volume adjustment.

**Microphone Indicators and Alerts:**

- If the microphone leaves the immediate vicinity of the classroom, the unit will turn off and emit an alarm beep to alert you to return the microphone to its charging base.
- The LED indicator light on the top of the microphone will indicate its status:
  - If it is **blinking red,** press the side button to unmute it.
  - If it is **green,** the microphone is charged and on.
  - If it is **blinking yellow/green,** the battery is low.
  - If it is **solid red,** the microphone is usable but not fully charged.
  - If it is **blinking with any other combination of colors,** there is a problem with the microphone.
**Using the U of M Network**

**To Connect to the Wired Network:**
Simply connect the Ethernet cord (near the instructor station) to the Ethernet jack on your laptop.*

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**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

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**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/

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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.

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

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For additional assistance, call or email the Classroom Support Hotline:
612-625-1086 or ocmhelp@umn.edu