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Introduction

The following is a guide designed to assist you with operating the audiovisual equipment available at New England Law | Boston. Even though the logic and concepts are similar throughout all of our rooms we felt there was enough difference in the orientation and specific equipment found in classrooms to warrant developing a guide for each one. This guide offers both an overview of the specific components available in the room (and their locations) as well as comprehensive step-by-step guides to cover common AV functions used in classrooms.

If there is an additional scenario you have used that is not included in this guide or if you have any suggestions for modifications please let us know at tms@nesl.edu, we are always appreciative of your input.

Section 1 - Room Equipment List

Room 502 contains the following audiovisual equipment

1) Desktop Computer  
2) Keyboard and Mouse on AV Rack  
3) Wireless Keyboard and Mouse on Podium  
4) Computer VGA monitor  
5) Room Control Panel (wall-mounted)  
6) Ceiling-mounted Projector  
7) Pull-down Projector Screen  
8) Laptop Video & Audio Cable  
9) USB Input Cable  
10) Power Outlets (wall-mounted)  
11) Network Port (wall mounted)  
12) Ceiling-button Microphone  
13) Ceiling-mounted Speakers  
14) DVD Player  
15) VHS Video Player  
16) Wall-mounted Camera
Section 2 - Room Equipment Location and Description

Image - View from front the Lectern
2.1) Desktop Computer, Monitor, Keyboard and Mouse

The PC in the room (located at the bottom shelf of the AV Rack below the keyboard, see image above) has Windows 7 installed and comes equipped with applications typically used as part of lectures. These include common document reading applications (Microsoft Office 2010, WordPerfect and Adobe Reader.), common web browsers (Internet Explorer, Firefox, Google Chrome), various media-related applications (Windows Media Player, VLC media player, RealPlayer, iTunes) and a SMART Board Suite.
The computer can access both the school’s local network and the Internet. Class presentation material can either be accessed via a local network folder (e.g. the Faculty share), an Internet cloud service (e.g. TWEN) or a drive plugged into the machine’s **USB port** accessible on the front of the unit (see highlighted green rectangle in image above). The computer can display anything that is showing on it’s monitor on the room projector system so is typically the main mechanism for showing slide presentations, Internet resource references etc. *See step-by-step guide ‘Playing a DVD in the classroom’ for more details.*

There is additional set of logitech wireless keyboard and mouse placing on the room podium for your convenience. Make sure both wireless keyboard and mouse have the ON/OFF switch at ON position (Green) prior to use.

**2.2) Room Control Panel**

*For location see 'View from front of AV Rack’s image on page 3*

To simplify accessing and controlling the equipment in the room a lot of the common functions (listed below) have been programmed on the wall-
mounted pushbutton panel. The step-by-step guides section covers some examples of workflows using this unit.

**Available functions:**

- Power on and off room equipment
- Selecting the source to display on the projector
- Volume controls for equipment (EG DVD player)
2.3) Projector

![Image - Projector and Screen Location](image)

Room 502 is equipped with a single ceiling mounted projector that is pre-wired for all the relevant equipment in the room (Lectern Desktop Computer, DVD\VHS Player, and Laptop Input). It is also specifically oriented to best utilize the space and angle of the room’s projector screen.

2.4) Pull-down projector screen

A ceiling mounted projector screen is permanently mounted in the room (for location see ‘Projector and Screen Location’ image in point 4 above).

It’s important to ensure that the screen is fully pulled down in order to display the entire image being sent from the projector. Below is an image of the screen in the correct unfolded position, the black border should be fully viewable around the perimeter of the screen.
2.5) Laptop Input Cables

The Laptop Input cables is located behind the AV Rack. It is a black cable VGA type. Because of the limitation in space, Room 502 using the direct VGA port on wall-mounted AV plate to transport laptop signal to projector.
A) Laptop Video Cable
Connect this to the VGA out port found on most laptops to share your devices display with the class via the projector.
**Note:** the connector type is a 15 pin standard display type, your laptop may need an adapter to connect its output to this standard. MacBooks for example typically have a technology called ‘DisplayPort’ which needs a a converted in order to plug into this input. If in doubt reach out to the TMS group (see ‘Support hours, procedures and contact information’ section at the end of this guide) and we can offer assistance.

**B) Laptop Audio Cable**

This 1\(8^{th}\) inch connector should be plugged into the headphones jack on your laptop in order to share your devices audio with the class via the in room sound system. (Note, anything device with a standard headphone jack, e.g. an iPod or iPhone, can use this cable to play audio through the room’s sound system)

**Image - Laptop Input Cables (closer look)**

2.6) **USB Input Cable (Male)**

Connect this to any compatible equipment you have with a USB input (e.g. a portable drive) to gain access to it via the Desktop Computer

2.7) **Power Outlets (wall-mounted)**
There are two places for you to plug in any equipment you may be bringing into the room (e.g., laptop, phone charger, tablet charger, etc.). The most convenient place for you is floor box, there are two electrical outlets in there.
If you need additional power or if you experience any problem with the floor box outlets, there are also two outlets located on the wall just behind the AV Rack (when facing it) – see image – power outlet locations on page 10.

2.8) Network Port (wall mounted)

This is located on a plate behind the AV Rack – see image on page 10.

Even though the Stuart Street building is equipped with a wireless network, there may be situations where you want to plug your laptop into the wired network and this offers the means to do that.

2.9) Ceiling-mounted Microphones and Speakers

![Image](image.jpg)

Image – Room Microphone Locations

Room 502 is equipped with one microphone mounted to the ceiling invisible near the AV Rack. This Microphone can be used for sending a lecturer’s voice
to an additional room (termed 'overflow') or for capturing the lecturer's voice when a class is being recorded. Overflow and recordings are available services where circumstances warrant it by making a request to TMS, see the 'Support hours, procedures and contact information' section at the end of this guide).

Please note that as this microphone is the source for capturing the presenter's voice for class recordings it's important to be cognitive of your physical position when teaching a class being recorded, deviating too far from the location of this microphone will result in fluctuating volume quality.

The speakers are mounted into the ceiling and located at designated positions around the classroom. As well as projecting the sound picked up from ceiling microphone in the room these are also the source for presenting sound from the Lectern Desktop Computer, anything plugged into the Lectern Laptop Audio Input Cable, a DVD or VHS video being played in the room and any signal from another classroom set to overflow into 502.

**Volume controls** for room 502’s speakers can be accessed via buttons that appear on the right of the wall-mounted pushbutton panel. Adjusting audio volume and other parameters is enabled using the continuous-turn control knob and LED bargraph. This will control the level of whatever audio you happen to be running through the speakers at the time, e.g. a DVD or sounds from the computer.
2.10) DVD Player\VHS video Player

A dedicated DVD and VHS player is available for displaying disks\tapes. The Lectern Desktop Computer can also play DVDs that can be sent to the
projector in the room in the event problems are experienced when using the dedicated player.

2.11) Wall-mounted Camera

A video camera is permanently fixed to the wall at the back of the classroom. This is the means by which TMS can record classes when applicable. Unless a class has been specifically requested as recorded (students are not allowed to make such a request, only the presenting professor or in some instances the administration on behalf of the professor) this camera is not used.

Image – Room Camera Locations
Section 3 - Step-by-Step Guides

Note: All of the step-by-step guides assume the equipment is off when you walk into the room. It’s conceivable that a previous lecturer left the computer or projector on when leaving their class. Even if this is the case follow the steps as they appear below, some items such as the descriptions of the equipment warming up will be irrelevant.

3.1) Displaying a PowerPoint Presentation on the Projector (using the Lectern Computer)

1) Start by locating the projector screen and fully expanding it (see Projector Screen Correctly Expanded image on page 8).

2) Locate the wall-mounted pushbutton panel on the wall near AV Rack (see ‘View from front of AV Racks’ image on page 3) and its “PC” button.

3) Press on the “PC” button, the “PC” button light indicator starts blinking for a few seconds and then stays solid with the red light on. At the same time you should hear the projector fan start to spin as the unit warms up. After about 30 seconds a logo image for the projector model will begin to

...
appear on the pulled down screen, this is normal during the equipment’s boot process. This will then change to a blue screen as the projector connects to the Lectern Computer input and should end with the computer login screen appearing. The Lectern computer’s monitor should also begin to display the login page, use either wire or wireless keyboard & mouse *(see Computer Equipment Location image on page 3 for its location)*, and log in.

**Note 1:** If the computer VGA monitor doesn’t show a display even though the projector screen is displaying the login screen make sure it is switched on, its power button is located on the bottom right hand side of the screen.

**Note 2:** If you find that the computer starts up but instead of a login screen you see desktop icons it means the last user did not log out of the PC. We would advise that in this situation you log off the computer and log on again with preferred credentials.

4) Locate and launch your PowerPoint presentation *(see section below ‘Locating Your Files’ for working with various file storage scenarios)*

5) When the presentation is over you have two options.

a) **Leave the Equipment Running**
   
   If you think there is another lecture following your own class it is advisable to leave the equipment on. This will save the incoming presenter from having to go through the complete startup process. In this instance just close whatever application you were using for the presentation (presumably PowerPoint), if you were running the file from a copy stored on the local Desktop PC delete it, and just log off the computer.

b) **Shut Down the Equipment**
   
   If you want to do a complete shutdown of the system this is quit easy to do. Close whatever application you were using for the presentation (presumably PowerPoint), if you were running the file from a copy stored on the local Desktop PC delete it, and just log off the computer. Then on the pushbutton control panel just press “System Off”. That’s it!

   The computer VGA may stay on, you can leave it alone as the computer’s power saving settings will take care of that subsequent to the other equipment.
Locating Your Files

**Network Drive**
If you have the presentation saved on a network share, double-click the ‘Computer’ icon located on the top left of the desktop. A list of all the connected drives should appear. If logged on as the ‘Lectern’ user the L drive should default to the Lectern share. If logged on as your own username the Lectern share will most likely not appear, in that instance you will have access to your U: drive or any department shared folders (e.g. Fac_Shared).

**Cloud Drive**
If you have your file stored on the Internet, e.g. TWEN site, just open any of the web browsers on the PC, point to the relevant web address and log in to it. It would be suggested to copy the file down to the local desktop for the duration of the lecture, this will ensure that even if system wide internet issues occur while you are teaching the class you should remain unaffected. Ensure to delete the file from the local storage when the class is completed.

**USB Drive**
If you are bringing some form of storage drive with you (e.g. a Thumb Drive) then plug it in to one of the USB ports on the front of the lectern computer (these are highlighted in the Computer Equipment Location image located on page 4). Or, you can use the following available ports on Desktop Monitor or USB cable on AV Rack.
*Note: Sometimes certain USB drives don’t get the power they need from a specific USB port, if your drive doesn’t get recognized remove it and plug it in to one of the other available ports.

If the drive gets recognized the following message may appear (if not skip down to the ‘If no popup appears when you plug in the USB drive.’ Section below)

Click ‘Continue without scanning’. You should then be presented with the following window:
Select 'Open folder to view files'. Locate your file, either drag it onto the desktop to run it locally (remember to delete it after the lecture) or launch it straight from the USB drive.

If no popup appears when you plug in the USB drive.

Locate the ‘Computer’ icon on top left of the desktop and double-click it. From the window that appears, under the ‘Devices with Removable Storage’ section locate your drive (it typically will show up as the ‘E’ drive in room 502 and should have the following icon).

Double-click it to locate your files stored on it.

3.2) Using a laptop to show class material on the projector
Note: If you are planning on accessing the Internet as part of your presentation ensure the laptop is connected to the school’s WiFi or plugged in to one of the available room network ports prior to class beginning. If you need any assistance setting this up please reach out to the helpdesk see ‘Support hours, procedures and contact information’ section at the end of this guide. Laptop input and desktop input are sharing the same output source. Once you connect your laptop via VGA cable, both audio and video of laptop will take over the output of desktop lectern PC. **Disconnect the Laptop if you plan to use desktop lectern PC.**

1) Start by locating the projector screen and fully expanding it (see *Projector Screen Correctly Expanded* image on page 7).

2) Plug your laptop’s ‘display out’ connector into the cable highlighted on the *Laptop Input Cables* image that appears on page 9. *(Note that this could also be a tablet or any other device you have but in most cases you will need an adapter to translate its video out connector into the standard VGA type found on the cable.)*

   If you plan to also use some audio on your device as classroom material plug the 1\8\ th inch audio cable, *which is also highlighted in the Laptop Input Cables image*, into the headphone jack on your laptop\ device.

3) Locate the wall-mounted pushbutton panel on the wall near AV Rack (see ‘View from front of AV Racks’ image on page 3) and its “LAPTOP” button.
4) Press on the “LAPTOP” button, the “LAPTOP” button light indicator starts blinking (red) for a few seconds and then stays solid with the red light on. At the same time, you should hear the projector fan start to spin as the unit warms up. After about 30 seconds a logo image for the projector model will begin to appear on the pulled down screen, this is normal during the equipment’s boot process. This will then change to a blue screen as the projector connects to the Laptop input and should end with your laptop\device’s display appearing on the projector screen.

5) When the presentation is over you have two options.

   a) Leave the Room Equipment Running
   If you think there is another lecture following your own class it is advisable to leave the equipment on. This will save the incoming presenter from having to go through the complete startup process. In this instance just unplug your laptop or device from the VGA input cable and take it with you.

   b) Shut Down the Equipment
   If you want to do a complete shutdown of the system this is quite easy to do. Close whatever application you were using for the presentation (presumably PowerPoint), if you were running the file from a copy stored on the local Desktop PC delete it, and just log off the computer. Then on the pushbutton control panel just press “System Off”. That’s it! The projector and room audio will power down. Unplug your laptop or device from the VGA input cable and take it with you.

3.3) Playing a DVD on the projector

   The following steps assume you are using the dedicated DVD player in the room. It’s also possible to place a disk in the Desktop Computer’s drive and use any of the available media playing applications installed on it (VLC Player tends to work best). Some presenters prefer that method as jumping to certain points in the video are easier on a computer. To run a DVD that way just refer to the instructions from step-by-step guide 3.1 (Displaying a PowerPoint Presentation on the Projector), the steps for using the computer as a DVD player are very similar except instead of opening a presentation you will insert a DVD disk into the computer and the video should auto-launch.

   1. Start by locating the projector screen and fully expanding it (see Projector Screen Correctly Expanded image on page 8).

   2. Locate the dedicated DVD player on AV Rack (refer to the DVD\VHS Player image on page 13). Press the eject button (the button to the right of the DVD
tray that is marked with a symbol of a triangle above a rectangle). The tray will open, place your DVD disk on it and then press the eject button. The disk will begin loading.

3. Locate the wall-mounted pushbutton panel on the wall near AV Rack (see ‘View from front of AV Racks’ image on page 3) and its “DVD” button.

4. Press the DVD button.

5. The “DVD” button light indicator starts blinking (red) for a few seconds and then stays solid with the red light on. At the same time, you should hear the projector fan start to spin as the unit warms up. After about 30 seconds a logo image for the projector model will begin to appear on the pulled down screen, this is normal during the equipment’s boot process. This will then change to a blue screen as the projector connects to the DVD player's input.

6. At this point, use the DVD control buttons on the DVD itself to play your DVD or rewind, fast forward, or pause.

7. When completed, repeat the process from step 2) above to remove the disk from the DVD player.

   **a) Leave the Room Equipment Running**

   If you think there is another lecture following your own class it is advisable to leave the equipment on. This will save the incoming presenter from having to go through the complete startup process.
b) Shut Down the Equipment  
c) If you want to do a complete shutdown of the system this is quite easy to do. Close whatever application you were using for the presentation (presumably PowerPoint), if you were running the file from a copy stored on the local Desktop PC delete it, and just log off the computer. Then on the pushbutton control panel just press “System Off”. That’s it! The projector and room audio will power down. Unplug your laptop or device from the VGA input cable and take it with you.

NOTE: Repeat from step 1 to 7 for VHS, just press “VCR” button on the pushbutton control panel at step 4.

3.4) Having a class recorded

This is a service available on request. Only review classes and make-up classes don’t require approval from the faculty Dean. No matter what the nature of the class being recorded is though the procedure is the same and involves you making a request online, below are some guidelines.

1) Go to the TMS home page (http://tms.nesl.edu), under ‘Faculty Center’ on the left of the home page click ‘Audio Visual Requests’ for the necessary form. This must be submitted within the minimum notice period for such requests (see the ‘Support hours, procedures and contact information’ section at the end of this guide for specifics)

2) Fill out the request form. Select ‘My class/event needs to be recorded’ on the form and make sure to specify in the appropriate section what type of media you want the class captured on

Online Streaming Video – The class will be available to view as a streaming video watched via a web browser

DVD – The class will be recorded directly to a DVD disk that can be made available in the library to be checked out for viewing or just given to a presenter to distribute as he/she sees fit.

Both – The class will be captured to both DVD disk and made available for viewing online.

Once the request is completed and has been submitted you will receive a confirmation Email.
3) The video that will be recorded for the presentation will be captured via the in room camera mounted on the wall at the back of the class.

   NOTE: If you need to position the camera to an optimum angle to the way you want to present the class, please reach out to TMS staffs prior your class begins to discuss your reference. TMS Staffs will make adjustments from Control Office (HeadEnd).

4) The audio that will be recorded for the presentation will be captured via the microphones in the room. For room 502 these are located in the ceiling (see section 9 of the Room Equipment Location and Description section at the start of this guide for more detail). Where you may not need to normally focus on your position and movement while teaching a class, when a recording is in progress best practice would be to stand behind the lectern so that the audio volume remains at a consistent level.

5) All recording equipment and work happens outside the room so there is nothing for you to do beyond that point. A helpdesk member will reach out to you when the recording has been prepared on the selected media (can take up to 24 hours to complete) with the necessary link or DVD disk.
Support Contact Information, Hours and Policies

Technology and Media Services Contact Information

**Telephone:**
From a phone on the school system: **7404**

Note: on the third floor of Stuart Street there is a phone handset located on the wall between room 302 (student lounge) and room 303, you just need to dial 7404 on this for helpdesk assistance.

From a phone not on the school system (e.g. your mobile): **617-422-7404**

**Email:** – [tms@nesl.edu](mailto:tms@nesl.edu)

**Web Site:** [http://tms.nesl.edu](http://tms.nesl.edu)

Technology and Media Services Hours of Operation

The TMS will now be open as follows:

- **During the academic year**
  - 9 a.m. to 9 p.m. Monday through Thursday
  - 9 a.m. to 5 p.m. on Friday
  - Staff can be made available for audiovisual requests on Friday evening, Saturday, Sunday, and holidays*
  - Remote support during winter break

- **During the summer**
  - 9 a.m. to 7 p.m. Monday through Thursday
  - 9 a.m. to 4:30 a.m. on Friday
  - Staff can be made available for audiovisual requests on Friday evening, Saturday, and Sunday*

* Staff will only be on site if a specific audiovisual request that needs assistance (e.g. class recording) is submitted within the minimum required notice period (see below).
To facilitate scheduling the necessary TMS staff resources to facilitate audiovisual requests, while still maintaining a service level for all of the other responsibilities that’s required from the helpdesk, the following minimum notice periods are in effect.

<table>
<thead>
<tr>
<th>Day</th>
<th>Minimum required notice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday through Thursday, 9 a.m. to 9 p.m.</td>
<td>24 hours</td>
</tr>
<tr>
<td>Friday 9 a.m. to 5 p.m.</td>
<td>24 hours</td>
</tr>
<tr>
<td>Friday 5 p.m. to 9 p.m.</td>
<td>By 5 p.m. on the preceding Wednesday</td>
</tr>
<tr>
<td>Weekends</td>
<td>By 5 p.m. on the preceding Monday</td>
</tr>
<tr>
<td>Holidays</td>
<td>By 5 p.m. on the preceding Thursday</td>
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</table>