Room 337
Technology Documentation
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Introduction
The Room 337 Sandbox smart podium was designed to be the prototype smart podium for the new building. It contains several new technologies not found in the School of Law’s current smart podium setup such as connections for Mac and HDMI displays, as well as annotation technology, Crestron Air Media wireless content streaming technology, and Polycom video conference technology.

The Polycom Videoconference system cameras, located in the back of the room auto pan, zoom and focus when someone is talking. In the new building classrooms, one camera will be situated in the front and one situated in the back. These cameras are also connected to the Panopto Lecture Capture System. The Polycom videoconference microphones are tied into the PC system sound for lecture capture recordings as well.

The various inputs are displayed on a Sharp Aquos 80 inch flat screen monitor. The sound for the system in Room 337 will come through the flat screen monitor speakers. In the new building, there will be ceiling speakers for the sound system.

The Smart Podium
The podium consists of a monitor, with annotation capabilities, microphone (currently not working), touch panel, cable inputs for HDMI, Display port, VGA and audio jack for various laptops and tablets, an Ethernet cable for laptop Internet access, a built in computer, a document camera on the left hand side, a videoconference system, and a Crestron Air Media device for wireless laptop and tablet display.

The podium also has an automatic hydraulic lift system that you can move the podium up and down. The buttons for up and down are located on the lower right side of the podium.
Computer
The computer should be logged in to the USCLAW account. If the computer is not logged in, select the USCLAW account and the password is computer.

Laptop Connections
There are five laptop connections – VGA for older Windows based laptops, Display port for Mac OSX laptops, HDMI for newer Windows based laptops as well as for iPad and Droid tablet displays (with adapter converter), an Ethernet connection cable and a mini-jack audio cable.

Touch Panel
To start the system, simply press anywhere on the touch panel.

The document camera and flat screen monitor will turn on automatically. It will display the screen below. It will give options for PC, Laptop, Document Camera, Videoconference, AirMedia and DVD.

It will also give the Blank Image toggle button, which allows the user to blank the image as users can do currently in the law school smart podium setups. There is also the Whiteboard toggle button, which allows you to turn the annotation monitor into a whiteboard. Similar to the Blank Image button, it is a toggle switch. Press the button to turn the whiteboard feature on and press the button to turn it off.
Pointmaker Annotation System

The Boeckeler Pointmaker annotation system is the latest version of the annotation system used by the NAC. It allows for annotating various inputs such as PC, laptop, Crestron AirMedia, DVD, and Videoconference.

The system is already in annotation mode. Simply use your finger or the stylus to draw on the monitor. To activate other functions on the annotation monitor, simply press the MENU button on the bottom of the monitor screen.

There are several functions in the annotations system. CLEAR clears all the annotations off the screen. UNDO undoes the previous annotation. There is a color palette button that allows you to change the color of the annotation. The HLITE button turns the annotation marker to a highlight marker, allowing for thicker transparent highlighting of screen text. PTR allows for the user to create pointer arrows simply by tapping the screen. It is off by default. Other functions such as PRINT and SAVE are currently not setup. To exit the menu, simply press the MENU button at the end of the menu.
iPad Pointmaker App and App Settings

There is an iPad app for the Pointmaker annotation system that allows you to use and control the annotation system through your iPad.

1. Download “PVI Control” from Apple App Store.
2. Run app.
3. To setup the app to work with the Room 337 Pointmaker, click on the remote control button on bottom of the screen. It will open up a “Connect with Pointmaker” dialog box.
   a. Name – Law337
   b. Password – 1801
   c. IP Address of Pointmaker - 129.252.145.48

4. Once you connect, the remote control icon will no longer be crossed out and it will give you a notes screen with a menu bar at the bottom of the screen.

5. To show the screen input of the podium, press on the Share icon on the menu bar, then press Get from Pointmaker.

6. In this case, you now have access to the PC desktop screen. You can annotate here and you can also save any annotations to the desktop by clicking on the download/save icon next to the
share icon and then press **Save**.

![Image of a tablet with annotation tools]

**g.** By pressing the pencil icon, you can also change the pencil icon to a highlighter, eraser, text etc.

**h.** To undo an annotation, press on the green undo icon. To clear the entire screen, press the Delete trash icon.

![Image of a tablet with different annotation tools]

**i.** You can also present photos and documents from your iPad on the annotation system by pressing the photo icon or the documents icon. You will also need to click on the share button and click **Send to Pointmaker**.
Document Camera
To select the Document Camera, simply press the document camera button on the control panel. The document camera automatically focuses on zoom. To use the zoom, press the zoom wheel button at the top of the document camera. To zoom in, press the wheel down. To zoom out, press the wheel up.

There is also a software application that allows the document camera to be accessible on the computer for lecture capture recordings. We will set that up shortly and update this documentation with that feature.

Polycom Videoconference System
The Room 337 Sandbox podium has a Polycom HDX 7000 video conference system. There are two Polycom video cameras in the back that pan and zoom automatically on a person talking in the room. There are two microphones in the room as well for videoconference and lecture capture recording purposes as well.

To access the video conference system, simply press the Videoconference button on the Crestron touch panel. Here you can dial a videoconference IP address as well as access the Videoconference address book for saved IP addresses/video conference systems.

However, a virtual meeting conference room has already been setup for the system. This is how outside users can easily connect with the Room 337 video conference system. This should be the default way to access the system.

To access the Virtual Meeting Room, press the Virtual Meeting Room button. You can have users connect to the system simply with a webcam and microphone via the Cloudaxis web browser site. The address is http://callme.sc.edu/337. The users should login as “Guest”, which will then ask for their email address and name. The site will install a plugin that will recognize their webcam and microphone.
You can share content by clicking on the **Content** button and then select whatever input such as PC, Laptop, Document Camera, DVD or AirMedia; you want to share with the user by pressing on that input toggle button. The flat screen monitor will show the camera view in picture and picture format while presenting the main content on the screen.

To return the videoconference to simply the full screen camera mode, press the input toggle button again. To finish the videoconference, simply press on **End Call**.

**Crestron Video Conference Information**

This is information to give out to outside users who want to connect to the Room 337 Video Conference System using similar professional video conference systems.

**Codec Info:**

**Internal Dial Strings:**
- H323 ID: 8032111001
- SIP URI: [LAW337@gk.sc.edu](mailto:LAW337@gk.sc.edu)
- IP Add: 129.252.145.32

**External Dial Strings:**
- Polycom - 129.252.108.196## 8032111001
- Cisco/Tandberg - [8032111001@129.252.108.196](mailto:8032111001@129.252.108.196)
- SIP URI: [LAW337@gk.sc.edu](mailto:LAW337@gk.sc.edu)
Virtual Meeting Room:

Internal Dial Strings:

- H323 ID: 337
- SIP URI: 337@gk.sc.edu

External Dial Strings:

- Polycom - 129.252.108.196##337
- Cisco/Tandberg - 337@129.252.108.196

Crestron Air Media

The Crestron AirMedia allows user to display content and play audio wirelessly from iPads, Android tablets, Windows and Mac laptops either using an AirMedia app or through their web browser.

Press AirMedia on the touch panel. Then using the iPad/Windows/Mac OS X app or the web browser, connect to the IP address 129.252.145.56. You will also need to enter the session access code, which will be new for each session. Once you connect, you can press play to display your content.

You can download the AirMedia Windows and Mac OS X apps from Crestron’s website below. For Windows users, make sure to save the AirMedia Windows app to the desktop. For the Mac OS X app, we recommend copying the AirMedia app once installed to the dock.


Windows/Mac/iPad App

For the windows app, copy the downloaded .exe file to the desktop and run it. It will note that it cannot find an AirMedia connection. It will then give you a dialog box. Type in the IP address 129.252.145.56 and then type in the session access code. It will then allow you to play your content. You can play it full screen or by pressing the menu button, you can select quad view and then choose one of four views Upper Left, Lower Left, Upper Right, Lower Right. You can not only display content but also stream audio as well from your windows laptop.

For the Mac app, run the downloaded .dmg file and copy the AirMedia app to your desktop or dock, then run it. It will note that it cannot find an AirMedia connection. It will then give you a dialog box. Type in the IP address 129.252.145.56 and then type in the session access code. It will then allow you to play your content. You can play it full screen or by pressing the menu button, you can select quad view and then choose one of four views
Upper Left, Lower Left, Upper Right, Lower Right. You can also stream audio, but you will need to install SoundFlower, which you can get from [https://code.google.com/p/soundflower/](https://code.google.com/p/soundflower/). The download file link is listed on the left hand side of the screen.

The iPad app is limited to showing photos (in single view, or slideshow), documents or Crestron’s AirMedia Web browser. In the iPad AirMedia app, you can also select full screen or quad view, which can show up to four laptop/tablet views at once using Upper Left, Lower Left, Upper Right, Lower Right.

DVD

The Sandbox podium has a DVD/Blu-Ray player. Insert the DVD/Blu-Ray disc in the player, and then select DVD on the touch panel. You will then see the various controls which include Play, Prev, Next, Rew, FF and Stop.
Shutting System Down

To turn the system off, press the green power button on the touch panel. It will give you the screen below. Press Yes to shut the system down.