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**SYSTEM OPERATION SUMMARY**

Summary: Schroeder Conference Room is a space within the public space of the library that can be reserved for video presentation, audio conferencing as well as video conferencing. The equipment for the room will be stored in the closet located in the back of the room.

System Description:

Schroeder Room:

- **Functionality Description**: This room will have a projector installed displaying on a screen on the opposite wall from the entrance. A lectern is present in the front right of the room that needs to accommodate multiple positions from which to present at. A microphone array will be installed from the ceiling with multiple ceiling speakers installed. Lighting controllers will be installed to replace the existing lighting controls found in the back of the room.

- **Displays**:
  - 1 x ceiling mounted Hitachi CP-WU5505

- **Source Devices**:
  - Owner furnished PC in rack
  - Transmitter located in the front right of room for Laptop connections (VGA/HDMI)
  - Crestron Airmedia wireless presentation system

- **Audio**:
  - There will be 5 ceiling speakers installed in the ceiling
  - System will use a Biamp TesiraFORTÉ DAN VI DSP
  - Shure MXA910 Ceiling Microphone array
  - Crestron Single Channel 70V Amplifier

- **Switching**:
  - Crestron Digital Media Presentation Switcher

- **Controls**:
  - Crestron CP3N Controller
  - Crestron 8.7" Wireless Touch Panel
  - Crestron iLux Lighting System and Controller
SYSTEM OPERATION DETAILS

System Initializing

When the system first boots up after a power loss, the above screen is displayed. During this time the system is configuring itself to make sure the system is ready when it gets back to the main screen.
The above screen is displayed when the system is turned off. To start the system, please press anywhere on the screen.
System Starting

The above screen is displayed when the home screen is touched. During this start up bar, the system is turning on equipment from its low power state getting ready for regular use.
The above page is displayed when the startup page is finished. This is where most of the control of the system happens.

**Top Bar:**
- **Power Button:** When active the power button will allow for the system to be shut down.
- **Wireless Bars:** The wireless bars indicate the strength of the touch panel talking back to the control system.
- **Battery Gauge:** The battery gauge indicates the charge of the system. The bar will change to red at 20%
- **Camera Button:** The camera button will show options to control the in-room camera.
- **Help Button:** Pressing the help button will switch to a help page where troubleshooting with the AV team can happen.
- **Lighting Button:** The lighting button will switch to a page with additional lighting controls from the simple controls on the current page.
- **Settings Button:** The settings button switches to a page with additional less common commands that can help the presenter.

**Left Bar:**
- **Lighting Control:** The left bar offers quick lighting controls in the form of six presets.

**Right Bar:**
- **Volume Control:** The volume gauge indicates a quick glance of the current room audio levels. Pressing the bar will open additional volume controls for the rest of the room.

**Bottom Bar:**
- **Audio Conference:** Offers controls to accept or end phone calls.
- **Source Buttons:** The sources listed are those available in the room. The current red lettering indicates they are offline and not available.
- **Projector Button:** The projector button displays the current source and allows the sending of content to the projector.
Volume Controls

The following controls are shown when the volume bar on the right side of the page is pressed. Pressing anywhere else on the screen other than a button will collapse and close the audio controls.

From Right to Left:

**Program Volumes:** Program volume controls content volume from sources such as the AirMedia, PC and HDMI sources. This includes the basic volume up and down as well as a mute toggle. The volume bar will indicate the current volume available.

**Phone Call Volume:** Phone call volume is the volume control available for incoming audio during a phone call. Please keep this in mind when using WebEx as the system can call the room as well as call the pc in the room. If you call into the bridge or have the bridge call the extension 2810 this is the volume you will adjust.

**Video Call Volume:** This volume control is only used during WebEx or other video calls that utilize the PC for audio. Selecting Call Using Computer will utilize this audio control. This can only be done using the built-in PC in the room and cannot be done using the HDMI/VGA connections for a local laptop.

**Privacy Mute:** The privacy mute is universal and works across all volume controls. This will mute the in-room microphone array as well as the audio processor. No audio can exit the room via either WebEx or a phone call. Another privacy mute button can be found in audio conferencing as well.
AirMedia Page

The above page is displayed when AirMedia is pressed. Press the projector button to send the content to the projector. The page will display relevant information such as the current IP address and login code.

Disconnect All Button: The disconnect all button will terminate all active sessions and force all users out of the AirMedia. A new code will then be generated and displayed on both the AirMedia as well as the touch panel.
The above page is displayed when PC is selected. Press the projector button to send the content to the projector. There are no additional controls available when PC is selected.
HDMI / VGA Page

The above page is displayed when HDMI / VGA is selected. The button will not be available to select until the system senses sync on either the vga or hdmi cable. Sync can be determined when the screen quickly blinks blank letting you know a cable has been detected on the video output of the computer.
Blank Page

The above page is displayed when blank is selected. Sending blank to the projector will un-route content to the projector and mute the video within the projector as well. To un-mute the projector, select another source and send it to the projector.
Audio Conferencing

The above page is displayed when audio conferencing is selected. Basic controls have been added for control of the system.

**Phone Number:** The phone number is displayed in the top bar next to the room name. This is the number to give out if someone needs to call the room.

**Privacy Mute:** This is the same privacy mute that can also be found in the audio controls.
Camera Page

The above page is displayed when the camera button is selected. The page gives basic control including zooming in and out with pan and tilt control. The camera is in the back of the room on the right by the door.

**Power Button**: Pressing the power button will toggle the power. The camera is on when looking forward with a blue indicator light at the base of the camera.

**Preset Buttons**: Selecting a preset will recall the preset.

**Save Button**: Pressing the save button will allow for a new preset to be saved. Move the camera into position. Press the save button and then select the Preset number to overwrite that preset.
Help Page

This page is displayed when the help button is pressed in the top bar.

Selecting a problem will send a message via the control system to the AV team that you are having problems. This will alert the team who if available will try to resolve the issue. If unsure, calling the AV team is always an option to try and resolve the problem.

**Cancel Request Button:** If the issue is resolved, pressing this button will cancel the request in the system letting AV know the problem has been fixed or pressed in error.

**Return Button:** The return arrow button located in the top bar will return you back to the main page.
Help Page Issue Submitted

This page is displayed when one of the six problem buttons were pressed from the previous page. Pressing the return button in the top bar or at the bottom of this page.
Lighting Page

This page is displayed when the lighting button in the top bar is displayed.

**Front Lights Control**: Controls lights behind the projector screen in the front of the room.

**Outside Lights Controls**: These control the lights located in the outermost ring within the room.

**Inside Lights Controls**: These control the lights located in the inner ring within the room.

**Up Buttons**: Will increase the light intensity of the selected zone

**Down Buttons**: Will decrease the light intensity of the selected zone

**Percentage Buttons**: Will recall to that exact percentage in the selected zone

**Full On Buttons**: Will turn all lights to 100% for the selected zone

**Full Off Buttons**: Will turn all lights to 0% for the selected zone

**Lights Gauges**: Pressing anywhere on the gauge will change the selected zone to that percentage. Sliding a finger will ramp the zone either up and down.
Settings Page

This page is displayed when the settings gear is pressed in the top bar. It includes more functionality of the projector.

**Projector 1 Buttons:** These buttons will change the aspect ratio of the content being sent to the projector. The default is 16 x 10.

**Power Buttons:** This can turn the projector on and off if the projector fails to turn on or off normally.

**Projection Screen Buttons:** These buttons will raise or lower the projection screen. Pressing the button again will stop the screen if going up or down

**Input Buttons:** These buttons will change the input if manually. The system will revert to HDBaseT if a source is sent to the projector.
The projector button will display a red bar over itself when the projector is being turned on by the system. This also grays out the power button to prevent the system from being turned off while the projector is unresponsive to power off commands. Please wait until the warming bar is finished to select another source or to shut down the system.
Projector Shut Down Page

This page is displayed when the projector button is held for five seconds. This is another way to shut off the projector rather than going to the settings page.
Projector Cooling

The projector cooling bar will appear over the projector button while the projector is turning off to prevent a command being sent to the projector to turn back on. If you want to send a source and turn the projector back on, please wait until the projector is done cooling to do so.
System Shut Down Page

This page is displayed when the power button is pressed in the upper left of the touch panel.

**Yes Button:** This button will shut the system off and return the touch panel to the start page after a shutdown bar is displayed.

**No Button:** This will return the user to the previous page.
System Shutting Down

The shutdown bar page is displayed after confirming that you want to turn off the system via the shutdown page.
Settings Hidden Page

The hidden settings page can be accessed by holding the settings gear button in the upper right corner of the touch panel until the page is displayed. This is about five seconds. The hidden settings page is for system admins who are working on fixing or configuring the system.

**Enter Setup Button**: The enter setup button is for configuration of the touch panel and should not be used unless settings need to be changed within the touch panel back end such as IP address.

**Ceiling Microphone Buttons**: The ceiling microphone buttons will show the status of the microphone array. These buttons can be used to fix the array if the muting and unmuting of the system get out of step with each other.
Incoming Call Page

The above page is displayed whenever a call comes in on the audio conferencing.

**Accept Button:** Will answer the call and start the system if turned off.

**Reject Button:** Will decline the call and return the user to the previous page.
Touch Panel Offline

This page will be displayed when the system runs into a wireless communication error with the system. This page means the touch panel cannot connect or talk to the processor.

If this screen continuously pops up please contact the help desk to inform them of the issue.