

# CPMC 127 Audio and Video Diagram

## CPMC 127 ("Recital Hall") -

This information is current as of 9/9/2024:

**AV** - CPMC 127 has a podium on stage with inputs for HDMI video, 1/8" analog audio, USB stereo audio, Bluetooth stereo audio, and USB 7.1 audio. The iPad uses the "Crestron" app to control the room various AV devices (select laptop with or without video). Selecting "w/video" will bring the screen down and turn the projector on. The Mackie mixer in the podium mixes the podium mic, laptop audio, CD/DVD audio, and, optional, stage microphones. Performing a crestron shutdown or turning off the projector will send the screen back up, power off the projector and provide a 5-minute wait time (for the projector to cool). FOH audio and Wireless microphones are provided by production staff. The room has 9 Meyer UPJ speakers and 2 subs (with amps in the booth usually turned off).

**Lighting** - The podium iPad can select one of 4 lighting presets from the "Crestron" app. The booth and stage-right vestibule also have lighting panels. Presets are programmed using the ETC board in the booth.

**Projection** - The HDMI video from the podium connects to the booth via a *Kanex Pro 4k* extender. From there, the HDMI connects via passive adapter to the legacy Extron DVI extender to route video the Panasonic D5700 projector in the ceiling of CPMC 126. The Crestron serial connection provides projector control.

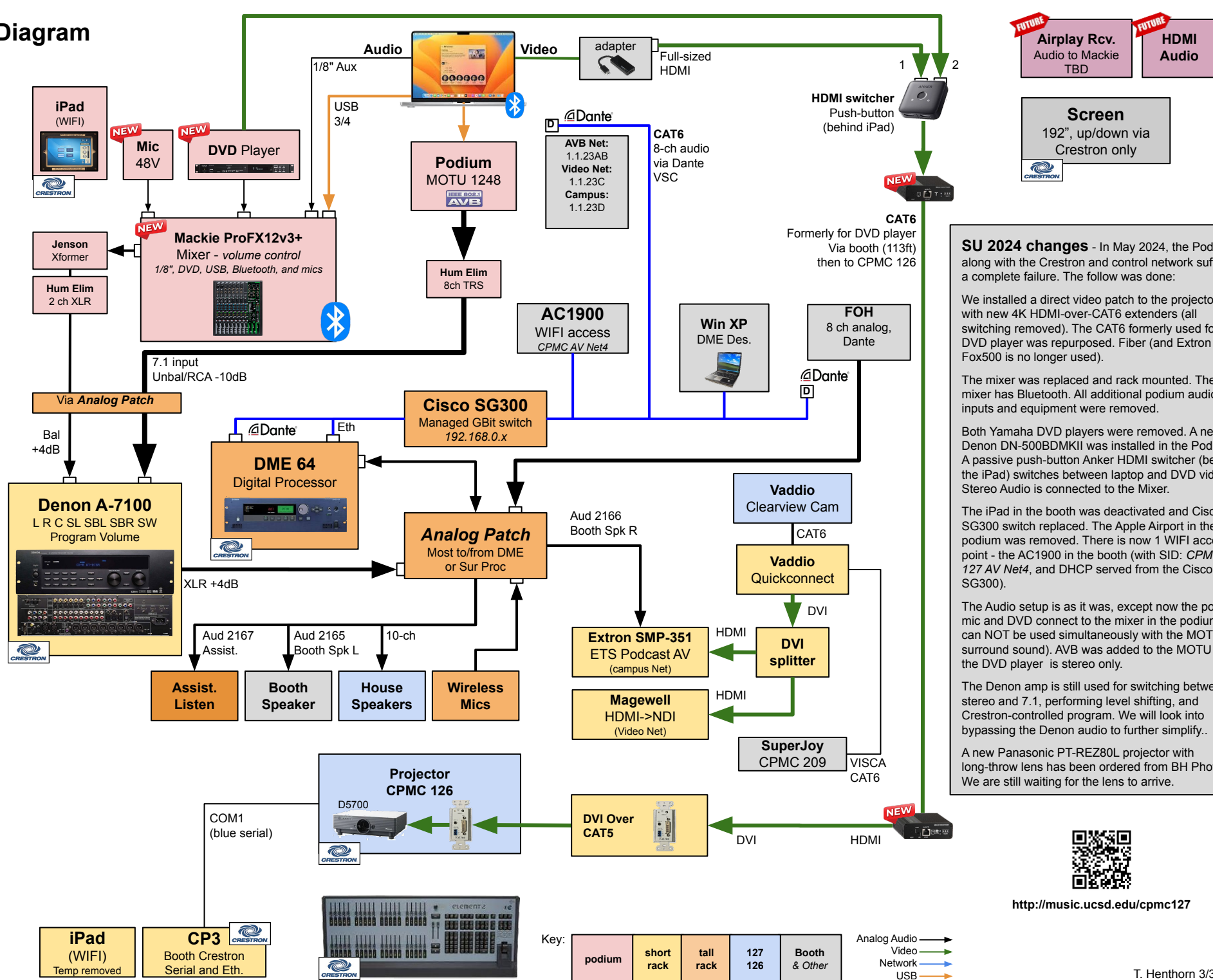
**Routing & DSP** - Audio is routed through the analog patch bay in the booth, then through a Denon amp (for switching, level shifting, and Crestron-controlled program volume control) and then to a Yamaha DME-64 processor. The DME-64 mixes, EQs, and routes audio from the podium, FOH analog and Dante to the speakers, assisted listening and the ETS podcast system.

**Networking** - As with other classrooms, CPMC 127 has campus wired ethernet (for registered faculty and TA laptops). It also has Dante, and 2 AVB ports. Ethernet cabling is coiled and stored on hooks inside the podium. The CPMC 127 dedicated Dante network can be accessed from the stage or FOH "Net" connections. Dante and Crestron control share the Cisco SG300 switch (on 1 VLAN). CPMC 127, currently, does not make use of the building-wide Dante network.

**Podcast & Camera** - The *Vaddio ClearView* PTZ camera provides video to the Extron SMP-351 podcast system (<http://172.17.82.169/>) and to the CPMC video system via a Magewell HDMI to NDI converter in the booth.

**Audio Recording** - Recording microphones (not pictured here) are patched directly into the CPMC 208/209 recording booth Grace mic preamps. Recording engineers can view the Vaddio camera on an LCD display via NDI and control the camera via the Superjoy controller (presets 1, 2 and 3 are setup for Superjoy Group 2 Camera 1).

**See also** - Ethernet Gsheet (127 AV tab), and CPMC 127 Network Diagram



**SU 2024 changes** - In May 2024, the Podium along with the Crestron and control network suffered a complete failure. The follow was done:

We installed a direct video patch to the projector with new 4K HDMI-over-CAT6 extenders (all switching removed). The CAT6 formerly used for the DVD player was repurposed. Fiber (and Extron Fox500 is no longer used).

The mixer was replaced and rack mounted. The new mixer has Bluetooth. All additional podium audio inputs and equipment were removed.

Both Yamaha DVD players were removed. A new Denon DN-500BDMKII was installed in the Podium. A passive push-button Anker HDMI switcher (behind the iPad) switches between laptop and DVD video. Stereo Audio is connected to the Mixer.

The iPad in the booth was deactivated and Cisco SG300 switch replaced. The Apple Airport in the podium was removed. There is now 1 WIFI access point - the AC1900 in the booth (with SID: CPMC 127 AV Net4, and DHCP served from the Cisco SG300).

The Audio setup is as it was, except now the podium mic and DVD connect to the mixer in the podium (so can NOT be used simultaneously with the MOTU surround sound). AVB was added to the MOTU and the DVD player is stereo only.

The Denon amp is still used for switching between stereo and 7.1, performing level shifting, and Crestron-controlled program. We will look into bypassing the Denon audio to further simplify..

A new Panasonic PT-REZ80L projector with long-throw lens has been ordered from BH Photo. We are still waiting for the lens to arrive.



<http://music.ucsd.edu/cpmc127>