



Blackmagic Design ATEM Mini A/V Mixer

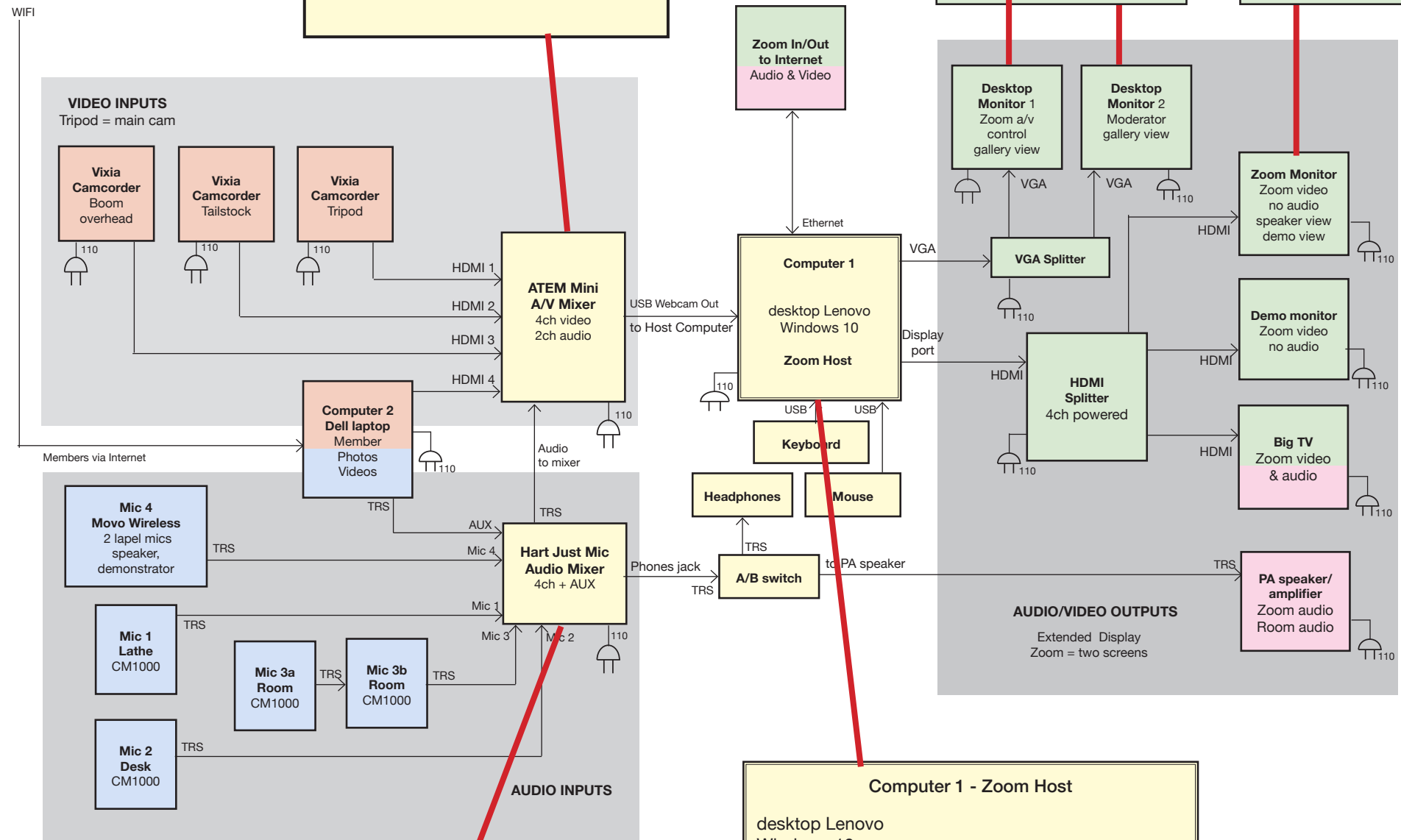
Buttons switch 4 HDMI video sources to the host Zoom feed.
Brings room audio from Hart mixer into the Zoom. Can mute and adjust volume; better to set, test, and leave audio control to the mixer.
Sends USB audio and video to host computer, Zoom sees it as a single webcam.

Vixia Camcorder 1
Tripod in meeting space
Looks at speaker, demonstrator. Needs active operator tasked with framing whatever is going on everywhere in the room, whether or not it's on the big TV.

Vixia Camcorder 3
Boom overhead
Must re-frame for each demonstrator.
Has its own monitor screen and zoom controls on the tripod.
No audio.

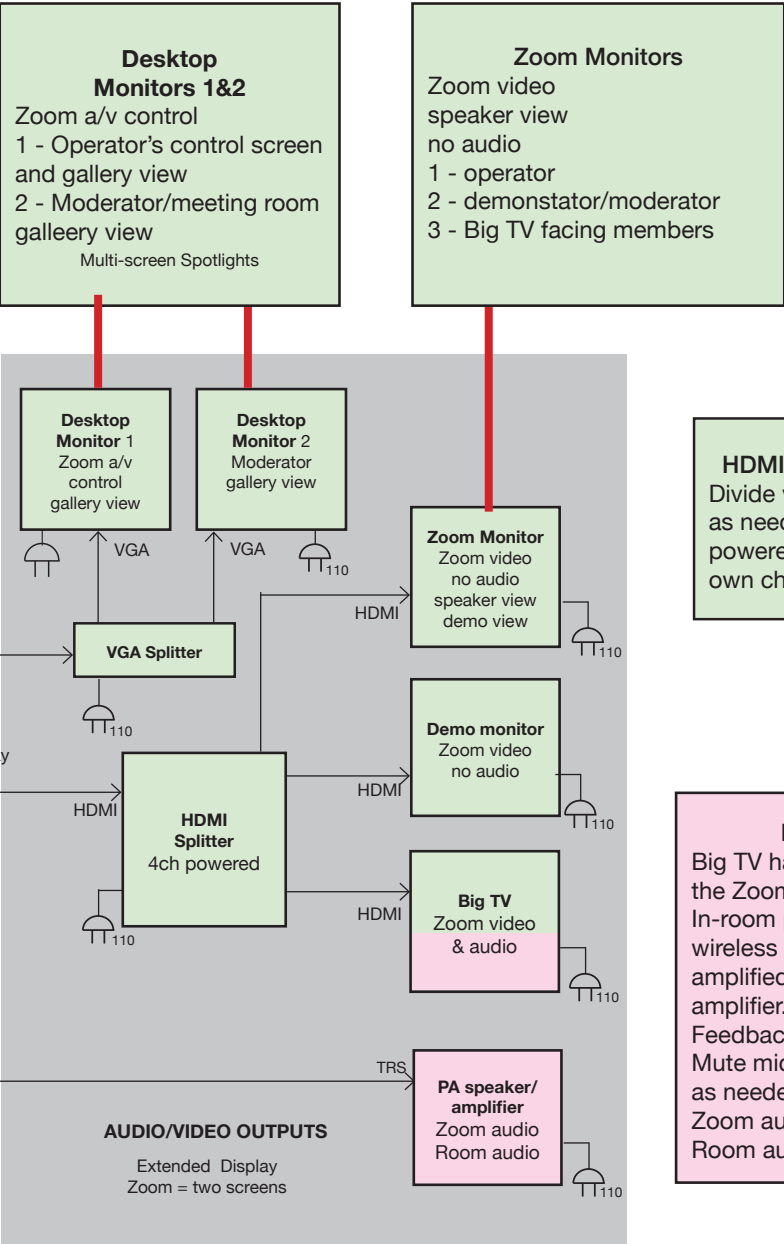
Vixia Camcorder 2
Tailstock
Best view of demonstrator's hands, tool, project.
Swivels to show members in meeting room.
No audio.

Computer 2 Dell laptop
Member Photos
Videos
Audio and video
Audio passes through to the zoom via Aux channel on mixer.



Hart Just Mic IV Audio Mixer
4ch + AUX
TRS output jack to ATEM audio input 1. Input 2 not used - control all audio sources here.
Has mute and volume control for each of four mic channels, plus master volume slider.
Headphones jack switches between operator headphones and Lyx in-room PA system, allows mic monitoring and amplification of in-room demo and member questions/comments.
Aux jack passes video sound from #2 computer through to the ATEM.

Computer 1 - Zoom Host
desktop Lenovo
Windows 10
Zoom setting - two monitors
Display settings - extended not mirrored
Main monitor shows gallery view and controls Zoom call, sets and releases Spotlights, chooses in-room speaker and demo cameras.
Always have off-site Zoom co-host.
Cannot use virtual backgrounds with multi-cam setups.



HDMI & VGA Splitters
Divide video signals as needed. Must be powered 5v from their own charger.

In-room audio
Big TV has enough volume for the Zoom.
In-room puck mics and wireless lapel mics can be amplified by Lyx PA speaker/amplifier.
Feedback squealing is likely. Mute mics and adjust volume as needed.
Zoom audio
Room audio

Lancaster Area Woodturners Audio-Video setup, December 2022 v1c explainer

John Kelsey, Zoomist

