

UConn

UNIVERSITY OF CONNECTICUT

Audio Video Equipment Standards

**Information Technology Services and
University Planning, Design and Construction**

Established Date: July 2016

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**Classroom AV Equipment (Quantities determined by design)
capacity to 99 students**

as of September 2025

Item	Features and Performance requirements	Performance Product
Laser Video Projector w/ Mount or Large Display monitor (Front monitor may be substituted for projector depending on sightline).	With HDBaseT and HDMI inputs, and RS-232 control. Lensing and brightness determined by screen size and room light conditions. Ceiling mount to be compatible with the selected projector. Must have security features.	Sony or Panasonic laser projector, Chief RPA-020 Mount or approved equivalent
Commercial grade rear monitor	Monitor with RS-232 control and HDMI inputs to be viewed by system user from teaching station. Size determined by room size.	NEC/Sharp ME652, E758, or E988
Projection Screen and Switch Control	Screen size shall be determined by ceiling height mounting needs. Motorized or fixed preferred. Switch mounted on wall for screen control.	Draper, Da-Lite, or approved equivalent
Annotation Tablet w/ 2 Pens and Desk Monitor Arm	Digital HD 21" preview monitor with ability to annotate. And Swiveling monitor arm to attach preview monitor to podium.	Qomo QIT 600 F3 HD Monitor Qomo QIT 600 F3 spare Pen Chief monitor arm K1W120B or approved equivalent
Central Room Control	Extron 7" Touch Panel (Uconn ITS-AVT to provide GUI template)	Extron TLP Pro 725
Master Controller	Extron IPCP Pro Integrated Controller integrated with Extron Global Viewer Enterprise (Uconn ITS-AVT to provide code example and include files)	Extron IPCP Pro 250xi, 350xi, or 550xi
Scaling AV Switcher	AV switcher with 1 Displayport and 5 HDMI inputs, an HDMI output and a mirrored Extron DTP2 output, with audio level control.	Extron IN 1806 4K Presentation Switcher 60-1663-01
USB Switcher	Four port USB switcher with emulation for annotation features	Extron SW4 USB or approved equivalent
Wireless content sharing	Wirelessly share content from Mac OS, Windows 10, iOS, Android operating systems.	SimplyNuc AirServer 3
Document Camera	Desktop style with HDMI output	Epson ELPD21, QOMO or approved equivalent
HDMI PC input	HDMI cable in rack to AV switcher input	
USB-C Laptop input	USB-C to HDMI Signal converter and USB C power delivery	Extron USB C HD 101
HDMI Laptop input	HDMI cable in rack to AV switcher input	
Audio Amplifier	Must meet impedance/wattage requirements for speakers	Extron, QSC, JBL or approved equivalent
Ceiling Speakers	Must provide appropriate number of speakers for complete room coverage.	Extron FF 220T or approved equivalent
Wireless Microphones	Receiver - Must be 534 to 598 MHz range	Shure QLXD 124/85 H50
	Transmitter - Lavelier Belt pack	Shure WL185
	Batteries / Charger - Rechargeable battery and table top charger	Batteries Shure SB-900A, Charger Shure SBC-200US

Digital Media Processor	Discrete audio control of at minimum 6 inputs and four outputs, network connectivity.	Extron DMP 64 Plus C 60-1823-01 or Extron DMP 128 C P 60-1179-01 (Must have AEC and USB-C)
Assistive Listening	Needs to have an ear piece and neck loop	Listen LT 800
Ceiling Microphones	Onmi Ceiling Mount RFPPA XLR White	Clockaudio C007EWRF
Desk Microphone	Surface-mount supercardioid boundary layer mic, XLR version	AKG 3331H00010
Networking switch	24 port 10/100/1000 Ethernet connectivity Power over Ethernet (PoE) and PoE pass-through	Cisco Catalyst C1000-24FP-4G-L PoE or approved equivalent
Teaching station or credenza	Approved teaching station that can accomodate standard AV racks. Must meet all ADA requirements and a cable cubby or wire management.	AvIned or VFI Furniture or approved equivalent
Uninterruptible power supply	1u rack mount UPS 1000 watts	Middle Atlantic S1000r
Power Management Unit	Must have ethernet control and web interface	EXTRON IPL T PCS4 Power Controller
Cable Cubby	With power outlet, HDMI Laptop cable, USB-C cable, ethernet cable, and a usb cable connected to usb switcher for annotation.	Extron 202 or approved equivalent
Miscellaneous	All cables connectors and hardware necessary to install a complete working system	
Wiremold	Over Floor Raceway	color: black
Streaming/Recording Device	Ability to record source image, audio, and microphone at 1080p and also stream to Kaltura RTMP streaming service. Must be Extron controlled with the ability for users to distinguish ownership of the recordings via Extron touch panel.	Extron SMP 352 60-1324-01 and Kaltura Link License 79-2548-01
Room Schedule monitor	Display calendar feed for room from University digital signage services	Bluefin BSBI101HT-FN
University provided Computer	Micro form factor computer	Dell Optiplex 7010 Micro
Microphones	Boundary layer ceiling microphone, crown desktop microphone	Clock Audio C 007W-RF, PCC170
Camera	Cameras that have HDMI and USB outputs that can be used simultaneously. Cameras that can be powered via PoE or PoE+. Tracking ability when necessary.	AVer TR211

Collaborative Classroom AV Equipment (Quantities determined by design)

	Item	Features and Performance requirements	Performance Product
Video Displays	Commercial grade monitor(s)	Monitor with RS-232 control and HDMI inputs to be viewed by student collaboration groups (4-8 per table). Size determined by room size.	NEC/Sharp ME652, E758, or E988
	Monitor Mount	Must meet ADA compliance.	Chief or approved equivalent
	Annotation Tablet w/ 2 Pens and Desk Monitor Arm	Digital HD 21" preview monitor with ability to annotate. And Swiveling monitor arm to attach preview monitor to podium.	Qomo QIT 600 F3 Tablet Qomo QIT 600 F3 Pen Chief monitor arm K1W120B or approved equivalent
Control Equipment	Central Room Control TouchPanel	7" Touch Panel for room control Power over ethernet for touch panel if required	Extron TLP Pro 725
	Master Controller	Extron IPCP Pro Integrated Controller integrated with Extron Global Viewer Enterprise (Uconn ITS-AVT to provide code example and include files)	Extron IPCP Pro 350 xi or 550xi
	Student Monitor Display Controllers	Push button interface with RS-232 outputs, PoE network connectivity, and remote managability.	Extron MLC Plus 200
Video Switching / Processing Equipment	Scaling AV Switcher	AV switcher with 1 Displayport and 5 HDMI inputs, an HDMI output and a mirrored Extron DTP2 output, with audio level control.	Extron IN 1806 4K Presentation Switcher 60-1663-01
	Digital Video Transmitter/Receiver	Long distance transmitter for sending HDMI, audio, and bidirectional RS 232 and IR signals up to 330 feet (100 meters) over a shielded CATx cable to enabled products. Extending HDMI with embedded multi-channel audio from HDMI-equipped devices and accepts analog stereo audio signals for simultaneous transmission over the same shielded twisted pair cable. It supports video signals at resolutions up to 4K. Compact enclosure size and remote power capability.	Extron DTP HDMI 330 TX , 60-1331-12 or approved equivalent
	DTP video DA	DTP Distribution amplifier to send video signal from AV switcher to each monitor	DTP HD DA4 4K 330 HDMI to Four Output DTP DA 330 feet (100 m) 60-1437-51
Video Source equipment	Wireless content sharing	Wirelessly share content from Mac OS, Windows 10, iOS, Android operating systems.	SimplyNuc AirServer 3
	Document Camera	Desktop style with HDMI output	Epson ELPD21, QOMO or approved equivalent
	HDMI PC input	HDMI cable in rack to AV switcher input	
	USB-C Laptop input	USB-C to HDMI Signal converter and USB C power delivery	Extron USB C HD 101
	HDMI Laptop input	HDMI cable in rack to AV switcher input	
	HDMI input plate	Located with MCP 108 and connected directly to supporting monitor	
Audio Equipment	Audio Amplifier	Must meet impedance/wattage requirements for speakers	Extron, QSC, JBL or approved equivalent
	Ceiling Speakers	Must provide appropriate number of speakers for complete room coverage.	Extron FF 220T
	Wireless Microphones	Reciever - Must be 534 to 598 MHz range	Shure QLXD 124/85 H50
		Transmitter - Lavelier Belt pack	Shure WL185
		Batteries / Charger - Recharagable battery and table top charger	Batteries Shure SB-900A, Charger Shure SBC-200US
Ceiling Microphones	Onmi Ceiling Mount RFPFA XLR White	Clockaudio C007EWRF	
Desk Microphone	Surface-mount supercardioid boundary layer mic, XLR version	AKG 3331H00010	

Network	Networking switch	24 port 10/100/1000 Ethernet connectivity (Purchased separately by dept) Power over Ethernet (PoE) and PoE pass-through	Cisco Catalyst C1000-24FP-4G-L PoE or approved equivalent
Teaching Station	Teaching station or credenza	Approved teaching station that can accommodate standard AV racks. Must meet all ADA requirements and a cable cubby or wire management.	AvIned or VFI Furniture or approved equivalent
	Uninterruptible power supply	1u rack mount UPS 1000 watts	Middle Atlantic S1000r
	Power Management Unit	Must have ethernet control and web interface	EXTRON IPL T PCS4 Power Controller
	Cable Cubby	With power outlet, HDMI Laptop cable, USB-C cable, ethernet cable, and a usb cable connected to usb switcher for annotation.	Extron 202 or approved equivalent
	Miscellaneous	All cables connectors and hardware necessary to install a complete working system	
	Wiremold	Over Floor Raceway	color: black
Recording and Streaming Equipment	Streaming/Recording Device	Ability to record source image, audio, and microphone at 1080p and also stream to Kaltura RTMP streaming service. Must be Extron controlled with the ability for users to distinguish ownership of the recordings via Extron touch panel.	Extron SMP 351 60-1324-01 and Kaltura Link License 79-2548-01
Room Signage	Room Schedule monitor	Display calendar feed for room from University digital signage services	Bluefin BSBI101HT-FN
Video Conference Equipment	University provided Computer	Micro form factor computer	Dell Optiplex 7000 Micro
	Microphones	Boundary layer ceiling microphone, crown desk microphone	Clock Audio C 007W-RF, PCC170
	Camera	Cameras that have HDMI and USB outputs that can be used simultaneously. Cameras that can be powered via PoE or PoE+. Tracking ability when necessary.	AVer TR211

**Lecture Hall and Auditoria AV Equipment (Quantities determined by design)
capacity for 100 students and up**

	Item	Features and Performance requirements	Performance Product
Video Display's	Commercial grade rear monitor	Monitor with RS-232 control and HDMI inputs to be viewed by system user from teaching station. Size determined by room size.	NEC/Sharp ME652, E758, E988
	Commercial grade front reinforcement monitor(s)	Monitor with RS-232 control and HDMI. Quantity and size determined by room size.	NEC/Sharp ME652, E758, E988
	Wall Mount	For Confidence and Reinforcement Monitors. Required for rooms that have a ceiling height of nine (9) feet or more. Must have 180 degree radius and security features.	Chief or approved equivalent
	Ceiling Mount	For Confidence and Reinforcement Monitors. Required for rooms that have a ceiling height of nine (9) feet or more and ceiling material of lay-in accoustical tile. Must have Must have 180 degree radius and security features.	Chief or approved equivalent
	Laser Video Projector w/ Mount	With HDMI input RS-232 control and HDBaseT Input. Lensing and brightness determined by screen size and room light conditions. Ceiling mount to be compatible with the for selected projector. Must have security features.	Sony or Panasonic projector Chief RPA-020 Mount or approved equivalent
	Projection Screen and Switch Control	Screen size shall be determined by 9' ceiling height mounting needs. Motorized contrast grey preferred. Switch mounted on wall for screen control.	Draper, Da-Lite, or approved equivalent
	Annotation Tablet w/ 2 Pens and Desk Monitor Arm	Digital HD 21" preview monitor with ability to annotate. And Swiveling monitor arm to attach preview monitor to podium.	Qomo QIT 600 F3 Tablet Qomo QIT 600 F3 Pen Chief monitor arm K1W120B or approved equivalent
	Miscellaneous	All cables connectors and hardware necessary to install a complete working system	
Control Equipment	Central Room Control TouchPanel Power Connections	7" Touch Panel for room control Power over ethernet for touch panel if required Low voltage interface to integrate screen control with control system	Extron TLP Pro 725
	Master Controller	Extron IPCP Pro Integrated Controller integrated with Extron Global Viewer Enterprise (Uconn ITS-AVT to provide code example and include files)	Extron IPCP Pro 550xi
Video Switching / Processing Equipment	Scaling matrix switcher switcher.	Matrix Switcher with HDMI and DTP/HDBT outputs or Standard AV switcher with mirrored outputs, mic inputs, and minimum of six inputs	DTP CrossPoint 108 4k 60-1381-01 or IN 1806 60-1663-01
	Digital Video Transmitter/Receiver	Long distance transmitter for sending HDMI, audio, and bidirectional RS 232 and IR signals up to 330 feet (100 meters) over a shielded CATx cable to enabled products. Extending HDMI with embedded multi-channel audio from HDMI-equipped devices and accepts analog stereo audio signals for simultaneous transmission over the same shielded twisted pair cable. It supports video signals at resolutions up to 4K. Compact enclosure size and remote power capability.	Extron DTP HDMI 330 TX , 60-1331-12 or approved equivalent
	Digital Receiver	Long distance, digital twisted pair receiver that works with the transmitter to send HDMI, audio, and bidirectional RS-232 and IR signals up to 330 feet (100 meters) over a shielded CATx cable. Extended HDMI with embedded multi-channel audio from HDMI-equipped devices. Accepts analog stereo audio signals over the same shielded twisted pair cable. Supports video signals at resolutions up to 4K. Compact enclosure size and remote power capability for discreet placement in lecterns and behind flat-panel displays.	Extron DTP HDMI 330 RX, 60-1331-13 or approved equivalent
	Video PIP Device (rooms with single displays)	Smeamless scaller for Picture in Picture	Extron DVS 605 60-1059-01
Video Source equipment	Wireless content sharing	Wirelessly share content from Mac OS, Windows 10, iOS, Android operating systems.	SimplyNuc AirServer 3
	Document Camera	Desktop style with HDMI output	Epson ELPD21, or approved equivalent
	HDMI PC input	HDMI cable in rack to AV switcher input	
	USB-C Laptop input	USB-C to HDMI Signal converter and USB C power delivery	Extron USB C HD 101
	HDMI Laptop input	HDMI cable in rack to AV switcher input	

	Miscellaneous	All cables connectors and hardware necessary to install a complete working system		
Audio Equipment	Ceiling Audio Amplifier	Must meet impedance/wattage requirements for speakers 70V	Extron, QSC, JBL or approved equivalent	
	Program Audio Amplifier	Must meet impedance/wattage requirements for speakers 70V	Extron, QSC, JBL or approved equivalent	
	Ceiling Speakers	Must provide appropriate number of speakers for complete room coverage.	Extron FF 220T or approved equivalent	
	Program Speakers	Stereo speakers, must provide appropriate number of speakers for complete room coverage.	Extron, JBL, or QSC or approved equivalent	
	Wireless Microphones	Receiver - Must be 534 to 598 MHz range		Shure QLXD 124/85 H50
		Transmitter - Lavelier Belt pack		Shure WL185
		Batteries / Charger - Rechargeable battery and table top charger		Batteries Shure SB-900A, Charger Shure SBC-200US
	Digital Media Processor	Discrete audio control of 6 inputs and four outputs, network connectivity.		Extron DMP 64 Plus C 60-1823-01
Assistive Listening	Needs to have an ear piece and neck loop		Listen LT 800	
	Ceiling Microphones	Suspended Semi-Rigid Gooseneck Cardioid Condenser Microphone with short flexible shaft	Clockaudio C3SEWRf	
	Desk Microphone	Surface-mount supercardioid boundary layer mic, XLR version	AKG 3331H00010	
Network				
	Networking switch	24 port 10/100/1000 Ethernet connectivity Power over Ethernet (PoE) and PoE pass-through	Cisco Catalyst C1000-24FP-4G-L PoE or approved equivalent	
Teaching Station	Teaching station or credenza	Approved teaching station that can accommodate standard AV racks. Must meet all ADA requirements and a cable cubby or wire management.	Avlned or VFI Furniture or approved equivalent	
	Uninterruptible power supply	1u rack mount UPS 1000 watts	Middle Atlantic S1000r	
	Power Management Unit	Must have ethernet control and configuration software	EXTRON IPL T PCS4 Power Controller	
	Cable Cubby	With power outlet, HDMI Laptop cable, USB-C cable, ethernet cable, and a usb cable connected to usb switcher for annotation.	Extron 202 or approved equivalent	
	Miscellaneous	All cables connectors and hardware necessary to install a complete working system		
	Wiremold	Over Floor Raceway	color: black	
Room Signage				
	Room Schedule monitor	Display calendar feed for room from University digital signage services	Bluefin BSB101HT-FN	
Video Conference Equipment	University provided Computer	Micro form factor computer	Dell Optiplex 7010 Micro	
	Microphones	Boundary layer ceiling microphone, crown desk microphone	Clock Audio C 007W-RF, PCC170	
	Camera	Cameras that have HDMI and USB outputs that can be used simultaneously. Cameras that can be powered via PoE or PoE+. Tracking ability when necessary.	Aver TR211, Aver TR335	

**Basic Conference Room Equipment (Quantities determined by design)
capacity 16 people**

	Item	Features and Performance requirements	Performance Product
Video Displays	Monitor	Dell Interactive Touch Display	Dell P7524QT, Dell P6524QT
	Mount	Mount for Monitor	Chief LTM1U
Video Source equipment	HDMI Laptop input	15 ft HDMI cable to monitor	
	Miscellaneous	All cables connectors and hardware necessary to install a complete working system	
Computer	Dell PC	Micro form factor computer	Dell Optiplex 7010 Micro
Room Signage	Room Schedule monitor	Display calendar feed for room from University digital signage services	Bluefin BSBI101HT-FN
Video Conference / Streaming and Recording Equipment	Video Conference System	All-in-one USB camera/microphone system with optional expansion microphone.	Logitech Meetup

**Basic Conference Room Equipment (Quantities determined by design)
capacity 24 people**

	Item	Features and Performance requirements	Performance Product
Video Displays	Monitor	LG CreateBoard Pro 86TR3PN-B 86" UHD 4K Touchscreen Commercial Monitor	Pro 86TR3PN-B
	Mount	Mount for Monitor	Chief XTM1U
Video Source/ Switching Equipment	HDMI Laptop input	15 ft HDMI cable to monitor	
	Miscellaneous	All cables connectors and hardware necessary to install a complete working system	
Computer	Dell PC	Micro form factor computer	Dell Optiplex 7010 Micro
Room Signage	Room Schedule monitor	Display calendar feed for room from University digital signage services	Bluefin BSBI101HT-FN
Video Conference / Streaming Equipment	Video Conference System	All-in-one USB camera/microphone system with optional expansion microphone.	Logitech Rally Bar