

ACCAD Motion Lab Technical Information

as of November 2024

According to OSU Fire Regulations, the maximum occupancy is:

49

In the case of performance, this number includes cast and crew.

Room (350 at Sullivant Hall)

Size

Open Space: 44' x 38'10" sprung floor and covered with black Marley

Control Area: 23'10" x 11'08"

Concrete patch: 12' x 12' (painted black)

Height to grid: 16'02"

Height to the curtain rails: 14'08"

Height to the ceiling: between 18' and 20'

Open control area positioned in the back of the lab (see 'ground plan')

Soft Goods and Screens

All curtains run in rails (for layout please see 'grid layout')

12 Black velour drapes (10 feet wide x 14' height)

1 Projection Screen 'Opera' cream white (24 feet wide x 14 feet height)

3 White sharktooth scrim (24 feet wide x 14 feet height)

1 Black sharktooth scrim (24 feet wide x 14 feet height)

1 framed Projection Screen (8 x 6 feet) on stands

3 portable pipe and black drape (8 to 12 feet wide x 8 feet tall)

Lighting

Lighting Control System

1 ETC ION (1024 DMX addresses) with 2 x 20 fader wing

15 ETC single dimmer units, 750W each

LED Lighting Fixtures

10 ETC - Source 4 Lustr+ 50°

4 ETC - Source 4 Lustr+ 36°

12 ETC - Source 4 Selador Desire D40

6 ETC - Source 4 Selador Pearl

4 ARRI SkyPanel S30-C

Incandescent Lighting Fixtures

15 TC - Source 4 575 W, 50°

1 ETC - Source 4 575 W, 70°

Various barrels of each 50°, 36°, 26° and 19° for Source 4

4 DMX controlled Dowsers

Audio

Digital Mixing Desk

Allen&Heath Advantis Solo

Input: 64 Channels

Output: 42 Bus

I/O Card: 64x64 Dante

Immersive Spatial Audio System

1 Mac Studio with SPAT Revolution Ultimate software

1 RME Digiface Dante 64x64

1 Digital Audio Denmark DAD Core 256 audio matrix

1 Digital Audio Denmark MOM Monitor Operating Module

Speakers

16 JBL AC28/26

4 JBL ASB6112 Subs

6 Tannoy VX 12 each with flying bracket

Amps

2 Crown DCI 8/300 (for JBL AC28/26)

2 Lab.Gruppen E-Series 12:2 (for JBL ASB6112 Subs)

4 Lab.Gruppen E-Series 8:2 (for Tannoy VX12)

Active Speakers

2 Genelec 1032A

2 M-Audio BX5 D2

4 Event Electronics Alp 5

Microphones

6 Shure ULXD wireless receivers

4 Shure ULXD belt pack transmitters w/ lavalier mics

2 Shure ULXD handheld transmitters

1 Shure ULXD wireless boundary mic transmitter

2 Rode MT 5 matched pair

1 Rode NT2A

1 Shure SM 58

1 Electrovoice RE10

1 Shure 184 (Lavalier)

1 Azden SGM-1X shotgun

1 Alu Boom with shock mount

1 Sennheiser Evolution 100 (wireless with Lavalier and plug on Transmitter

+ more Microphones are shared with the Department of Dance

External Soundcards

- 1 RME Digiface Dante 64x64
- 1 Motu 8PRE-ES
- 1 Focusrite Scarlett 2i2

Players

- 1 CD Tascam SS-CDR200
- 2 Bluetooth AVIO Dante 2x1

Video

Video Rack

- 1 Blackmagic Design 40x40 4K 12G-SDI Video Hub
- 1 Blackmagic Design 1 M/E ATEM Constellation 4K switcher
- 2 Blackmagic Design Teranex AV Scaler / Converter
- 1 Blackmagic Design Teranex Mini HDMI to 12G-SDI Converter
- 1 AJA OG-X openGear frame
- 4 AJA openGear HDMI to 12G-SDI converters
- 1 AJA openGear 12G-SDI/Dante 64-Channel Embedder/Disembedder
- 2 BirdDog openGear 4-Channel NDI Encoder/Decoder

Projectors

- 1 Epson Power lite L615U
- 1 Infocus 138 HDST
- 4 Optoma TH 1060P
- 3 BenQ LK936ST (short throw)
- 2 Optoma TW 610ST (short throw)
- 2 Optoma EH 4215ST (short throw)
- 1 Panasonic PT-AE 7000u
- 2 Panasonic PT-DW 530U (720p native)
- 1 Optoma Pico PK 320

Monitors

- 1 Panasonic Viera 50" plasma HDTV
- 1 Samsung UN 40 EH 5300F
- 3 Acer G 245 HQ
- 1 Atomos Sumo 19" 4-Channel Monitor, Recorder, and Switcher
- 1 Blackmagic Design Video Assist 7" 12G-SDI/HDMI HDR Recording Monitor

Cameras

- 1 Blackmagic Design Studio Camera 4K Pro
- 1 Blackmagic Design Pocket Cinema Camera 6K Pro
- 1 Canon CR-N400 4K NDI PTZ Camera
- 1 MOKOSE C100 12MP

- 1 Sony FX30 Digital Cinema Camera
- 1 iPhone 13 pro
- 1 Canon XF 100
- 3 Canon Vixia HFM 52
- 1 Canon Vixia HF R60
- 1 Theta 360° cameras
- 1 Panasonic Lumix DMC-LX 2 (point and shoot)

Miscellaneous Video

- 1 SKAARHOJ PTZ Pro V2 Camera Controller with Blue Pill
- 1 Switchblade Systems VMC12 Control Panel
- 1 Elgato Stream Deck XL with Companion Pi
- 2 Blackmagic Design DeckLink 8K Pro G2 PCI capture cards
- 1 Blackmagic Design Intensity capture card (thunderbolt)
- 3 Blackmagic Design Ultra Studio Mini Recorder (usb-c)
- 10 Blackmagic Design Micro Converter Bi-directional SDI/HDMI 12G
- 3 Xbox 360 Kinect sensor
- 2 Xbox one Kinect sensor
- 1 ORBBEC Femto Mega
- 3 ORBBEC Gemini 2
- 4 ORBBEC Astra
- 1 Matrox Triple Head digital Port(DVI)
- 1 WHD wireless HDMI system
- 1 ViewHD HDMI 4x2 Switcher
- 1 DJI RS4 Pro Gimbal

Computer

Hardware and software are constantly updated.

Hardware

- 1 Mac Pro M2 Ultra, 128 GB
- 1 Mac Studio M2 Ultra, 128 GB
- 1 MacBook Pro M3 Max, 128 GB
- 2 Lenovo Think Station with AMD Ryzen 16-Core 3.89 GHz
Nvidia RTX A6000 graphics card
- 1 Dell Precision T 7910 with Intel Xeon E5 @ 3.5 GHz
Nvidia Quadro K 5000 graphics card
- 1 Lenovo ThinkPad P1 G6 with Intel i9 @ 5.4 GHz 64GB
Nvidia GeForce RTX 4090

Network

- 3 NETGEAR AV Line M4250 GSM4230P 24-Port Gigabit PoE+
- 1 NETGEAR AV Line M4250 GSM4230PX 24-Port Gigabit PoE+

2 NETGEAR AV Line M4250 GSM4210PD 8-Port Gigabit PoE+
1 NETGEAR AX5400 Dual Band Multi-Gig Wireless Access Point

More Miscellaneous

1 Midiman USB 2x2 Midiport
1 Korg Nano Midi Controler
2 Novation Launch Control XL Midi Controller
12 Makey Makey

Software

Adobe Suite
Final Cut Pro X
Houdini
Isadora
LC Edit
Max MSP Jitter
Maya
Motion Builder Unity
Unreal Engine
TouchDesigner
Resolume Arena
And more....