

Document Version: 0.2
Prepared by: OpenAVCloud Technical Working Group
Date: January 12, 2026

Table of Contents

Table of Contents	2
Document History and Change Log	6
1. Purpose	7
2. High-Level Device Categories	8
Below is a taxonomy of AV (Audio-Visual) devices organized into categories based on their function, usage context, and technical characteristics:	
2.1 Display Devices	8
Devices that present visual content to users.	
2.1.1 Monitors & Screens	8
2.1.1.1 LCD/LED Monitors	8
2.1.1.2 OLED Displays	8
2.1.1.3 Touchscreens	8
2.1.1.4 Passive Screens	8
2.1.2 Projectors	8
2.1.2.1 DLP Projectors	8
2.1.2.2 LCD Projectors	8
2.1.2.3 Laser Projectors	8
2.1.3 Video Walls	8
2.1.3.1 LED Panels	8
2.1.3.3 LCD Video Walls	10
2.1.4 Interactive Whiteboards	10
2.1.4.1 Smart Boards	10
2.1.4.2 Digital Flipcharts	10
2.2 Audio Devices	10
Devices that capture, process, or reproduce sound.	
2.2.1 Microphones	10

- 2.2.1.1 Dynamic Microphones 10
- 2.2.1.2 Condenser Microphones 10
- 2.2.1.3 Lavalier Microphones 10
- 2.2.1.4 Boundary Microphones 10
- 2.2.1.5 Beamforming Microphones 10
- 2.2.2 Speakers 10
 - 2.2.2.1 Passive Speakers 10
 - 2.2.2.2 Active Speakers 10
 - 2.2.2.3 Ceiling Speakers 11
 - 2.2.2.4 Soundbars 11
- 2.2.3 Amplifiers & Mixers 11
 - 2.2.3.1 Audio Mixers 11
 - 2.2.3.2 Power Amplifiers 11
 - 2.2.3.3 Digital Signal Processors (DSPs) 11
- 2.3 Video Devices 11
 - Devices that capture or transmit video. 11
 - 2.3.1 Cameras 11
 - 2.3.1.1 PTZ (Pan-Tilt-Zoom) Cameras 11
 - 2.3.1.2 Fixed Cameras 11
 - 2.3.1.3 Document Cameras 11
 - 2.3.2 Video Capture & Streaming Devices 11
 - 2.3.2.1 Capture Cards 11
 - 2.3.2.2 Streaming Encoders 11
- 2.4 Video Conferencing Systems 12
 - 2.4.1 Integrated Room Systems 12
 - 2.4.2 USB Cameras 12
- 2.4.3 Codec-based Systems 12**
- 2.5 Control Systems 12**
 - Devices and software used to manage AV systems. 12
 - 2.5.1 Control Panels 12
 - 2.5.1.1 Touch Panels 12

2.5.1.2 Button Panels	12
2.5.2 Remote Controls	12
2.5.2.1 IR Remotes	12
2.5.2.2 RF Remotes	12
2.5.3 Automation Systems	12
2.5.3.1 Room Scheduling Panels	12
2.5.3.2 Environmental Controls (lighting, shades)	12
2.5.4 AV Control Software	13
2.5.4.1 On-Prem Control Systems	13
2.5.4.2 Cloud-based AV Management Platforms	13
2.6 Signal Management & Distribution	13
Devices that manage AV signal routing and processing.	13
2.6.1 Switchers & Matrix Switches	13
2.6.1.1 HDMI/SDI/AV Switchers	13
2.6.1.2 Video Matrix Routers	13
2.6.2 Extenders & Converters	13
2.6.2.1 HDMI over IP	13
2.6.2.2 HDBaseT	13
2.6.2.3 Fiber Optic Extenders	13
2.6.2.4 Format Converters (e.g., VGA to HDMI)	13
2.6.2.5 DisplayPort/USB-C DP Alt-mode devices	13
2.6.3 Splitters & Distribution Amplifiers	14
2.6.3.1 Audio Splitters	14
2.6.3.2 Video Distribution Amplifiers	14
2.7 Collaboration Tools	14
Devices and platforms that facilitate interaction and teamwork.	14
2.7.1 Interactive Displays	14
2.7.2 Wireless Presentation Systems	14
2.7.3 Unified Communications Platforms	14
2.7.4 Digital Whiteboarding Tools	14
2.8 Recording & Playback Devices	14

Devices used for capturing and replaying AV content.	14
2.8.1 Media Players	14
2.8.1.1 Blu-ray/DVD Players	14
2.8.1.2 Streaming Devices (Apple TV, Chromecast)	14
2.8.2 Recorders	14
2.8.2.1 Digital Video Recorders (DVRs)	15
2.8.2.2 Network Video Recorders (NVRs)	15
2.8.3 Storage Solutions	15
2.8.3.1 NAS Devices	15
2.8.3.2 Cloud Storage Platforms	15
2.9 Infrastructure & Accessories	15
Supporting components for AV systems.	15
2.9.1 Power Management	15
2.9.1.1 UPS Systems	15
2.9.1.2 Power Conditioners	15
2.9.1.3 Power Distribution Units (PDU)	15
2.9.2 Networking Equipment	15
2.9.2.1 Switches	15
2.9.2.2 Routers	15
2.9.2.3 Wireless Access Points	15
2.9.2.4 Network Gateways	16
3. Additional Considerations	16
3.1 XXX	16
3.2 XXX	16
3.3 16	
5. References	17

Document History and Change Log

This section captures the history of changes made to this document.

Version	Date	Reason for Change
1.0	2025-11-06	Initial release of AV Device Taxonomy Guidelines.

Purpose

This document outlines the taxonomy guidelines for Audio/Video (AV) devices developed, deployed, or integrated by members of the OpenAVCloud initiative.

High-Level Device Categories

Below is a taxonomy of AV (Audio-Visual) devices organized into categories based on their function, usage context, and technical characteristics:

Display Devices

Devices that present visual content to users.

Monitors & Screens

LCD/LED Monitors

OLED Displays

Touchscreens

Passive Screens

Projectors

DLP Projectors

LCD Projectors

Laser Projectors

Video Walls

LED Panels

2. AIO LED Walls

LCD Video Walls

Interactive Whiteboards

Smart Boards

Digital Flipcharts

Audio Devices

Devices that capture, process, or reproduce sound.

Microphones

Dynamic Microphones

Condenser Microphones

Lavalier Microphones

Boundary Microphones

Beamforming Microphones

Speakers

Passive Speakers

Active Speakers

Ceiling Speakers

Soundbars

Amplifiers & Mixers

Audio Mixers

Power Amplifiers

Digital Signal Processors⁷ (DSPs)

Video Devices

Devices that capture or transmit video.

Cameras

XXX

1. .

5. References

1. XXX
2. XXX
3. XXX