

Audiovisual

Definition

Audiovisual materials at Yale University Library include analog audio and video formats, digital audio and video formats, and film.

External Resources

[One Format Does Not Fit All: FADGI Audio-Visual Working Group's Diverse Approaches to Format Guidance](#) [1]
(October 31, 2013)

Carl Fleischhauer, "[Format Considerations in Audio-Visual Preservation Reformatting: Snapshots from the Federal Agencies Digitization Guidelines Initiative](#) [2]," *Information Standards Quarterly* 22, no. 2 (Spring 2010): 34-40.

Library of Congress [Audio-Visual Conservation Resources](#) [3](Last updated: 8/3/2007)

Guidelines

Below is a chart showing AV preservation format recommendations YUL is considering adopting in accordance with a consulting report submitted by Audiovisual Preservations Solutions in June 2013. Two competing standards are currently in use at YUL: (1) uncompressed 10-bit video, which results in large files, and (2) mxf-wrapper motion JPEG 2000, which is not 100% open source.

Format	Preservation Master	Access Master	Access Copy
Audio-Analog	<ul style="list-style-type: none"> - Broadcast Wav File (BWF) wrapper - PCM uncompressed - 24-bit - 96kHz 	n/a	<ul style="list-style-type: none"> - MPEG Audio Layer 3 (MP3) - Bitrate 256Kbps
Audio-Digital	<ul style="list-style-type: none"> - Broadcast Wav File (BWF) wrapper - Native uncompressed data at original sample rate and bit-depth 	n/a	<ul style="list-style-type: none"> - MPEG Audio Layer 3 (MP3) - Bitrate 256Kbps
Video - Analog Standard Definition	<ul style="list-style-type: none"> - Quicktime wrapper (.mov extension) - Video encoded as 10-bit YUV 4:2:2 uncompressed (v210) - Audio encoded as uncompressed PCM, 48kHz - Maintain original aspect 	<ul style="list-style-type: none"> - Quicktime wrapper (.mov extension) - Video encoded as DV - Audio encoded as uncompressed PCM, 48kHz - Maintain original aspect ratio, recording standard, interlacing, number of 	<ul style="list-style-type: none"> - MPEG4 wrapper (.mp4 extension) - Video encoded as H.264 - Audio encoded as uncompressed AAC, 44.1kHz, 256Kbps - Bitrate 5.0Mbps

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	ratio, recording standard, interlacing, number of audio channels, and auxiliary information such as original timecode and closed captioning	audio channels, and auxiliary information such as original timecode and closed captioning	
Video-Digital	<ul style="list-style-type: none">- Native encoding and data rate in Quicktime wrapper (.mov extension), e.g. DV for MiniDV and DVCam- Maintain original aspect ratio, recording standard, interlacing, number of audio channels, and auxiliary information such as original timecode and closed captioning	n/a	<ul style="list-style-type: none">- MPEG4 wrapper (.mp4 extension)- Video encoded as H.264- Audio encoded as AAC, 44.1kHz, 256kbps- Bitrate 5.0Mbps
Film	<p>16 and 8 mm:</p> <ul style="list-style-type: none">- 2k 10-bit RGB 4:4:4 DPX log- Uncompressed 96kHz/24-bit Broadcast Wav File (BWF) for audio <p>35 mm:</p> <ul style="list-style-type: none">- 4k 10-bit RGB 4:4:4 DPX log- Uncompressed 96kHz/24-bit Broadcast Wav File (BWF) for audio	<ul style="list-style-type: none">- MXF wrapper- AVC-Ultra	<ul style="list-style-type: none">- MPEG4 wrapper (.mp4 extension)- Video encoded as H.264- Audio encoded as uncompressed AAC, 44.1kHz, 256kbps- Bitrate of 5.0mbps

Source URL: <https://web.library.yale.edu/digital-initiatives/digitization-standards-and-guidelines/audiovisual>

Links

[1] <http://blogs.loc.gov/digitalpreservation/2013/10/one-format-does-not-fit-all-fadgi-audio-visual-working-groups-diverse-approaches-to-format-guidance/> [2] http://www.digitizationguidelines.gov/audio-visual/documents/IP_Fleischhauer_AudioVisual_Reformatting_isqv22no2.pdf [3] <http://www.loc.gov/avconservation/preservation/resources.html>