

## ISU Special Collections and University Archives Digitization Standards

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

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