

## How to Preserve Archival Material in Audiovisual Format, including Digital Media







Media	Ideal storage conditions	Life expectancy	Notes	Handling instructions
Grooved audio discs (i.e. Records)	<ul> <li>Constant temperature of 14°C with a sustained relative humidity of 40%</li> <li>Stable conditions with minimal fluctuations</li> <li>Store vertically and pack snugly to avoid warping</li> <li>Avoid exposure to light</li> <li>Store in a clean environment with minimal dust</li> </ul>	• Audio discs can last from one or two plays ("instantaneous recordings" of the 1930s and 1940s) to decades (vinyl 33 <sup>1</sup> / <sub>3</sub> rpm and 45 rpm records from the 1940s and later)	<ul> <li>The technology for some disc formats is now largely obsolete, making it difficult to play and migrate the recording</li> <li>Damage due to scratches and flaking on the surface layer of the disc can result in the loss of information</li> <li>Playback can damage the disc. In some instances this happens immediately, and in others, over repeated use</li> </ul>	<ul> <li>Wear snug-fitting cotton, vinyl or nitrile gloves when handling the disc</li> <li>Handle the disc by the edges and avoid touching the playing surface</li> <li>Use polyethylene or acid-free paper sleeves, not polyvinyl chloride (PVC) sleeves</li> </ul>
Video and audio on magnetic tape	<ul> <li>Constant temperature of 14°C with a sustained relative humidity of 40%</li> <li>Stable conditions with minimal fluctuations</li> <li>Store flat to avoid warping</li> <li>Store in a clean environment with minimal dust</li> <li>Use polyethylene storage containers</li> <li>Avoid storage near magnetic fields</li> </ul>	<ul> <li>20 to 50 years, depending on format, tape manufacture and storage conditions</li> <li>Not considered to be a format for long-term storage</li> </ul>	Generational loss occurs with duplication, so the original recording is often the best one Acetate-based tapes may become brittle and break during use Technology and formats have changed over time and tape quality varies The technology is now largely obsolete, making it difficult to play and migrate the recording There are no options for preservation other than digitization	Avoid exposure to light, especially for extended periods
Digital Media	Store at room temperature     Keep away from moisture	Less than one year to upwards of 10 years, depending on the format     Generational loss is minimal in noncompressed formats during transfer from one digital format to another	<ul> <li>A short lifespan         is complicated by         rapidly changing and         obsolescing technologies         and formats</li> <li>Loss of information is         more complete and         irreversible than with         analog formats</li> <li>Consider all digital media         to be temporary</li> <li>Keep a master copy of         all data, but store copies         in multiple locations on         multiple formats</li> </ul>	