



Rich Radin, Sony Optical Archive

TITLE

Write-Once Optical For Long-Term Data Archiving

ABSTRACT

Data growth is a constant, with more and more digital content requiring long-term regulatory-compliant retention and preservation. Technology choices abound, yet the critical value of any deep archive is the ability to retrieve archival data over time, in many cases, tens of years from initial ingestion.

Many factors other than environmental and physical/digital security are critical to longevity, including bit rot, data immutability, backward-compatible device availability, and ultimately the choice of media. In this presentation we will focus on the base-media aspect as well as advancements in optical disc drive technology leveraging multiplexed lasers, to compare and contrast currently available solutions leveraging magnetic hard disk drives, magnetic tape, and optical disc solutions.

Our goal is to demonstrate how write-once, read-many (WORM) based optical disc technology is a superior long term (10+ years) media option when compared to alternative solutions in terms of overall cost and retrievability.

BIOGRAPHY