

# INTERNATIONAL STANDARD



**Audio archive system –  
Part 1-2: BD disk and data migration for long-term audio data storage**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**AUDIO ARCHIVE SYSTEM –**

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**FOREWORD**

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International Standard IEC 62702-1-2 has been prepared by technical area 6: Storage media, storage data structures, storage systems and equipment, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this International Standard is based on the following documents:

CDV	Report on voting
100/2894/CDV	100/2970/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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## INTRODUCTION

Sound recordings such as music, speech, and storytelling are an important human heritage and should be preserved for a long term as much as possible. However, we were not able to record sounds in order to preserve them in the past. The first recording was achieved by Edison in 1877.

Although various technologies were invented later, most of them have limitations for audio archives because storage lifetime is limited and the sound quality deteriorates when it is transferred to the next generation storage device.

The progress of LSI (Large-Scale Integrated Circuit) technology made digital recording of recorded sound possible. The digital recording is very suitable for audio archiving because the migration is performed by copying digital data.

For this purpose various recording materials exist, such as optical disks, magnetic disks, magnetic tape and nonvolatile memory such as a phase-change memory.

This document specifies physical and logical aspects for a standard of audio archives of various storage types which are typically used for audio archives in markets.

The IEC 62702 series currently consists of:

- IEC 62702-1, which specifies the minimum requirements on physical aspects of optical disks for digital sound recordings; IEC 62702-1-1 specifies requirements for DVD optical disks, IEC 62702-1-2 specifies requirements for BD optical disks.
- IEC 62702-2, which specifies the minimum requirements for digitization of content, format of digitized content, content information and media inspection.