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# IEC GUIDE 112

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# GUIDE

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## Guide on the safety of multimedia equipment

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### GUIDE ON THE SAFETY OF MULTIMEDIA EQUIPMENT

#### FOREWORD

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This fourth edition of IEC Guide 112 has been prepared in accordance with ISO/IEC Directives, Part 1, Annex A, by the IEC Advisory Committee on Safety (ACOS). This is a non-mandatory guide in accordance with SMB Decision 136/8.

This fourth edition cancels and replaces the third edition published in 2008. This edition constitutes a technical revision. This new edition includes the following significant technical changes with respect to the previous edition: it makes reference to the latest editions of IEC 60065 and IEC 60950-1; it deals additionally with equipment containing coin / button cell batteries.

The text of this IEC Guide is based on the following documents:

| Approval document | Report on voting |
|-------------------|------------------|
| C/2004/DV         | C/2025/RV        |

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.

A bilingual version of this publication may be issued at a later date.

## INTRODUCTION

This Guide contains guidelines for using the current editions of IEC 60065 and IEC 60950-1 in evaluating the safety of multimedia equipment.

The following fundamental principle was adopted as the basis for this Guide:

*Equipment complying with the requirements of IEC 60065, as well as equipment complying with the requirements of IEC 60950-1, is considered to be safe when used on its own.*

*Such equipment when interconnected in multimedia systems in accordance with the installation instructions is also considered to be safe.*

It should be noted that there are a number of differences between the two standards.

Requirements which should be fulfilled in addition to those in the current two standards are specified in this Guide.

Additional clarifications are under consideration for both publications in TC 108. Whenever IEC 60065 or IEC 60950-1 are amended or revised, or technical or market conditions change significantly, ACOS will consider this Guide for revision.

In addition, it should be noted that IEC 62368-1 may be used as an alternative to either IEC 60065 or IEC 60950-1.

For a multimedia system containing Class I and Class II equipment, the connection to the supply should ensure a reliable connection to protective earth for Class I equipment.

## GUIDE ON THE SAFETY OF MULTIMEDIA EQUIPMENT

### 1 Scope

This Guide contains guidelines for using the current editions of IEC 60065 and IEC 60950-1 in evaluating the safety of multimedia equipment.

This Guide focuses on the use of IEC 60065 or IEC 60950-1. As an alternative to both standards, IEC 62368-1 may be used.

### 2 Reference publications

IEC 60065:2014, *Audio, video and similar electronic apparatus – Safety requirements*

IEC 60950-1:2005, *Information technology equipment – Safety – Part 1: General requirements*

IEC 60950-1:2005/AMD1:2009

IEC 60950-1:2005/AMD2:2013

IEC 62368-1, *Audio/video, information and communication technology equipment – Part 1: Safety requirements*