

GUIDE

Guide on the safety of multimedia equipment

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IEC GUIDE 112:2017

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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.

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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.

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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*

3 Guidelines

3.1 Compliance <https://standards.iteh.ai/catalog/standards/sist/59afbda8-78d4-4631-892f-123d651c3572/iec-guide-112-2017>
Equipment for use in multimedia systems should comply with:

- IEC 60065 or IEC 60950-1, according to the manufacturer's choice; and
- the additions listed in Clause 3.

As explained in Clause 1, this Guide focuses on the use of IEC 60065 or IEC 60950-1. Alternatively, IEC 62368-1 may be considered.

3.2 General requirements

IEC 60065:2014, Clause 3: this clause is applicable.

IEC 60950-1:2005, 1.3: no additions required.

3.3 Marking

IEC 60065:2014, Clause 5: this clause is applicable together with the following addition to 5.5:

For equipment covered by IEC 60065 intended for use in multimedia systems, the instructions for use and installation should give the necessary information to ensure correct and safe installation and interconnection of the equipment.

IEC 60950-1:2005, IEC 60950-1:2005/AMD1:2009 and IEC 60950-1:2005/AMD2:2013, 1.7: no additions required.

3.4 Interfaces to the telecommunication network

IEC 60065: Annex B of IEC 60065:2014 should be applied to equipment to which IEC 60065 is applied and which is intended for use in multimedia systems and for connection to a telecommunication network.

Alternatively, Clause 6 of IEC 60950-1:2005, IEC 60950-1:2005/AMD1:2009 and IEC 60950-1:2005/AMD2:2013 may be applied.

NOTE 1 This choice applies to this item only and is permitted due to the fast evolution of the technology.

NOTE 2 For telecommunications networks in Australia, due to existing national differences to both standards, only Clause 6 of AS/NZS 60950-1:2015 may be applied to IEC 60065 equipment. Annex B of IEC 60065:2014 is not applicable in Australia.

3.5 Equipment containing coin/button cell batteries

Subclauses 2.7.15 (definition), 5.4 c) (marking), 5.5.2 j) (instructions), and 12.7 (requirements) of IEC 60065:2014 should be applied to equipment with user replaceable coin/button cell batteries when IEC 60950-1 is applied.

NOTE The publication of IEC 60065:2014/COR2:2016 makes the requirements also valid for lithium batteries.

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