

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Household and similar electrical appliances – Accessibility of control elements, doors, lids, drawers and handles

Appareils électrodomestiques et analogues – Accessibilité des éléments de commande, portes, abattants, tiroirs et poignées



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – ACCESSIBILITY OF CONTROL ELEMENTS, DOORS, LIDS, DRAWERS AND HANDLES

FOREWORD

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IEC 63008 has been prepared by IEC technical committee 59: Performance of household and similar electrical appliances.

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

FDIS	Report on voting
59/720/FDIS	59/723/RVD

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

Ever greater demands are now being placed on the accessibility of products, but, despite this, there has been no easily available data for assessing and evaluating household appliances from an accessibility perspective. An effective way to conduct product development is to work on the basis of adequate testing methods for assessing various properties, as accessibility recommendations can be formulated more clearly and be given greater emphasis during the development of household and similar appliances. It is important that accessibility properties be prioritized alongside functional, technical and production-related properties.

For this purpose, an inventory of sources with a product-accessibility focus has been drawn up, which has given useful basic information and data for setting recommendations for the design of household appliances. This International Standard on control elements, doors, lids, drawers and handles is a result of this work, and provides information in the form of accessibility tests and an understanding of the interaction of appliances and users with a wide range of abilities.

This document provides requirements, recommendations and measurements for specified product characteristics, i.e. related to control elements, doors, lids, drawers and handles of household and similar appliances. This contributes to their accessibility and underlying ergonomic principles. However, products may have other aspects that are not covered in this document, that might not be accessible. This information originates from scientific knowledge and the theory of ergonomics, physiology, product design and other relevant disciplines. This document applies ISO/IEC Guide 71:2014 and ISO/TR 22411:2008 to household and similar appliances. Data is drawn from ISO/TR 22411:2008 and, if not specified there, from other sources.

The purpose of designing and evaluating household and similar appliances with regard to accessibility is to maximize the number of people who can readily use the products. A more accessible product considers specific product characteristics. Such products are easier to use and beneficial for all users. This document explains the characteristics that meet the needs and abilities of an intended user in relation to control elements, doors, lids, drawers and handles.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – ACCESSIBILITY OF CONTROL ELEMENTS, DOORS, LIDS, DRAWERS AND HANDLES

1 Scope

This document contains accessibility requirements to enable more accessible use of certain elements found on household and similar electrical appliances by older persons and persons with disabilities. It provides guidance to achieve accessible design of only control elements (e.g. knobs, buttons), including control panels, display screens and doors, lids, drawers and handles. It does not enable the full assessment of the overall accessibility of a household appliance. This document covers supporting and auxiliary functions that a user performs regularly. Assembly, installation, configuration or repair of appliances are excluded.

This document provides test methods and data that support accessible design.

This document gives guidance to apply ISO/TR 22441:2008 and ISO/IEC Guide 71:2014 to the design of various interactive elements of household and similar electrical appliances. It does not deal with remote controls, or control via network or mobile applications. Touch control elements are covered in this document (see also Annex A), but how interaction controls, such as gestures and speech control, are not covered.

This document does not deal with safety issues.

NOTE IEC 60335 (all parts) sets out requirements on safety issues, e.g. surface temperatures and sharp edges.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60417, *Graphical symbols for use on equipment* (available at <http://www.graphical-symbols.info/equipment>)

IEC TS 62835:2015, *Electric toasters for household and similar use – Methods and measurements for improving accessibility*

IEC/IEEE 82079-1:2019, *Preparation of information for use (instructions for use) of products – Part 1: Principles and general requirements*

IEC 60417, *Graphical symbols for use on equipment* (available at <http://www.graphical-symbols.info/equipment>)

ISO 7010, *Graphical symbols – Safety colours and safety signs – Registered safety signs*

ISO 15008:2017, *Road vehicles – Ergonomic aspects of transport information and control systems – Specifications and test procedures for in-vehicle visual presentation*

ISO/TR 22411:2008, *Ergonomics data and guidelines for the application of ISO/IEC Guide 71 to products and services to address the needs of older persons and persons with disabilities*