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Ergonomics — Accessible design — Auditory signals for consumer products

*Ergonomie — Conception accessible — Signaux auditifs pour produits
de consommation courante*



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 24500 was prepared by Technical Committee ISO/TC 159, *Ergonomics*, Subcommittee SC 5, *Ergonomics of the physical environment*.

Introduction

People are surrounded by various consumer products: home electrical appliances, information and communication products, office-automation equipment, gas-heating equipment, toys, sanitary equipment, health-care products, cameras, etc. Auditory signals of such products must be designed so that the user can easily hear the signals in various circumstances where the product is normally used, and understand the objective and meaning of signalling.

This International Standard has been developed for improving the usability and accessibility of auditory signals used in such consumer products, thereby improving the products themselves when they are used by all people, including those with visual impairments and older people with age-related hearing impairments. Older people include those aged 65 and above for whom age-related changes of hearing become obvious.

The auditory-signal patterns specified in this International Standard were selected based on results of experiments in which people of different age ranges and with different levels of visual impairment participated. Regarding the signals, it was confirmed that the purpose of signalling was easy for listeners to understand and that the signals were not easily confused with signals in other signal categories.

This International Standard adopts the principles of accessible design presented in ISO/IEC Guide 71 and amplified in ISO/TR 22411.