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Household electric appliances - Specification of the properties of a digital system for measuring the performance

Appareils électrodomestiques - Spécification des propriétés d'un système numérique pour les mesures d'aptitude à la fonction

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IEC 63350 has been prepared by subcommittee SC 59K: Performance of household and similar electrical cooking appliances, of IEC technical committee TC 59: Performance of household and similar electrical appliances.

This first edition cancels and replaces IEC TS 63350, published in 2022.

This edition includes the following significant technical changes with respect to IEC TS 63350:

a) Revision of 4.2: Movable items (e.g., containers, jigs, reference objects) can now be present in the assessment area provided that mitigation measures are applied and periodic verification against known reference artefacts is documented; the requirement to keep the assessment area as constant as possible is retained.

b) Addition of new supporting document: Note in 5.1 introduces the Fogra 52 profile (included in the reference colour supporting documents from the IEC SC 59K supporting documents web site) which is referencing the conditions of ISO 12647-7 and ISO 12647-2.

c) Four additional reference shades with hue angles > 130° are introduced in 5.3 for calibration (to enable accurate pixel-wise hue-angle measurement). These do not create new shade classes.

d) Revision of 6.2: Calculation of sampling positions remains unchanged, but the procedure changes to reflect better the actual test scenario.

e) Added reporting of input image colour channel data (7.7).

The text of this document is based on the following documents:

Draft	Report on voting
59K/429/FDIS	59K/431/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this document is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at https://www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at https://www.iec.ch/standardsdev/publications.

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

– reconfirmed,

– withdrawn, or

– revised.

INTRODUCTION

IEC subcommittee 59K has agreed to make a collection of existing and future requirements on a digital system used in testing the performance of appliances under the scope of SC 59K, cooking appliances.

This document bundles the generic requirements given in IEC 60350-1 and IEC 60350-2 that are updated, aligned, and supplemented by further requirements. The reference colour system is changed from a proprietary colour system to the standardized and widely used CIELAB-based reference colour system.

The intention with this publication is to ensure that using a digital system, which complies with the stated requirements and described methods, leads to reproducible results.

Currently, this document focuses on test methods described in IEC 60350-1 and IEC 60350-2 but further applications based on visually detectable performance criteria can be supplemented.