



DPC: 24 / 30453830 DC

## BSI Group Headquarters

389 Chiswick High Road London W4 4AL

Tel: +44 (0)20 8996 9000

Fax: +44 (0)20 8996 7400

www.bsigroup.com

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Responsible committee: EPL/100 Audio-visual and Electronic equipment

Interested committees:

Title: BS EN IEC 63211-2-21 Durability test methods for electronic displays

Part 2-21: Environmental tests - Test methods for heat and humidity

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- iii) requires additional national guidance or information

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## Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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## UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

## Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
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## Template for comments and secretariat observations

|                  |                        |
|------------------|------------------------|
| Date: xx/xx/20xx | Document: ISO/DIS xxxx |
|------------------|------------------------|

| 1  | 2                                          | (3)                          | 4               | 5                                                                                                                                  | (6)                                                                      | 7                                                  |
|----|--------------------------------------------|------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------|
| MB | Clause No./ Subclause No./Annex (e.g. 3.1) | Paragraph/Figure/ Table/Note | Type of comment | Commend (justification for change) by the MB                                                                                       | Proposed change by the MB                                                | Secretariat observations on each comment submitted |
|    | 3.1                                        | Definition 1                 | ed              | Definition is ambiguous and needs clarifying.                                                                                      | Amend to read '...so that the mains connector to which no connection...' |                                                    |
|    | 6.4                                        | Paragraph 2                  | te              | The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK. | Delete reference to UV photometer.                                       |                                                    |



# 110/1641/CDV

## COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:  
**IEC 63211-2-21 ED1**

DATE OF CIRCULATION:  
**2024-05-31**

CLOSING DATE FOR VOTING:  
**2024-08-23**

SUPERSEDES DOCUMENTS:  
**110/1442/CD, 110/1466B/CC**

|                                                                                                                                                                      |                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| IEC TC 110 : ELECTRONIC DISPLAYS                                                                                                                                     |                                                                                                                                                           |
| SECRETARIAT:<br>Japan                                                                                                                                                | SECRETARY:<br>Mr Yoshi SHIBAHARA                                                                                                                          |
| OF INTEREST TO THE FOLLOWING COMMITTEES:                                                                                                                             | PROPOSED HORIZONTAL STANDARD:<br><input type="checkbox"/><br>Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary. |
| FUNCTIONS CONCERNED:<br><input type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input type="checkbox"/> SAFETY |                                                                                                                                                           |
| <input type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING                                                                                                       | <input checked="" type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING                                                                             |

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Recipients of this document are invited to submit, with their comments, notification of any relevant "In Some Countries" clauses to be included should this proposal proceed. Recipients are reminded that the CDV stage is the final stage for submitting ISC clauses. (SEE AC/22/2007 OR NEW GUIDANCE DOC).

TITLE:

**Durability test methods for electronic displays - Part 2-21: Environmental tests - Test methods for heat and humidity**

PROPOSED STABILITY DATE: 2030

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## DURABILITY TEST METHODS FOR ELECTRONIC DISPLAYS–

## Part 2-21: Environmental tests- Test methods for heat and humidity

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IEC 63211-2-21 has been prepared by IEC technical committee 110: Electronic Displays. It is an International Standard.

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

| Draft      | Report on voting |
|------------|------------------|
| XX/XX/FDIS | XX/XX/RVD        |

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

121 The language used for the development of this International Standard is **English**.

122 This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in  
123 accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available  
124 at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are  
125 described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

126 The committee has decided that the contents of this document will remain unchanged until the  
127 stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the  
128 specific document. At this date, the document will be

- 129 • reconfirmed,
- 130 • withdrawn, or
- 131 • revised.

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## INTRODUCTION

All documents in IEC/TC 110 that are concerned with the durability of electronic displays refer to a set of methods and procedures that are similar to each other, or sometimes even identical. This document is intended to identify these methods and to describe them as a reference for forthcoming standards to make the work of the involved experts more efficient and to avoid duplication of efforts.

Environmental tests for different display technologies have specific standards, including IEC 62715-6-2, IEC 62679-4-2, IEC 62341-5, IEC 62908-13-10, and IEC 61747-10-2, these are specific to Liquid Crystal Displays (LCDs), Organic Light Emitting Diode (OLED) displays, Electronic Paper Displays (EPDs), Flexible Display Devices (FDDs), and Touch and Interactive Displays (TIDs). They were originally created using the IEC 60068 series documents as a reference, some modifications were introduced to be suitable for electronic displays. However, the relevance of environmental testing largely depends on the application and intended use of the display, rather than the technology utilized. Therefore, we propose the creation of a comprehensive, technology-agnostic IEC standard for environmental testing of electronic displays. Such a standard would facilitate more application-centric and use-case focused testing protocols, resulting in a more thorough assessment of electronic displays under various environmental conditions.

This document has been prepared for the following objectives;

To create a document for environmental tests, which can be referred by documents\* for electronic displays (\*new documents and revision of the current documents),

- 1) To avoid unnecessary deviation
- 2) To avoid inefficiency to discuss and document in multiple working groups
- 3) To follow ISO/IEC Directives Part 2, 5.7 (Avoidance of duplication and unnecessary deviations)

This document relates to the common durability test methods applicable in the field of electronic displays, which may overlap with some of the parts of existing TC 110 documents that describe the durability test methods of the individual technologies, such as LCD, OLED, PDP and others. This document is intended to be used as the reference document in future standards and in revisions of existing. The existing standards documents will be revised in their maintenance time to refer to this document to the largest extent possible.