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BSI Standards Publication

Electronic display devices

Part 2-5: Transparent displays - Measurements of optical characteristics

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National foreword

This Published Document is the UK implementation of IEC TR 62977-2-5:2018.

The UK participation in its preparation was entrusted to Technical Committee EPL/47, Semiconductors.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Electronic display devices –
Part 2-5: Transparent displays – Measurements of optical characteristics

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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FOREWORD

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IEC TR 62977-2-5, which is a technical report, has been prepared by IEC technical committee 110: Electronic display devices.

The text of this technical report is based on the following documents:

Draft TR	Report on voting
110/919/DTR	110/935B/RVDTR

Full information on the voting for the approval of this technical report 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 list of all parts in the IEC 62977 series, published under the general title *Electronic display devices*, can be found on the IEC website.

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

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ELECTRONIC DISPLAY DEVICES –

Part 2-5: Transparent displays – Measurements of optical characteristics

1 Scope

This part of IEC 62977 describes the conditions and measuring methods for determining the displayed properties (on-screen) and the through-screen properties of transparent direct-view-type liquid crystal displays (LCDs) and those of organic light emitting diode (OLED) displays.

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 62341-6-4:2017, *Organic light emitting diode (OLED) displays – Part 6-4: Measuring methods of transparent properties*

IEC 62341-6-2, *Organic light emitting diode (OLED) displays – Part 6-2: Measuring methods of visual quality and ambient performance*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1
transparent display module
display module which can show the information on the screen and allow objects behind the display to be viewed through the screen

3.2
on-screen property
image quality attributes when the intended information is on the display panel

3.3
through-screen property
image quality attributes when the intended information is behind the display panel and is viewed through it

3.4
transmittance
ratio of the transmitted radiant or luminous flux to the incident flux in the given conditions