



BSI Standards Publication

## Organic light emitting diode (OLED) displays

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Part 6-5: Measuring methods of dynamic range properties

## National foreword

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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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## TECHNICAL SPECIFICATION

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**Organic light emitting diode (OLED) displays –  
Part 6-5: Measuring methods of dynamic range properties**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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**ORGANIC LIGHT EMITTING DIODE (OLED) DISPLAYS –****Part 6-5: Measuring methods of dynamic range properties**

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Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC TS 62341-6-5, which is a technical specification, has been prepared by IEC technical committee 110: Electronic displays.

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

Enquiry draft	Report on voting
110/1017/DTS	110/1063A/RVC

Full information on the voting for the approval of this technical specification 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 62341 series, published under the general title *Organic light emitting diode (OLED) displays*, 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- withdrawn,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.

## ORGANIC LIGHT EMITTING DIODE (OLED) DISPLAYS –

### Part 6-5: Measuring methods of dynamic range properties

#### 1 Scope

This part of IEC 62341 specifies the standard measurement conditions and dynamic range properties for OLED display panels and modules. More precisely, this document focuses on the specific aspects of the dynamic range properties.

#### 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 62341-1-2:2014, *Organic light emitting diode (OLED) displays – Part 1-2: Terminology and letter symbols*

#### 3 Terms, definitions, and abbreviated terms

##### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62341-1-2 and the following 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>

##### 3.1.1

**dynamic range coverage**  
capability of the reproducible dynamic range relative to the reference input signal

EXAMPLE IEC RGB, BT.1886, BT.2100, BT.2020, SMPTE ST.2084.

##### 3.2 Abbreviated terms

APL average picture level

CIE Commission Internationale de l'Eclairage (International Commission on Illumination)

DUT device under test

LMD light measuring device

#### 4 Standard measuring equipment and coordinate system

##### 4.1 Light measuring devices

The system configurations and/or operating conditions of the measuring equipment shall comply with the structure specified for each item.