



SLOVENSKI STANDARD
SIST EN 62341-5-3:2014
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Prikazovalniki z organskimi svetlečimi diodami (OLED) - 5-3. del: Metode za merjenje zadrževanja slike in življenjske dobe

Organic light emitting diode (OLED) displays - Part 5-3: Measuring methods of image sticking and lifetime

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Afficheurs à diodes électroluminescentes organiques (OLED) - Partie 5-3: Méthodes de mesure de la durée de vie et de la rémanence d'images

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ICS:

31.120	Elektronske prikazovalne naprave	Electronic display devices
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EUROPEAN STANDARD
NORME EUROPÉENNE
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English version

**Organic Light Emitting Diode (OLED) displays -
Part 5-3: Measuring methods of image sticking and lifetime
(IEC 62341-5-3:2013)**

Afficheurs à diodes électroluminescentes
organiques (OLED) -
Partie 5-3: Méthodes de mesure de la
durée de vie et de la rémanence d'images
(CEI 62341-5-3:2013)

Anzeigen mit organischen Leuchtdioden
(OLED) -
Teil 5-3: Messverfahren für Nachbilder
und Lebensdauer
(IEC 62341-5-3:2013)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 110/474/FDIS, future edition 1 of IEC 62341-5-3, prepared by IEC/TC 110 "Electronic display devices" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62341-5-3:2013.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-06-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-09-30

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050	Series	International Electrotechnical Vocabulary (IEV)	-	-
IEC 61966-2-1	1999	Multimedia systems and equipment - Colour measurement and management - Part 2-1: Colour management - Default RGB colour space - sRGB	EN 61966-2-1	2000
IEC 62087	2011	Methods of Measurement for the power consumption of audio, video and related equipment	EN 62087	2012
IEC 62341-1-2	2007	Organic light emitting diode displays - Part 1-2: Terminology and letter symbols	EN 62341-1-2	2009
IEC 62341-6-1	2009	Organic light emitting diode (OLED) displays - Part 6-1: Measuring methods of optical and electro-optical parameters	EN 62341-6-1	2011
CIE 15	2004	Colorimetry	-	-

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NORME INTERNATIONALE



**Organic light emitting diode (OLED) displays –
Part 5-3: Measuring methods of image sticking and lifetime**

**Afficheurs à diodes électroluminescentes organiques (OLED) –
Partie 5-3: Méthodes de mesure de la durée de vie et de la rémanence d'images**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ORGANIC LIGHT EMITTING DIODE (OLED) DISPLAYS –**Part 5-3: Measuring methods of image sticking and lifetime**

FOREWORD

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International Standard IEC 62341-5-3 has been prepared by IEC technical committee 110: Electronic display devices.

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

FDIS	Report on voting
110/474/FDIS	110/501/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 62341 series, 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 publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

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ORGANIC LIGHT EMITTING DIODE (OLED) DISPLAYS –

Part 5-3: Measuring methods of image sticking and lifetime

1 Scope

This part of IEC 62341 specifies the standard measurement conditions and measurement methods for determining the image sticking and lifetime of organic light emitting diode (OLED) display panels and modules. It mainly applies to modules.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050 (all parts), *International Electrotechnical Vocabulary* (available at <<http://www.electropedia.org>>)

IEC 62087:2011, *Methods of measurement for the power consumption of audio, video and related equipment*

IEC 62341-1-2:2007, *Organic light emitting diode (OLED) displays – Part 1-2: Terminology and letter symbols* <https://standards.iteh.ai/catalog/standards/sist/744fd7e-521c-42fd-bde3-6aeb81c9065e/sist-en-62341-5-3-2014>

IEC 62341-6-1:2009, *Organic light emitting diode (OLED) displays – Part 6-1: Measuring methods of optical and electro-optical parameters*

IEC 61966-2-1:1999, *Multimedia systems and equipment – Colour measurement and management – Part 2-1: Colour management – Default RGB colour space – sRGB*

CIE 15-2004, *Colorimetry*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62341-1-2:2007 and IEC 60050-845:1987, as well as the following apply.

3.1

equivalent current density

average current density of a certain pixel calculated from a varying luminance per frame image in a moving picture so that luminance degradation becomes similar at the same time

Note 1 to entry: See Annex A.

3.2

equivalent signal level

digital code value from 0 to 255 (in the case of 8 bits) transformed from the normalized luminance of a certain pixel by a gamma function

Note 1 to entry: See Annex A.