Organic light emitting diode (OLED) displays –
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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 displays.

This second edition replaces the first edition published in 2013. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) the measurement vehicle for lifetime is only for the module;
b) the measurement method for monitor or TV devices is modified;
c) the digital signage display is included as an example of OLED devices;
d) the measurement method with HDR (high dynamic range) for image sticking is added;
e) the analysis method with CIEDE 2000 is added for image sticking;
f) the information method for evaluating image sticking is modified.
The text of this standard is based on the following documents:

<table>
<thead>
<tr>
<th>FDIS</th>
<th>Report on voting</th>
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<tr>
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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 website 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- withdrawn;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.

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

**IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.**
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 measuring methods for determining the image sticking and lifetime of organic light emitting diode (OLED) display panels and modules, except finalized display products for end customers, such as TV sets, monitor sets and mobile phones. The measuring method for the lifetime mainly applies to modules.

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

IEC 62341-6-1:2017, Organic light emitting diode (OLED) displays – Part 6-1: Measuring methods of optical and electro-optical parameters

ISO 11664-1, Colorimetry – Part 1: CIE standard colorimetric observers

CIE 15, Colorimetry