

INTERNATIONAL STANDARD



Liquid crystal display devices –
Part 30-4: Measuring methods for liquid crystal display modules –
Dynamic backlight units



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Dynamic backlight units**

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LIQUID CRYSTAL DISPLAY DEVICES –

Part 30-4: Measuring methods for liquid crystal display modules – Dynamic backlight units

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

FDIS	Report on voting
110/753/FDIS	110/769/RVD

Full information on the voting for the approval of 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 parts in the IEC 61747 series, published under the general title *Liquid crystal display devices*, 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

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LIQUID CRYSTAL DISPLAY DEVICES –

Part 30-4: Measuring methods for liquid crystal display modules – Dynamic backlight units

1 Scope

This part of IEC 61747 specifies the standard measurement conditions and measuring methods for determining the optical performance and power consumption of active matrix liquid crystal display modules with dynamic backlight units.

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 61747-1-2, *Liquid crystal display devices – Part 1-2: Common – Terminology and letter symbols*

IEC 61747-30-1:2012, *Liquid crystal display devices – Part 30-1: Measuring methods for liquid crystal display modules – Transmissive type*

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

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

3 Terms, definitions and abbreviations

For the purposes of this document, the terms, definitions, symbols and units given in IEC 61747-1-2, as well as the following apply.

3.1 Terms and definitions

3.1.1

judder

motion-dependent temporal instability of a moving pattern

Note 1 to entry: Rather than smooth motion, there may be hesitations, inconsistencies, or other interruptions of the smooth motion of the moving content.

3.2 Abbreviations

APL	average picture level
CCD	charge coupled device
CIE	Commission Internationale de l'Eclairage (International Commission on Illumination)
CIELAB	CIE 1976 (L*a*b*) colour space
DUT	device under test
HVS	human visual system