

INTERNATIONAL STANDARD



**Liquid crystal display devices –
Part 30-3: Measuring methods for liquid crystal display modules – Motion
artefact measurement of active matrix liquid crystal display modules**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references	6
3 Terms, definitions and abbreviated terms	6
3.1 Terms and definitions.....	6
3.2 Abbreviated terms.....	7
4 Standard measuring conditions.....	8
5 Standard motion blur measuring methods.....	8
5.1 General.....	8
5.2 Direct measurement method	8
5.2.1 Standard measuring process	8
5.2.2 Analysis method	12
5.3 Indirect measurement method.....	15
5.3.1 Temporal step response	15
5.3.2 High speed camera.....	17
6 Test report.....	18
6.1 General.....	18
6.2 Items to be reported.....	18
Annex A (informative) Subjective test method	20
Annex B (informative) Motion contrast degradation	21
B.1 General.....	21
B.2 Direct measurement.....	21
B.3 Indirect measurement	22
Annex C (informative) Dynamic modulation transfer function.....	23
Bibliography.....	25
Figure 1 – Examples of edge blur test pattern.....	8
Figure 2 – Example of a pivoting pursuit camera system.....	9
Figure 3 – Example of a linear pursuit camera system	9
Figure 4 – Measurement regions for landscape orientation	10
Figure 5 – Measurement regions for portrait orientation	11
Figure 6 – Example of luminance cross-section profile of blurred edge time.....	12
Figure 7 – Example of luminance cross-section profile of extended blurred edge time	13
Figure 8 – PBET calculation.....	13
Figure 9 – Set-up to measure the temporal step response	15
Figure 10 – Example of an LC response time measurement.....	16
Figure 11 – Example of a motion picture response curve derived from the response measurement presented in Figure 10 and a convolution with a one-frame-wide window function.....	17
Figure 12 – Example of measurement data reporting	19
Figure B.1 – Example of motion contrast degradation test pattern.....	21

Figure B.2 – Example of motion contrast degradation due to line spreading 22

Figure C.1 – Example of motion contrast degradation 23

Figure C.2 – Example of DMTF properties for different motion speeds (V) 24

Table 1 – Step response data for different luminance transitions 11

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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Motion artefact measurement of
active matrix liquid crystal display modules****FOREWORD**

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International Standard IEC 61747-30-3 has been prepared by IEC technical committee 110: Electronic displays.

This first edition cancels and replaces the first edition of IEC 61747-6-3 published in 2011. This edition constitutes a technical revision.

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

- a) added test positions and areas;
- b) revised standard measuring conditions;
- c) added calculation of the standard deviation of the line-spread function of the eye;
- d) added requirements for high speed camera;

e) changed “LCDs” to “transmissive TFT LCDs” in Clause 1.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
110/1103/FDIS	110/1130/RVD

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

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.

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

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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LIQUID CRYSTAL DISPLAY DEVICES –

Part 30-3: Measuring methods for liquid crystal display modules – Motion artefact measurement of active matrix liquid crystal display modules

1 Scope

This part of IEC 61747 applies to transmissive type active matrix liquid crystal displays.

This document defines general procedures for quality evaluation related to the motion performance of transmissive thin film transistor (TFT) LCDs. It defines artefacts in the moving image and methods for motion artefact measurement.

NOTE Motion blur measurement methods and analysis methods introduced in this document are not universal tools for all the different LCD motion enhancement technologies due to their complexity. Users' attention is drawn to this fact.

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

ISO 11664-4, *Colourimetry – Part 4: CIE 1976 L*a*b* Colour space*