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INTERNATIONAL STANDARD

3D display devices –
Part 22-1: Measuring methods for autostereoscopic displays – Optical



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3D DISPLAY DEVICES –

Part 22-1: Measuring methods for autostereoscopic displays – Optical

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International Standard IEC 62629-22-1 has been prepared by IEC technical committee 110: Electronic display devices.

This second edition cancels and 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) addition of offset crosstalk and 3D pixel crosstalk as 3D crosstalk related property.

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

FDIS	Report on voting
110/784/FDIS	110/797/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 the parts in the IEC 62629 series, under the general title *3D 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

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- withdrawn,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

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

3D DISPLAY DEVICES –

Part 22-1: Measuring methods for autostereoscopic displays – Optical

1 Scope

This part of IEC 62629-22 specifies optical measuring methods for autostereoscopic display devices. It defines general measuring procedures for optical characteristics of two-view and multi-view displays and integral imaging displays.

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 62629-1-2, *3D display devices – Part 1-2: Generic – Terminology and letter symbols*

ISO/CIE 19476, *Characterization of the performance of illuminance meters and luminance meters*

CIE 15:2004, *Colorimetry*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62629-1-2 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
3D pixel crosstalk
pixel crosstalk by horizontal pixels for one lens pitch

3.2 Abbreviated terms

For the purposes of this document, the following abbreviated terms apply.

CCD	charge-coupled device
DVD	designed viewing distance
FPD	flat panel display
FWHM	full width half maximum
FWTQM	full width at three-quarter maximum
IPD	inter pupil distance