BS EN 62629-1-2:2013

BSI Standards Publication

3D Display devices

Part 1-2: Generic — Terminology and letter symbols

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The UK participation in its preparation was entrusted to Technical Committee EPL/47, Semiconductors.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Published by BSI Standards Limited 2013

ISBN 978 0 580 73740 4
ICS 31.120; 31.260

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 September 2013.

Amendments/corrigenda issued since publication

Date	Text affected

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62629-1-2

August 2013

ICS 31.120; 31.260

English version

3D Display devices - Part 1-2: Generic - Terminology and letter symbols

(IEC 62629-1-2:2013)

Dispositifs d'affichage 3D - Partie 1-2 : Généralités - Terminologie et symboles littéraux (CEI 62629-1-2:2013)

3D-Anzeigen – Teil 1-2: Allgemein – Terminologie und Buchstabensymbole (IEC 62629-1-2:2013)

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

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Foreword

The text of document 110/470/FDIS, future edition 1 of IEC 62629-1-2, prepared by IEC/TC 110 "Electronic display devices" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62629-1-2:2013.

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)	2014-05-01
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2016-08-01

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 62629-12-1	NOTE	Harmonised as EN 62629-12-1.
IEC 62629-22-1	NOTE	Harmonised as EN 62629-22-1.

CONTENTS

3D DISPLAY DEVICES –

Part 1-2: Generic – Terminology and letter symbols

1 Scope

This part of IEC 62629 provides a list of the terminologies that are frequently used in describing 3D display technologies in the IEC 62629 series. Terms for various 3D display technologies on stereoscopic, autostereoscopic, volumetric, and holographic displays are included.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1 General terms

2.1.1
3D display
display device giving depth perception with physiological depth cues

Note 1 to entry: Physiological depth cues include accommodation, convergence, binocular parallax, and motion parallax. The 3D display provides users with all or some of the physiological depth cues so that they can perceive depth. Physiological depth cues should be distinguished from pictorial depth cues which can also be provided by the usual 2D displays. Pictorial depth cues are features in an image that give a hint of the depth. Examples of pictorial depth cues are texture gradient, shadow, occlusion, and vanishing lines.

2.1.2
stereoscopic display
3D display providing binocular parallax

Note 1 to entry: See “autostereoscopic display”. For classification of the 3D displays, see Annex B.

2.1.3
autostereoscopic display
stereoscopic display that requires no viewing aids

Note 1 to entry: See “stereoscopic display”. For classification of the 3D displays, see Annex B.

2.1.4
two-view display
two-view autostereoscopic display
autostereoscopic display providing one stereoscopic view

Note 1 to entry: See “multi-view display”.

2.1.5
multi-view display
multi-view autostereoscopic display
autostereoscopic display providing multiple stereoscopic views

Note 1 to entry: See “two-view display”.