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BSI Standards Publication

3D display devices

Part 41-1: Holographic display - General information

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National foreword

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

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Part 41-1: Holographic display – General information

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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FOREWORD

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IEC TR 62629-41-1, which is a technical report, has been prepared by IEC technical committee 110: Electronic displays.

The text of this technical report is based on the following documents:

Draft TR	Report on voting
110/1019/DTR	110/1066/RVDTR

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.

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

A list of all parts in the IEC 62629 series, published under the general title *3D display devices*, can be found on the IEC website.

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- withdrawn,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
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INTRODUCTION

This document is intended to gather technical information on holographic displays and to identify optical measurement items that would be required to characterize their performance.

3D DISPLAY DEVICES –

Part 41-1: Holographic display – General information

1 Scope

This part of IEC 62629 provides general information for the standardization of holographic displays.

2 Normative references

There are no normative references in this document.

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions 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
holographic display
three-dimensional display that generates light converging to each point of a three-dimensional image in space by light diffraction

3.1.2
complex amplitude
complex value representing the amplitude and phase as the light wave

3.1.3
wavefront
locus of spatial points that share the same phase of the light wave

3.2 Abbreviated terms

EOTF	electro-optical transfer function
FOV	field of view
FWHM	full width at half maximum
MTF	modulation transfer function
NA	numerical aperture
ROI	region of interest
SBP	space bandwidth product
SLM	spatial light modulator