PD IEC TR 63145-1-1:2018

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Eyewear display

Part 1-1: Generic introduction

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Eyewear display –
Part 1-1: Generic introduction

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EYEWEAR DISPLAY –

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FOREWORD

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IEC TR 63145-1-1, which is a Technical Report, has been prepared by IEC technical committee 110: Electronic display devices.

The text of this Technical Report is based on the following documents:

Enquiry draft	Report on voting
110/966/DTR	110/982A/RVDTR

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

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

A list of all parts in the IEC 63145 series, published under the general title *Eyewear display*, 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- withdrawn,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
- amended.

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

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INTRODUCTION

This document intends to gather technical information on eyewear displays, and to clarify the relationship to normative aspects of the standardization in this technology area.

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EYEWEAR DISPLAY –

Part 1-1: Generic introduction

1 Scope

This part of IEC 63145, which is a Technical Report, provides general information for the standardization of eyewear displays. This document includes an overview of the technology, critical performance characteristics, issues of optical measurements, and other information.

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
eyewear display
display worn on the user's eye or worn close to the eye in order to provide information to the user

Note 1 to entry: See 4.1.

3.1.2
pupil forming
virtual image optics that are equipped with a magnifier and the optical elements which act as an aperture stop, and where the magnifier forms a real image of the aperture stop

3.1.3
non-pupil forming
virtual image optics where the magnifier does not form a real image of the aperture stop

Note 1 to entry: See 3.1.2.

3.2 Abbreviatied terms

AR	augmented reality
CAVE	cave automatic virtual environment
CRT	cathode ray tube
FOV	field of view
FPD	flat panel display
HMD	head mounted display

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