

# INTERNATIONAL STANDARD

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**Eyewear display –  
Part 20-20: Fundamental measurement methods – Image quality**





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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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**Eyewear display –  
Part 20-20: Fundamental measurement methods – Image quality**

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Image quality****FOREWORD**

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International Standard IEC 63145-20-20 has been prepared by IEC technical committee TC 110: Electronic displays.

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

FDIS	Report on voting
110/1110/FDIS	110/1139/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.

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- withdrawn,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.

## EYEWEAR DISPLAY –

### Part 20-20: Fundamental measurement methods – Image quality

#### 1 Scope

This part of IEC 63145 specifies the standard measurement conditions and measurement methods for determining the image quality of eyewear displays. This document is applicable to non-see-through type (virtual reality “VR” goggle) and see-through type (augmented reality “AR” glasses) eyewear displays using virtual image optics.

Contact-lens type displays and retina direct projection displays are out of the scope of this document.

NOTE See IEC TR 63145-1-1 [1]<sup>1</sup> for eyewear displays, ISO 9241-302:2008, 3.5.45, for see-through types.

#### 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 63145-20-10:–<sup>2</sup>, *Eyewear display – Part 20-10: Fundamental measuring methods – Optical properties*

ISO 9241-302:2008, *Ergonomics of human-system interaction – Part 302: Terminology for electronic visual displays*

#### 3 Terms, definitions, abbreviated terms and letter symbols

##### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 63145-20-10 and ISO 9241-302 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>

NOTE 1 Terms related to eyewear displays will be defined in specific projects.

NOTE 2 Some terms relating to eyewear displays are given in IEC TR 63145-1-1 [1].

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<sup>1</sup> Numbers in square brackets refer to the Bibliography.

<sup>2</sup> Under preparation. Stage at the time of publication: IEC FDIS 63145-20-10:2019.