

# INTERNATIONAL STANDARD



**Laser display devices –  
Part 5-3: Measuring methods of image quality for laser projection display**



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**Laser display devices –  
Part 5-3: Measuring methods of image quality for laser projection display**

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

Draft	Report on voting
110/1269/FDIS	110/1285/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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## LASER DISPLAY DEVICES –

### Part 5-3: Measuring methods of image quality for laser projection displays

#### 1 Scope

This document specifies the standard measurement conditions and measuring methods for determining the parameters of image quality for full-frame laser projection displays integrating the projection devices and screens. The front and rear projection screens are included in this document. Other display devices, such as raster-scanned (flying spot) projection devices, are not included.

#### 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 60050-845, *International Electrotechnical Vocabulary (IEV) – Part 845: Lighting*

IEC 60825-1, *Safety of laser products – Part 1: Equipment classification and requirements*

IEC TR 60825-8, *Safety of laser products – Part 8: Guidelines for the safe use of laser beams on humans*

IEC 62341-6-3:2017, *Organic light emitting diode (OLED) displays – Part 6-3: Measuring methods of image quality*

IEC 62471-5, *Photobiological safety of lamps and lamp systems – Part 5: Image projectors*

IEC 62906-1-2, *Laser display devices – Part 1-2: Vocabulary and letter symbols*

ISO/CIE 11664-1, *Colorimetry – Part 1: CIE standard colorimetric observers*

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

CIE 63, *The spectroradiometric measurement of light sources*

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

##### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-845, IEC 62906-1-2 and ISO/CIE 11664-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

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