

IEC 62906-5-2

Edition 1.0 2016-06



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IEC Central Office 3, rue de Varembé CH-1211 Geneva 20 Switzerland Tel.: +41 22 919 02 11 Fax: +41 22 919 03 00 info@iec.ch www.iec.ch

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FDIS	Report on voting
110/760/FDIS	110/768/RVD

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

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LASER DISPLAY DEVICES -

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methods for determining the monochromatic speckle contrast of laser display devices (LDDs). The LDDs may include hybrid types using both a laser or lasers, and spontaneous emissionbased light sources, such as LEDs.

NOTE The monochromatic speckle contrast measurements do not include image quality issues.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

IEC 62906-1-2:2015, Laser display devices Part 1-2: Vocabulary and letter symbols

Terms, definitions and abbreviations 3

For the purposes of this document, the terms and definitions given in IEC 62906-1-2, as well as the following apply.

3.1 **Terms and definitions**

3.1.1 fully developed speckle FDS

speckle when the speckle contrast ratio is equal to one ($C_s = 1$)

[SOURCE: Goodman:2006] [1]¹

3.2 Abbreviations

- DN digital number
- DUT device under test
- LD laser diode
- LMD light measuring device
- MTF modulation transfer function
- NA numerical aperture
- PPUT projection plane under test
- PSF point spread function

¹ Numbers square brackets refer to the bibliography.