

INTERNATIONAL STANDARD



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





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LASER DISPLAY DEVICES –

Part 1-2: Vocabulary and letter symbols

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The text of this standard is based on the following documents:

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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 –

Part 1-2: Vocabulary and letter symbols

1 Scope

This part of IEC 62906 gives the preferred terms, their definitions and symbols for laser display devices and relevant components with the object of using the same terminology when publications are prepared in different countries.

2 Terms, definitions, and abbreviations

For the purposes of this document, the following terms and definitions apply.

2.1 Classification of terms

Terms for laser display devices and relevant components are classified as follows:

- a) fundamental terms;
- b) terms related to speckle;
- c) terms related to display category;
- d) terms related to optical devices;
- e) terms related to light sources.

2.2 Fundamental terms

2.2.1

laser display device

LDD

display device using a laser or lasers, based on stimulated emission

2.2.2

hybrid laser display device

hybrid LDD

h-LDD

display device using both a laser or lasers and spontaneous emission-based light sources

2.3 Terms related to speckle

2.3.1

speckle

<laser display devices> irregularly aligned spatially-modulated image created by coherent or partially coherent lights as a result of interference on a sensor plane of the visual sensory system of the observer

Note 1 to entry: For a human observer, the sensor plane of the visual sensory system is the retina of the eye.

2.3.2

monochromatic speckle

speckle when the light source is monochromatic or quasi-monochromatic

2.3.3

colour speckle

speckle when the light source is multi-coloured