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TECHNICAL REPORT

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Flexible displays –
Part 5-61: Overview of measurement and application scenarios of stretchable displays

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FLEXIBLE DISPLAYS –

Part 5-61: Overview of measurement and application scenarios of stretchable displays

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IEC TR 62715-5-61 has been prepared by IEC technical committee 110 Electronic displays. It is a Technical Report.

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

Draft	Report on voting
110/1647/DTR	110/1668/RVDTR

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 Technical Report is English.

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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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 62715 series, published under the general title *Flexible displays*, can be found on the IEC website.

Future documents in this series will carry the new general title as cited above. Titles of existing documents in this series will be updated at the time of the next edition.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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FLEXIBLE DISPLAYS –

Part 5-61: Overview of measurement and application scenarios of stretchable displays

1 Scope

This part of IEC 62715, which is a Technical Report, provides an overview of stretchable display technologies and application scenarios for stretchable displays. This document introduces special considerations for development of measurement methods for stretchable displays.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

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

- IEC Electropedia: available at https://www.electropedia.org/
- ISO Online browsing platform: available at https://www.iso.org/obp

3.1
stretchable display device
flexible display panel and module whose surface area and shape can change when stretched

3.2
stretchable display
device to which a stretchable display panel or module is applied

3.3
stretchability
extent to which stretchable display device can be stretched

4 Stretchable devices technology

4.1 General

Various types of flexible displays have been introduced to the market [1] to [8][1]. They include foldable, rollable and slidable types. Recently, development of a new type of flexible display has been reported by academic societies as well as display industries. It is a stretchable display device. Unlike previous flexible display technologies, the size of the surface area can be changed. Furthermore, stretchable displays can have shapes with multi-curvatures in any direction. Thus, stretchable displays are often called freeform displays.

[1] Numbers in square brackets refer to the Bibliography.

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