BS IEC 62908-22-10:2024

BSI Standards Publication

Touch and interactive displays

Part 22-10: Measuring methods of fingerprint recognition performance — Under-display optical imaging fingerprint sensing

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The UK participation in its preparation was entrusted to Technical Committee EPL/100, Audio-visual equipment.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Published by BSI Standards Limited 2024

ISBN 978 0 539 15853 3

ICS 31.120

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 November 2024.

Amendments/corrigenda issued since publication

Date	Text affected

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IEC 62908-22-10

Edition 1.0 2024-11

INTERNATIONAL STANDARD

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Touch and interactive displays –
Part 22-10: Measuring methods of fingerprint recognition performance – Under-display optical imaging fingerprint sensing

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 31.120

ISBN 978-2-8327-0031-0

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TOUCH AND INTERACTIVE DISPLAYS –

Part 22-10: Measurement methods of fingerprint recognition performance – Under-display optical imaging fingerprint sensing

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

Draft	Report on voting
110/1692/FDIS	110/1713/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.

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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 62908 series, published under the general title *Touch and interactive displays*, 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 webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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TOUCH AND INTERACTIVE DISPLAYS –

Part 22-10: Measurement methods of fingerprint recognition performance – Under-display optical imaging fingerprint sensing

1 Scope

This part of IEC 62908 specifies the standard measuring conditions and measurement methods for determining the performance of fingerprint recognition systems with under-display optical imaging fingerprint sensing. This document is applicable to use displays as illumination sources of optical imaging fingerprint sensing.

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 61747-30-5, *Liquid crystal display devices – Part 30-5: Optical measuring methods of transmissive transparent LCD modules*

IEC 62341-6-1, *Organic light emitting diode (OLED) displays – Part 6-1: Measuring methods of optical and electro-optical parameters*

IEC 62341-6-4, *Organic light emitting diode (OLED) displays – Part 6-4: Measuring methods of transparent properties*

3 Terms, definitions, and abbreviated terms

3.1 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

3.1.1
optical imaging fingerprint recognition
<under-display optical imaging fingerprint sensing> recognition method of fingerprint by optical image sensor located beneath the display

3.1.2
fingerprint recognition system resolution
<under-display optical imaging fingerprint sensing> degree of resolution of a fingerprint image acquired by an under-display optical fingerprint recognition system, which is calculated using the contrast transfer function (CTF)

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