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Touch and interactive displays

Part 1-3: Generic — General introduction to pen touch technology

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Touch and interactive displays –
Part 1-3: Generic – General introduction to pen touch technology

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TOUCH AND INTERACTIVE DISPLAYS –

Part 1-3: Generic – General introduction to pen touch technology

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Draft	Report on voting
110/1311/DTR	110/1331/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/standardsdev/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- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

With the spread of smartphones in recent years, finger touch technology has become widespread throughout the world. The field of popularization has started from smartphones, and has spread from information terminals such as notebook (laptop) PCs and tablets to kiosks, ATMs, sales equipment in the field of social infrastructure, medical equipment for professional use, and construction-related items.

Finger touch has several challenges, such as malfunction due to usage environment, such as wearing of gloves or water droplets, in addition to the difficulty of fine drawing with finger touch, signature input, and so on.

Initially, for the pen touch, the operating system and application software supported only the same function as finger touch, but recently a new concept of digital ink has enabled to use not only the data of the entered trajectory, but also the progressing data such as writing pressure, pen angle and drawing, being digitized and saved together with the trajectory data. This means that a new technique with pen input has been developed, which goes beyond the conventional technology of finger touch input.

Based on the above situation, this document aims to focus on the issues related to future standardization by summarizing the sensing methods of pen touch, the types of touch pens and the corresponding technologies, and the market trends of pen touch technology.

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TOUCH AND INTERACTIVE DISPLAYS –

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1 Scope

This part of IEC 62908, which is a technical report, provides general information on pen touch technology with the aim toward standardization. This document includes an overview of the pen touch technology, critical performance characteristics, issues of characteristics measurements, and other information.

The purpose of this documents is to provide an overview of the different products available in pen touch technology.

NOTE The companies and products named in this document do not constitute an endorsement by IEC of these products.

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 60068-1, *Environmental testing – Part 1: General and guidance*

IEC 62908-1-2, *Touch and interactive displays – Part 1-2: Generic – Terminology and letter symbols*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60068-1 and IEC 62908-1-2 apply.

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

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

3.2 Abbreviated terms

AES Active electrostatic

AP Apple pencil

API Application program(ing) interface

AR/VR Augmented reality / virtual reality

ATM Automated [automatic] teller machine

DSC Digital Stationery Consortium

EMI Electromagnetic induction

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