

# INTERNATIONAL STANDARD



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**Electronic paper displays –  
Part 2: Essential ratings and characteristics**



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**Electronic paper displays –  
Part 2: Essential ratings and characteristics**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## ELECTRONIC PAPER DISPLAYS –

## Part 2: Essential ratings and characteristics

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International Standard IEC 62679-2 has been prepared by IEC technical committee 110: Electronic display devices.

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

CDV	Report on voting
110/917/CDV	110/961A/RVC

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

This International Standard is to be used in conjunction with IEC 62679-1-1:2014.

A list of all the parts in the IEC 62679 series, under the general title *Electronic paper 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 "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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- withdrawn,
- replaced by a revised edition, or
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## INTRODUCTION

This document provides the content of specifications for any kind of electronic paper display device specified by IEC 62679-1-1. The compliance requirements of this document are minimized to what is necessary to write specifications, such as basic specification, generic specification, sectional specification, and blank detail specification, except the terms agreed to by the parties. Such specifications are prepared to meet the requirements of the market, manufacturers, and users, to facilitate international trade and enhance user value in the field of electronic paper display.

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## ELECTRONIC PAPER DISPLAYS –

### Part 2: Essential ratings and characteristics

#### 1 Scope

This part of IEC 62679 is restricted to electronic paper display (EPD) modules that show information by reflection, can hold an image, and can have an integrated lighting unit. This document specifies the essential ratings and characteristics of EPD modules for the evaluation of optical and electro-optical performances, and environmental testing.

#### 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 62679-3-1, *Electronic paper displays – Part 3-1: Optical measuring methods*

IEC 62679-3-2, *Electronic paper display – Part 3-2: Measuring method – Electro-optical*

IEC 62679-3-3, *Electronic paper displays – Part 3-3: Optical measuring methods for displays with integrated lighting units*

#### 3 Terms and definitions

No terms and definitions are listed in this document.

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>

#### 4 Headline of specification sheet

The specification sheet shall state, at least, the product name, product number (PN) or code, and name of manufacturer in its headline.

#### 5 Electronic paper display (EPD) modules

##### 5.1 Classification methods

There are several classifiers for EPD modules. The dominant classifiers shall state:

- a) pixel layout: segment or dot matrix
- b) driving circuit: passive or active
- c) driving circuit structure: thin film transistor (TFT), thin film diode (TFD), micro-electro-mechanical systems (MEMS), in-plane, printed circuit board (PCB), or others