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Standards

Irish Standard  
I.S. EN IEC 63181-2:2020

# LCD multi-screen display terminals - Part 2: Measuring methods

**I.S. EN IEC 63181-2:2020**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN IEC 63181-2:2020 is the adopted Irish version of the European Document EN IEC 63181-2:2020, LCD multi-screen display terminals - Part 2: Measuring methods

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EUROPEAN STANDARD

**EN IEC 63181-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2020

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ICS 31.120

English Version

**LCD multi-screen display terminals - Part 2: Measuring methods  
(IEC 63181-2:2020)**

Terminaux d'affichage à plusieurs écrans LCD - Partie 2:  
Méthodes de mesure  
(IEC 63181-2:2020)

LCD Multi-screen Anzeigeterminals - Teil 2: Messverfahren  
(IEC 63181-2:2020)

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## **EN IEC 63181-2:2020 (E)**

### **European foreword**

The text of document 100/3413/FDIS, future edition 1 of IEC 63181-2, prepared by IEC/TC 100 "Audio, video and multimedia systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63181-2:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-04-16
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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60107-1:1997      NOTE      Harmonized as EN 60107-1:1997 (not modified)

IEC 61747-30-1:2012      NOTE      Harmonized as EN 61747-30-1:2012 (not modified)

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC/TS 63181-1	-	LCD multi-screen display terminals - Part 1: Conceptual model	-	-

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**IEC 63181-2**

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# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**LCD multi-screen display terminals –  
Part 2: Measuring methods**

**Terminaux d'affichage à plusieurs écrans LCD –  
Partie 2: Méthodes de mesure**





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**IEC 63181-2**

Edition 1.0 2020-06

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**LCD multi-screen display terminals –  
Part 2: Measuring methods**

**Terminaux d'affichage à plusieurs écrans LCD –  
Partie 2: Méthodes de mesure**

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## LCD MULTI-SCREEN DISPLAY TERMINALS –

## Part 2: Measuring methods

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International Standard IEC 63181-2 has been prepared by IEC technical committee 100: Audio, video and multimedia systems and equipment.

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

FDIS	Report on voting
100/3413/FDIS	100/3441/RVD

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.

A list of all parts in the IEC 63181 series, published under the general title *LCD multi-screen display terminals*, 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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
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## LCD MULTI-SCREEN DISPLAY TERMINALS –

### Part 2: Measuring methods

#### 1 Scope

This part of IEC 63181 specifies measuring methods for LCD multi-screen display terminals. To evaluate the characteristics of LCD multi-screen display terminals, the following measurement items are specified:

- gap (physical, optical): detailed splicing precision;
- splicing deviation: splicing accuracy of active areas of LCD splicing screen;
- installation deviation: the flatness of terminal surfaces in vertical and horizontal directions;
- luminance uniformity: luminance uniformity of adjacent LCD units;
- chromatic uniformity: chromatic uniformity of adjacent LCD units.

#### 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 TS 63181-1, *LCD multi-screen display terminals – Part 1: Conceptual model*

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions defined in IEC TS 63181-1 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>

#### 4 Measuring conditions

##### 4.1 Standard measuring environmental conditions

Measurements shall be carried out under the following standard environmental conditions:

- Temperature:  $(25 \pm 3)$  °C;
- Relative humidity: 25 % RH to 85 % RH;
- Atmospheric pressure: 86 kPa to 106 kPa;
- Illuminance range:  $\leq 1$  lx.

When different environmental conditions are applied, they shall be noted in the measurement report.

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