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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 20871.63-2021

**Organic light emitting diode (OLED) displays - Part 6-3:
Measuring methods of image quality**

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviations	1
3.1 Terms and definitions	1
3.2 Abbreviations	2
4 Standard test equipment and coordinate system	2
4.1 LMD	2
4.2 The coordinate system of the viewing direction	3
4.3 Standard test environmental conditions	3
4.4 Power supply	3
4.5 Warm-up time	4
4.6 Standard darkroom test conditions	4
4.7 Standard setting conditions	4
5 Test method	4
5.1 Spatial image quality test method	4
5.2 Time image quality test method	21
Appendix A (informative appendix) Single matrix method for correcting stray light of imaging instruments	27
Appendix B (informative appendix) Display device motion image perception resolution test	29
Reference	33

Foreword

GB/T 20871 "Organic Light Emitting Diode Display Device" has or plans to publish the following parts.

- Part 1-1.General Specification;
- Part 1-2.Terminology and text symbols;
- Part 2.Basic ratings and characteristics;
- Part 3.Sub-specifications for display screens;
- Part 4.Display module sub-specification;

- Part 5-1.Environmental test methods;
- Part 5-2.Mechanical test methods;
- Part 5-3.Test methods for residual image and life span;
- Part 6-1.Optical and photoelectric parameter test methods;
- Part 6-2.Visual quality test methods;
- Part 6-3.Image quality test method.

This part is part 6-3 of GB/T 20871.

This section was drafted in accordance with the rules given in GB/T 1.1-2009.

The translation method used in this part is equivalent to IEC 62341-6-3.2017 Organic Light Emitting Diode Display Device Part 6-3.Image Quality

Measurement method."

This section has made the following editorial changes.

---Incorporated the amendments of IEC 62341-6-3.2017/COR1.2019, and the clauses involved in these amendments have been adopted in its

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1 Scope

This part of GB/T 20871 specifies standard test strips for image quality of organic light-emitting diode (OLED) displays and display modules

Pieces and test methods.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article

Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

IEC 62341-1-2.2014 Organic Light-Emitting Diode Display Device Part 1-2.Terminology and Text Symbols [Organiclight

emittingdiode(OLED)displays-Part 1-2.Terminologyandlettersymbols]

3.1 Terms and definitions

The following terms and definitions defined in IEC 62341-1-2.2014 apply to this document.

The addresses of the terminology databases maintained by ISO and IEC for standardization are as follows.

3.1.1

Average picture level average picture level; APL

The average loading percentage of display sub-pixels based on the input signal level.

3.1.2

Static image resolution staticimageresolution

The maximum number of lines that can be fully recognized in the horizontal and vertical directions of the screen during static image input.

Note. The resolution unit is line, but pixels can also be used as resolution units.

3.1.3

Colourfidelity

The ability to reproduce the expected color.

3.1.4

Color desaturation

Due to the image sharpening algorithm, the difference in chromaticity coordinates between the solid color pattern and the grid line pattern.

3.1.5

Perspective gamma distortion directionalgammadistortion

The ratio of the gamma difference between the vertical direction and other viewing directions.