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

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**Flexible display devices - Part 5-1: Measuring methods of
optical performance**

柔性显示器件 第5-1部分：光学性能测试方法
(English Translation)

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Table of Contents

Preface
Introduction
1 Scope
2 Normative references
3 Terms and definitions, abbreviations
3.1 Terms and Definitions
3.2 Abbreviations
4 Test equipment structure
4.1 Test Configuration - Display Device Fixture
4.2 Optical test equipment
4.3 Light source configuration
5 Standard test conditions
5.1 Standard test atmospheric conditions
5.2 Standard lighting conditions
5.3 Standard setting conditions
5.4 Standard measurement position
6 Darkroom optical test method
6.1 Brightness and Brightness Uniformity
6.2 Contrast
6.3 Chromaticity, Color Uniformity, and Color Gamut
6.4 Full white color temperature
6.5 Viewing angle characteristics
6.6 Bending State Crosstalk
7 Bright Room Environment Optical Test Method
7.1 Reflection characteristics test
7.2 Bright Room Contrast
7.3 Bright Room Color
7.4 Bright Room Color Space
Appendix A (Informative) Bright Room Color Gamut Calculation Method
A:1 Purpose
A:2 Procedure for calculating color gamut values
A:3 Surface decomposition method for CIELAB color gamut calculation

Reference

Figure 1 Example of a coordinate system for a convex display device with a fixed radius of curvature on the y-axis

Figure 2 Example of a top view of a convex display device rotating within a measurement field

Figure 3 shows an example of a top view of a device mounted and rotated in the xz plane:

Figure 4 Optical characteristics of point-of-sight photometer, colorimeter, and spectroradiometer

Figure 5 Example of the relationship between the measurement field diameter and the tilt angle

Figure 6 Example of test structure for integrating sphere lighting

Figure 7 Example of directional light source illuminating a convex display device

Figure 8 Example of a ring light source illuminating a convex display device

Figure 9 Standard test position

Figure 10 Window brightness

Figure 11 Examples of color gamut representation in two commonly used chromaticity diagrams

Figure 12 Example of contrast viewing angle characteristics

Figure 13 Crosstalk pattern of 4% white windows arranged diagonally on a gray background

Figure 14 Crosstalk pattern of 4% black windows arranged diagonally on a gray background

Figure 15 Crosstalk pattern of 4% white windows arranged vertically on a gray background

Figure 16 Crosstalk pattern of 4% black windows arranged vertically on a gray background

Figure 17 Example of display device color range

Figure A:1 Analysis flow chart for calculating color gamut space

Figure A:2 The color gamut of sRGB in the CIELAB color space

Table 1 Input signals for CIELAB, CIE1931 and CIE1976 UCS color gamut tests

Table 2 CIE1976UCS chromaticity non-uniformity example

Table 3 Example of viewing angle characteristic report format

Table 4 Characteristic values of M1 and M2 for daylight illumination bodies D50 and D75

Table 5 Minimum color example required for color gamut calculation of three-primary color 8-bit display

Table 6 Measured tristimulus values for minimum color setting

Table 7 White point calculated under dark room and bright room illumination conditions

Table 8 Gamut volume in CIELAB color space

Table A:1 Tristimulus values for sRGB primary colors

Table A:2 Example of sRGB color setting in CIELAB color space

Table A:3 Example of sRGB color gamut in CIELAB color space

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting:

This document is part 5-1 of GB/T 38001 Flexible Display Devices: GB/T 38001 has been published in the following parts:

- Part 1-1: Terminology and text symbols;
- Part 5-1: Test methods for optical properties;
- Part 5-2: Test methods for optical performance of non-portable curved display devices;
- Part 5-3: Visual evaluation method;
- Part 6-1: Mechanical stress test methods;
- Part 6-2: Environmental test methods:

The following minimal editorial changes were made to this document:

- "6:1:5 Definition and evaluation of brightness uniformity" is changed to "6:1:5 Calculation of brightness uniformity";
- "6:2:4 Definition and evaluation" is modified to "6:2:4 Contrast calculation";
- "6:5:4 Definition and evaluation" is changed to "6:5:4 View angle calculation":

This document is equivalent to IEC 62715-5-1:2017 "Flexible display devices Part 5-1: Optical performance test methods":

Introduction

The new display industry is a strategic, basic and leading industry for national economic and social development: Flexible display devices are new display Flexible display is one of the important development directions of the industry: Due to its bendability, lightness and thinness, its market share is increasing:

The production, manufacturing, inspection and import and export trade needs of device products are to formulate a series of standards for flexible display devices: The Flexible

Display Devices are proposed to be Partial composition:

--- Part 1-1: Terms and text symbols: The purpose is to define the terms, definitions and text symbols preferred for flexible display devices:

--- Part 1-2: General specification: The purpose is to specify the classification, technical requirements, inspection methods, inspection rules, and Marking, packaging, transportation and storage requirements:

--- Part 2: Ratings and characteristics: The purpose is to specify the basic ratings and characteristics requirements of flexible display devices:

--- Part 3-1: Detailed specification for side-bent flexible display modules: The purpose is to specify the terms and definitions of side-bent flexible display modules, Classification, technical requirements, inspection methods, inspection rules, as well as marking, packaging, transportation and storage requirements:

--- Part 3-2: Detailed specification for external folding flexible display module: The purpose is to define the terminology and Definition, classification, technical requirements, inspection methods, inspection rules, as well as marking, packaging, transportation and storage requirements:

--- Part 3-3: Detailed specification for inner folding flexible display module: The purpose is to specify the terminology and Definition, classification, technical requirements, inspection methods, inspection rules, as well as marking, packaging, transportation and storage requirements:

--- Part 3-4: Detailed specification for rolled flexible display module: The purpose is to specify the terms and definitions, technical Requirements, inspection methods, inspection rules, as well as marking, packaging, transportation and storage requirements:

--- Part 4-1: Detailed specification for wearable flexible display modules: The purpose is to define the terminology and Definitions, requirements, inspection rules, inspection methods, and packaging, transportation and storage requirements:

--- Part 5-1: Optical performance test method: The purpose is to specify the optical properties of flexible display devices under dark room and ambient light conditions:

Standard test conditions and test methods for performance:

--- Part 5-2: Test methods for optical performance of non-portable curved display devices: The purpose is to specify non-portable curved display devices Standard test conditions and test methods for optical properties under darkroom conditions:

--- Part 5-3: Visual evaluation method: The purpose is to specify the overall framework and operating procedures for the visual evaluation of flexible display devices:

--- Part 5-10: Stretchable optical performance test specification: The purpose is to specify