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

GB/T 22181.21-2008

Replacing GB/T 11483-1989

Plasma display panels -- Part 2-1: Measuring Method -- Optical

等离子体显示器件 第2-1部分：光学参数测量方法

(English Translation)

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Foreword

"Plasma display device" series of standards is expected structure as follows.

- Part 1. Terminology and letter symbols;
- Part 2-1. Optical measurement methods;
- Part 2-2. Optical measurement methods;
- Part 2-3. Methods of measurement display quality;
- Part 3-1. Mechanical interface;
- Part 3-2. electronic interface;
- Part 4. Climatic and mechanical testing methods;
- Part 5. Generic specification.

This section, Part 2-1 "plasma display device" series of standards.

This section identical with IEC 61988-2-1:2002 "plasma display device --- Part 2-1. Optical measurement methods" (In English).

For ease of use, this section made the following editorial changes.

- a) Remove international standards preface;
- b) with a decimal point "." instead of a comma as the decimal point "." this portion of the GB/T 22181.22-2008 "plasma display devices - Part 2-2. Optical measurement methods" generations together for GB/T 11483-1989 "Test Method for AC plasma display device." this portion of the GB/T 11483-1989 related content compared to the main changes are as follows.

--- This section is aimed at color plasma display measurement module.

This section proposed by the People's Republic of China Ministry of Information Industry.

This part of the jurisdiction of the China Electronics Standardization Institute (CESI).

This section drafted by. China Electronics Technology Group Corporation 55th Research Institute.

1 Scope

This section provides a color plasma display module displays the measurement characteristics.

This section applies to the measurement of the following five items.

- a) 4% window luminance;
- b) brightness uniformity;
- c) darkroom contrast;
- d) white color and color uniformity;
- e) color gamut.

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this section, however, encourage the parties to this part of the research agreement Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 22181.1 plasma display devices - Part 1. Terminology and letter symbols (GB/T 22181.1-2008, IEC 61988-1:2003, IDT) GB/T 2421-1999 Environmental testing for electric and electronic products - Part 1. General GB/T 17309.1-1998 television broadcast receiver measuring methods - Part 1. General considerations electrical measurements at radio and video frequencies and display performance measurements (IEC 60107-1:1995, IDT) CIE Publication NO. 15.2. 1986 colorimetric (2nd Edition) (ISBN3900734003)

3 Terms and Definitions

GB/T 22181.1, terms and definitions GB/T 2421-1999 and GB/T 17309.1-1998 established applicable to this section.

4 Measuring equipment constituted

Test equipment and/or operating conditions shall meet the test requirements of the regulations.

5.1 Environmental conditions

After the measurements must be sufficient warm-up time can be carried out under standard conditions. The so-called standard environmental conditions when the temperature is $25\text{ }^{\circ}\text{C} \pm 3\text{ }^{\circ}\text{C}$, Relative humidity 25% to 85% and the atmospheric pressure is 86kPa ~ 106kPa environment. If the measurement in non-standard environment, it should be noted in the measurement report.

Warm-up time should be more than 30min and gamma correction is not performed in accordance with 15% of full-screen gray level of the input signal lights.

If you do not use the same warm-up method recommended it should be noted in the report.

5.2.1 Darkroom conditions

The amount of significant impact, should be used by subtracting the background light method, and indicated in the measurement report.

GB/T 22181.21-2008/IEC 61988-2-1:2002