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

**GB/T 18910.203-2021**

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**Liquid crystal display devices - Part 20-3: Visual inspection -  
Active matrix colour liquid crystal display modules**

液晶显示器件 第20-3部分：目检 有源矩阵彩色液晶显示模块

**(English Translation)**

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### Foreword

GB/T 18910 "Liquid Crystal Display Devices" has or plans to publish the following parts.

- Part 1-1.General Specification;
- Part 1-2.Terms and symbols;
- Part 2: Sub-specification of liquid crystal display modules;

- Part 2-1.Blank detail specifications for passive matrix monochrome liquid crystal display modules;
- Part 2-2.Blank detailed specifications for color matrix liquid crystal display modules;
- Part 3: Sub-specification of LCD screens;
- Part 3-1.Detailed specifications for blank LCD screens;
- Part 4: Basic ratings and characteristics of liquid crystal display modules and screens;
- Part 4-1.Basic ratings and characteristics of color matrix liquid crystal display modules;
- Part 5: Environmental, durability and mechanical test methods;
- Part 6-1.Photoelectric parameters of liquid crystal display device test methods;
- Part 6-2.Liquid crystal display module test method reflective type;
- Part 6-3.Liquid crystal display module test method active liquid crystal display module motion artifacts;
- Part 6-4.Liquid crystal display device test method liquid crystal display module with dynamic backlight;
- Part 10-1.Environmental, durability and mechanical test methods machinery;
- Part 10-2.Environment, durability and mechanical test methods environment and durability;
- Part 20-1.Visual inspection of monochrome LCD display;
- Part 20-2.Visual inspection of monochromatic matrix liquid crystal display module;
- Part 20-3.Visual inspection of active matrix color liquid crystal display modules.

This part is part 20-3 of GB/T 18910.

This part 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 61747-20-3:2016 "Liquid Crystal Display Device Part 20-3.Visual Inspection of Active Moment Array color liquid crystal display module".

## 1 Scope

This part of GB/T 18910 gives the quality assessment process for visual inspection of transmissive active matrix color liquid crystal display modules with human eyes.

Detailed requirements and general rules of the sequence, this section includes defect definitions and visual defect inspection methods.

**Note 1:** This section does not include moiré, because it has not yet been clearly specified.

**Note 2:** The limitation of defect type, quantity and size is stipulated in the quality contract (customer acceptance specification, warehousing inspection specification).

## 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.

GB/T 18910.102-2021 Liquid crystal display device Part 10-2.Environmental, durability and mechanical test methods Durability (IEC 61747-10-2:2014, IDT)

## 3 Terms, definitions and abbreviations

The following terms, definitions and abbreviations apply to this document.

### 3.1 General

Visual inspection

A method of displaying defect inspection by human eyes.

**Note:** The requirements for displaying defects depend on the agreement between the customer and the supplier. Therefore, the limited sample size, under clear observation and operating conditions, it is obvious the defect level shown is for reference only.

Defect

Any observable abnormal phenomenon that appears in the effective display area. (See Figure 1 for classification) Example. Figure 1 shows the division of defects into two categories. The first type of defects are defects with clear boundaries, and the second type of defects are defects with unclear boundaries. The latter category There is no clear definition of deficiencies, so it is difficult to assess. So the second category of defects is not included in this section.