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

GB/T 18910.201-2021

**Liquid crystal display devices - Part 20-1: Visual inspection -
Monochrome liquid crystal display cells**

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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 LCD blanks;

- 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 screen;
- 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 20-1 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 61747-20-1.2015 "Liquid Crystal Display Device Part 20-1.Visual Inspection of Monochromatic Liquid Crystals" Display screen (not including active matrix liquid crystal display)".

This section has made the following editorial changes.

---The standard name was changed to "Liquid Crystal Display Device Part 20-1.Visual Inspection of Monochrome Liquid Crystal Display".

1 Scope

This part of GB/T 18910 specifies the visual inspection method for monochromatic liquid crystal display screens.

Mirror, detailed regulations and general rules for visual inspection of the non-display area and display area of a monochrome LCD screen. In addition, this section includes missing Method of defect definition and visual inspection of defects.

Note. The limitation on the type, quantity and size of defects is stipulated in the quality

contract (customer acceptance specification and incoming material 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)

IEC 61747-1-2.2014 Liquid crystal display devices Part 1-2.General terms and text symbols (Liquidcrystaldisplay

devices-Part 1-2.Generic-Terminologyandlettersymbols)

3.1 Terms and definitions

The terms, definitions and text symbols defined by IEC 61747-1-2.2014 and GB/T 18910.102-2021 apply to this document.

3.2 Abbreviations

The following abbreviations apply to this document.

DUT. device under test (deviceundertest)

4.1.1.1 Temperature

All visual inspections should be carried out under specified temperature conditions, in accordance with Chapter 4 of GB/T 18910.102-2021.

4.1.1.2 Humidity

All visual inspections should be carried out under specified humidity conditions, in accordance with Chapter 4 of GB/T 18910.102-2021.

4.1.1.3 Illumination

All visual inspections should be carried out under the illuminance level specified in the detailed specification, and the illuminance should be adjusted to enable accurate visual inspections