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

GB/T 18910.11-2024

Replacing GB/T 18910.1-2012

**Liquid crystal display devices - Part 1-1: Generic specification
(English Translation)**

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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 1-1 of GB/T 18910: GB/T 18910 has been published in the following parts:

- Liquid crystal display devices Part 1-1: General specification (GB/T 18910.11);
- Liquid crystal display devices Part 1-2: Terms and symbols (GB/T 18910.12);
- Liquid crystal display devices Part 2: Liquid crystal display module specification (GB/T 18910.2);
- Liquid crystal display devices Part 2-1: Passive matrix monochrome liquid crystal display module blank detail specification (GB/T 18910.21);
- Liquid crystal display devices Part 2-2: Blank detail specification for color matrix liquid crystal display modules (GB/T 18910.22);
- Liquid crystal display devices Part 3: Liquid crystal display panel specification (GB/T 18910.3);
- Liquid crystal display devices Part 4: Basic ratings and characteristics of liquid crystal display modules and panels (GB/T 18910.4);
- Liquid crystal display devices Part 4-1: Basic ratings and characteristics of color matrix liquid crystal display modules (GB/T 18910.41);
- Liquid crystal and solid state display devices Part 5: Environmental, durability and mechanical test methods (GB/T 18910.5);
- Liquid crystal display devices Part 6-1: Test methods for photoelectric parameters of liquid crystal display devices (GB/T 18910.61);
- Liquid crystal display devices Part 6-2: Test methods for liquid crystal display modules - Reflective type (GB/T 18910.62);
- Liquid crystal display devices Part 6-3: Test methods for liquid crystal display modules Motion artifacts in active matrix liquid crystal display modules (GB/T 18910.63);
- Liquid crystal display devices Part 10-1: Environmental, durability and mechanical test methods Mechanical (GB/T 18910.101);
- Liquid crystal display devices Part 10-2: Environmental, durability and mechanical test methods Environment and durability (GB/T 18910: 102);

--- Liquid crystal display devices Part 20-1: Visual inspection of monochrome liquid crystal displays (GB/T 18910.201);

--- Liquid crystal display devices Part 20-2: Visual inspection of monochrome matrix liquid crystal display modules (GB/T 18910.202);

--- Liquid crystal display devices Part 20-3: Visual inspection of active matrix color liquid crystal display modules (GB/T 18910.203);

This document replaces GB/T 18910.1-2012 "Liquid Crystal Display Devices Part 1: General Specification" and is consistent with GB/T 18910.1-2012:

In addition to structural adjustments and editorial changes, the main technical changes are as follows:

a) Deleted the relevant contents about IEC Q and QC (see 4.1, 5:3, 5:4, 5:5, 5:6, 5:7:3:4, 5:7:6);

b) The qualification for appraisal and approval has been deleted (see 5.2 of GB/T 18910.1-2012);

c) Change "Note 2" and "Note 3" in 6:3:1 to the main text (see 6.3:1, 6:3:1:1 of GB/T 18910.1-2012);

d) Mechanical tests were added (see 6.5):

This document is equivalent to IEC 61747-1-1:2014 "Liquid crystal display devices Part 1-1: General specifications":

The following minimal editorial changes were made to this document:

---The name of the standard is changed to "Liquid Crystal Display Devices Part 1-1: General Specification":

--- Because 6:2:2 in IEC 61747-1-1:2014 is for dimensions, 6:2:2:2 is for marking durability, 6:2:2:3 is for conditions, and 6:2:2:4 is for initial inspection and final inspection, 6:2:2:3 and 6:2:2:4 are about the durability of the sign: There is an error in the editing, so delete "6:2:2:1 Overall Change the clause number and title of "6:2:2:2" to "6:2:3", "6:2:2:3" to "6:2:3:1", and "6:2:2:4" to "6:2:3:2":

Introduction

In order to meet the production, manufacturing, inspection, and import and export trade needs of liquid crystal display devices in my country, a series of standards for liquid crystal display devices are formulated:

GB/T 18910 "Liquid Crystal Display Devices" is intended to consist of the following parts:

--- Part 1-1: General specification: The purpose is to specify the general procedures for the

inspection of liquid crystal display devices and to give the electro-optical characteristics test method:

General requirements, for climatic, mechanical and durability tests:

--- Part 1-2: Terms and symbols: The purpose is to define the preferred terms, definitions and text symbols for liquid crystal display devices:

--- Part 2: Liquid crystal display module section specification: The purpose is to specify the quality assessment procedures and inspection requirements required for evaluating liquid crystal display modules:

requirements, screening sequences, sampling requirements, details of tests and test methods:

--- Part 2-1: Passive matrix monochrome liquid crystal display module blank detail specification: The purpose is to specify the format and summary page requirements:

The minimum requirements and detailed specifications:

--- Part 2-2: Blank Detailed Specification for Color Matrix Liquid Crystal Display Modules: The purpose is to specify the format and summary page and detailed the requirements for the most basic content of the specification:

--- Part 3: Liquid crystal display screen specification: The purpose is to specify the quality assessment procedures and inspection requirements required for evaluating liquid crystal display screens:

requirements, screening sequences, sampling requirements, tests and test methods:

--- Part 3-1: Liquid Crystal Display (LCD) Screen Blank Detailed Specification: The purpose is to define the quality assessment system for LCD screens:

--- Part 4: Basic ratings and characteristics of liquid crystal display modules and panels: The purpose is to specify liquid crystal display panels and passive matrix monochrome Basic ratings and characteristic requirements of LCD display modules:

--- Part 4-1: Basic ratings and characteristics of color matrix liquid crystal display modules: The purpose is to specify the basic ratings and characteristics of color matrix liquid crystal display modules:

Basic ratings and characteristic requirements of the block:

--- Part 5: Environmental, durability and mechanical test methods: The purpose is to evaluate the environmental performance of liquid crystal display devices and to determine uniform the preferred test method and preferred value of stress level:

--- Part 6-1: Test methods for electro-optical parameters of liquid crystal display devices: The purpose is to specify the standard for electro-optical parameters of liquid crystal