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

GB/T 18910.22-2024

Replacing GB/T 18910.22-2008

**Liquid crystal display devices - Part 2-2: Matrix colour LCD
modules - Blank detail specification
(English Translation)**

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Table of Contents

Preface
Introduction
1 Scope
2 Normative references
3 Terms and Definitions
4 Guidelines for the preparation of detailed specifications
5 Logo
6 Ordering Information
7 Limiting values (absolute maximum ratings)
8 Working range and electrical and optical characteristics
9 Test conditions and inspection requirements
10 Identification and approval test (Group D)
11 Supplementary Notes
Appendix A (Informative) Supplementary Explanation Item

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 2-2 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 18910.22-2008 "Liquid Crystal Display Devices Part 2-2: Color Matrix Liquid Crystal Display Module Blank Details" Compared with GB/T 18910.22-2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

--- Deleted the relevant information of IEC Q (see Chapter 5 of the:2008 edition);

--- The integrated light source voltage is changed to the backlight source voltage, and its symbol is also modified accordingly (see Table 1 and Table 2, Chapter 6 of the:2008 edition and 7:1);

--- Add corresponding instructions before Figure 1;

--- Add long-range brightness inhomogeneity and corresponding symbols (see 7.2:4:2 in Table 3);

--- Added C12ESD content (see Chapter 6):

This document is equivalent to IEC 61747-2-2:2014 "Liquid crystal display devices Part 2-2: Color matrix liquid crystal display module blank Detailed Specifications:

A new chapter "Terms and Definitions" has been added to this document:

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 display devices:

Standard test conditions and test methods:

--- Part 6-2: Test method for liquid crystal display module reflective type: The purpose is to specify the detailed quality of reflective liquid crystal display modules Evaluation procedures, inspection requirements, screening procedures, sample requirements, and test and measurement procedure requirements:

--- Part 6-3: Liquid crystal display module test method Active liquid crystal display module motion artifacts: The purpose is to specify the transmissive film General quality assessment procedure for motion picture performance of transistor-liquid crystal display devices:

--- Part 6-4: Test methods for liquid crystal display modules Liquid crystal display modules with dynamic backlight: The purpose is to specify the Standard test conditions and test methods for optical performance and power consumption of active-matrix liquid crystal display modules:

--- Part 10-1: Environmental, durability and mechanical test methods Mechanical: The purpose is to evaluate the mechanical properties of liquid crystal display devices it is possible to determine a unified optimal test method and optimal value of stress level:

--- Part 10-2: Environmental, durability and mechanical test methods Environmental and durability: The purpose is to evaluate the performance of liquid crystal display devices:

Environmental performance, determine the unified optimal test method and stress level optimal value:

--- Part 10-3: Environmental, durability and mechanical test methods for glass strength and reliability: The purpose is to specify liquid crystal display devices Test methods for strength and reliability of glass:

--- Part 20-1: Visual inspection of monochrome liquid crystal displays: The purpose is to