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**GA**

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

**GA/T 1084-2013**

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**General specifications for display wall system used in major  
events**

大型活动用液晶彩色监视器通用规范

**(English Translation)**

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## Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GA/T 1084-2013 "General Specification for LCD Color Monitors for Large-scale Events", and is consistent with GA/T 1084-2013 in addition to editorial changes, the main technical changes are as follows.

---Modified the standard name to "General Specification for Splicing Display System for Large-scale Events";

---Deleted LCD color monitor, pixels, color gamut coverage, reproduction rate, image browsing interval, 3D noise reduction terms and definitions (see Chapter 3 of the 2013 edition);

---Added display unit terms and definitions (see 3.1.1);

---Added LCD display unit terms and definitions (see 3.1.2);

---Added LED display unit terms and definitions (see 3.1.3);

---Added DLP display unit terms and definitions (see 3.1.4);

---Modified the terms and definitions of pixel defects as defective pixel terms and definitions (see 3.1.6, 3.5 in the 2013 edition);

---Added the terms and definitions of out-of-control pixels (see 3.1.7);

--- Added the definition of flatness terms (see 3.1.9);

--- Added abbreviations for DLP, LED, and DP (see 3.2);

--- Deleted abbreviations of AQL, DVI, HDMI, MTBF, RCA, USB, VESA3D (see Chapter 4 of the 2013 edition);

--- Added system composition (see Chapter 4);

---Modified the normal use conditions (see 5.1.1, 5.1.1 of the 2013 edition);

- Modify the input image format of Table 1 (see Table 1, Table 1 of the 2013 edition);
- Modified the display format of Table 2 (see Table 2, Table 2 of the 2013 edition);
- Modified the basic functions, from the original LCD splicing display system, expanded the functional requirements of DLP, LED splicing display system (See 5.2, 5.2 of the 2013 edition);
- Modified the interface requirements (see 5.3, 5.3 in the 2013 edition);
- Modified the performance requirements, from the original LCD, expanded the performance requirements of DLP, LED and its splicing display wall (see 5.4, 2013 5.4 of the year edition);
- Modified the interference characteristics and replaced it with the current standard GB/T 9254-2008 (see 5.6.1, 5.5.1 of the 2013 edition);
- Modified the safety requirements (see 5.7, 5.6 in the 2013 edition);
- Modified the climate test (see 5.8.1, 5.7.1 in the 2013 edition);
- Modified the vibration test (see 5.8.2.2, 5.7.2.2 of the 2013 edition);
- Modified the enclosure protection requirements (see 5.8.2.3, 5.7.2.3 of the 2013 edition);
- Reliability requirements have been deleted (see 5.8 in the 2013 edition);
- Deleted the unpacking inspection requirements (see 5.9 in the 2013 edition);
- Added stability requirements (see 5.9);
- Deleted process assembly inspection requirements (see 5.10 of the 2013 edition);
- Modified the test site, and the stray illuminance was changed to less than or equal to 0.1lx (see 6.1.4, 6.1.4 in the 2013 edition);
- Deleted the pylon installation structure requirements (see 6.2.1.4 of the 2013 edition);
- Deleted the base installation structure requirements (see 6.2.1.5 of the 2013 edition);
- Deleted 3D noise reduction function, source browsing function, intelligent heat dissipation function, remote control operation function, information prompt function, working status Display function, sound setting function, key lock function, redisplay rate adjustment function (see 2013 version 6.3);
- Added basic function test, including. brightness adjustment function, color adjustment function, seam compensation function, support computer display function Function, signal synchronization control function, signal cascade extension function, window zoom function, window overlay function, display signal roaming the whole wall Function, signal preview function, signal echo function, remote monitoring function, fault alarm detection function (see 6.3, 2013 edition 6.3);

- Modified the interface test (see 6.4 in the 2013 edition);
- Modified the contrast (see 6.5.2, 6.5.2 of the 2013 edition);
- The brightness uniformity is modified (see 6.5.4, 6.5.4 in the 2013 edition);
- Modified pixel defects as defective pixels and pixel out-of-control rate (see 6.5.5, 6.5.5 in the 2013 edition);
- Deleted the redisplay rate (see 6.5.7 in the 2013 version);
- Deleted the color gamut coverage (see 6.5.8 in the 2013 version);
- Deleted the relationship between chromaticity and viewing angle (see 6.5.12 in the 2013 edition);
- Deleted the infrared remote control performance requirements (see 6.5.13 in the 2013 edition);
- Added the display mode switching time (see 6.5.19);
- Increased system synchronization (see 6.5.20);
- Increased system delay (see 6.5.21);
- Deleted the coincidence error of the images displayed on the mosaic display wall (see 6.6.10 in the 2013 version);
- Modified the interference characteristic to the radio disturbance test (see 6.7.1, 6.7.1 of the 2013 edition);
- Modified the security test (see 6.8, 6.8 in the 2013 edition);
- Added stability test (see 6.10);
- Reliability test (6.10 in the 2013 version) has been deleted;
- Deleted the unpacking inspection (6.11 in the 2013 version);
- Deleted process assembly inspection (6.12 in the 2013 edition);
- Modified the inspection rules (see Chapter 7, Chapter 7 of the 2013 edition);
- Modified the logo (see 8.1, 8.1 in the 2013 edition).

## Introduction

As a visual carrier of signal information, the splicing display system is used for on-site broadcast/live broadcast, emergency dispatch, on-site command, the control command center or display terminal for security monitoring and other tasks is developed in terms of ensuring the safety of large-scale events and improving the efficiency of dispatching and commanding.