



Conceptual model & Measuring methods of Multi-screen LCD display system

China
IEC/TC100 AGS Report

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1. The Necessity of Multi-screen LCD display system Standard **BOE**

Multi-screen LCD display system are popular used for its affluent display scope, Attracts more and more display manufactures to seize this market.

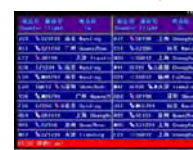
With such a huge market demand of Multi-screen LCD display system and the blank of industry standards, there is an urgent need to develop standards for the conceptual model & test methods. It can promote the products performance and market demand, and to create more economic and social benefits.



Outdoor AD Display



Huge Size Inform Display



Flight Inform Display



Video Conference Terminal



Monitoring Display Terminal



Live Monitoring Terminal

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2. The Difference Between Multi-screen system & Single Unit **BOE**

The Test Object are Different

- LCD Single Unit : focus on a single LCD product
- Multi-screen LCD display system : focus on multi-units after splicing

The Test Contents are Different

- Multi-screen LCD display system define the test items and method base on the whole terminal, also it focus on the whole terminal


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3. Multi-screen LCD display system Main Content

Conceptual Model


- Terms & Definitions
- Basic features
- Typical application
-




Full screen display



Single screen display



Combined screen display



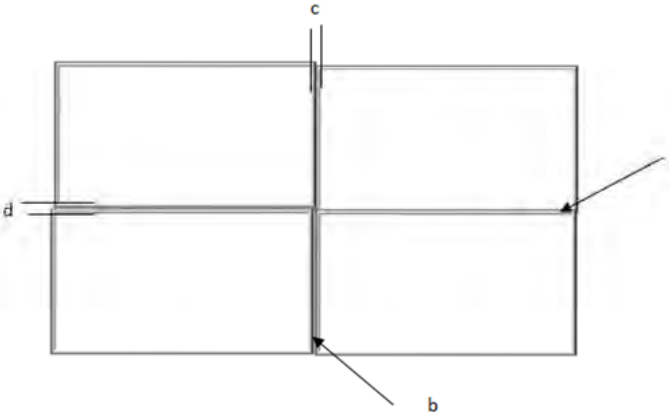
Roam display

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3. Multi-screen LCD display system Main Content


Measuring Methods : Gap(physical, optical)--- Detail splicing precision

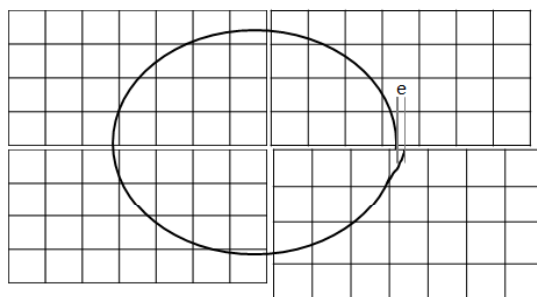


Comment: a, b represent the Physical gap c, d represent the optical gap

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3. Multi-screen LCD display system Standard Main Content **BOE**

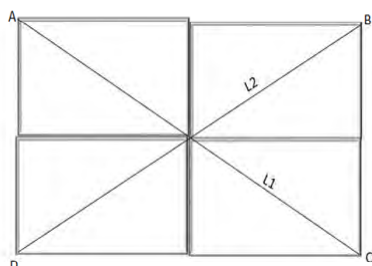
 **Measuring Methods** : Image dislocation—Picture display accuracy of Multi-screen LCD display system



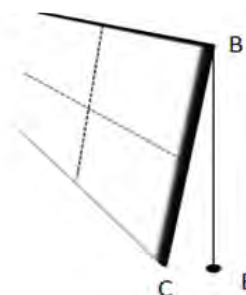
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3. Multi-screen LCD display system Standard Main Content **BOE**

 **Measuring Methods** : installation tolerance---The flatness of terminal in surface and vertical direction



Surface flatness

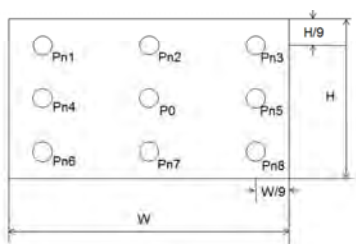


Vertical flatness

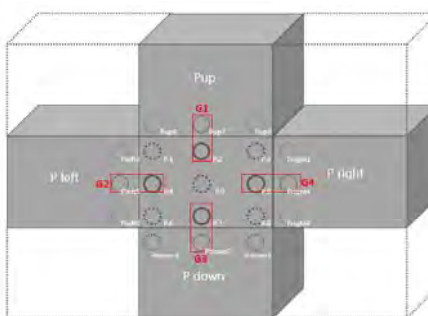
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3. Multi-screen LCD display system Standard Main Content **BOE**

Measuring Methods : brightness uniformity--- Adjacent units brightness uniformity



Single unit brightness uniformity



Adjacent unit brightness uniformity

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4. Multi-screen LCD display system test items list **BOE**

Mechanical items :

- . Physical gap
- . Optical gap
- . Image dislocation
- . Installation tolerance
-

Optical items :

- . Single unit brightness uniformity
- . Adjacent units brightness uniformity
- . Single unit color uniformity
- . Adjacent units color uniformity

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5. Next Plan

BOE

- **Improve the NP of Multi-screen LCD display system**
 - . Project 1 - Conceptual Model
 - . Project 2 - Measuring Methods
- **Call for Experts and Supporter (NC)** to join us, together we make the standards of "Multi-screen LCD display system" better
- **Improve the working draft** and the new version will be released next meeting

PLEASE SUPPORT US AND JOIN US

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END

BOE

THANKS

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