

LCD Splicing Terminal Test Methods

China
IEC/TC100 Discussion

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1. The Necessity of LCD Splicing Terminal Standard

LCD splicing terminal are popular used in multi-screen for its affluent display scope, Attracts more and more display manufactures to seize this market.

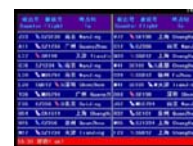
With such a huge market demand of LCD splicing terminal and the blank of industry standards, there is an urgent need to develop a standard for the test methods. It can promote the products performance and market demand, and to create more economic and social benefits.



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 Splicing Terminal & Single Unit

The Test Object are Different

- LCD Single Unit : focus on a single LCD product
- LCD Splicing Terminal : focus on multi units after splicing

The Test Contents are Different


- LCD splicing terminal define the test items and method base on the whole terminal

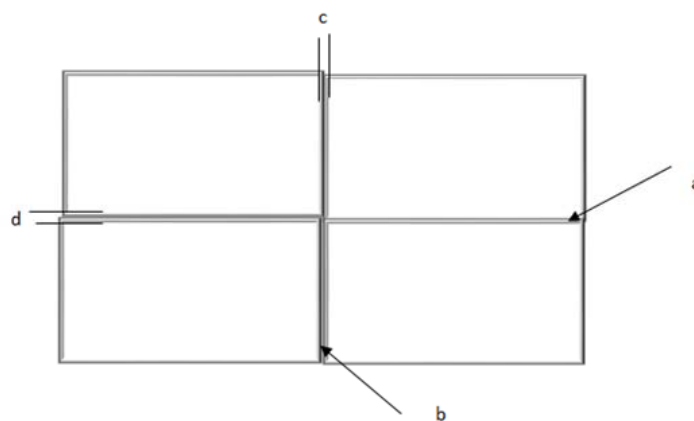
This standard mainly include:

- Mechanical test
- Optical test

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3. LCD Splicing Terminal Standard Main Content


 Gap(physical, optical)--- Detail splicing precision

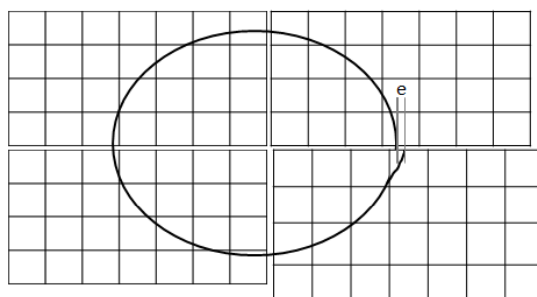


Comment: a, b represent the Physical gap c, d represent the optical gap

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3. LCD Splicing Terminal Standard Main Content

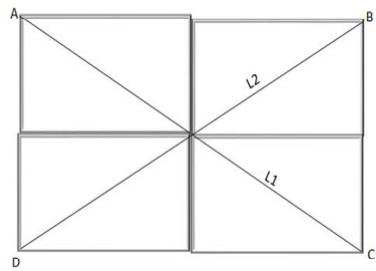
 Image dislocation—Picture display accuracy of LCD splicing terminal



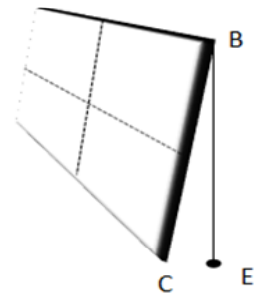
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3. LCD Splicing Terminal Standard Main Content

 LCD splicing terminal installation tolerance---The flatness of terminal in surface and vertical direction




Surface flatness

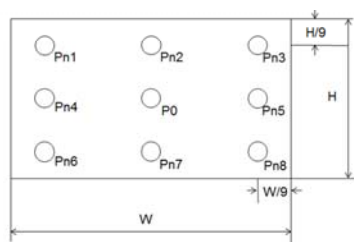


Vertical flatness

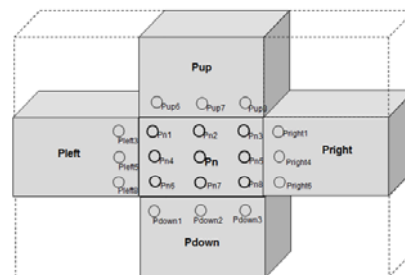
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3. LCD Splicing Terminal Standard Main Content

 brightness uniformity--- LCD splicing terminal overall brightness feature



Single unit brightness uniformity



Adjacent unit brightness uniformity

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4. LCD splicing terminal test items list

Mechanical items :

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

Optical items :

- Single unit brightness uniformity
- Adjacent unit brightness uniformity
-

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END

THANKS

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