

Dicolor Die-Aluminium rental screen

Presentation & introduction

 德彩光电 www.dicolor.cn

Catalogue

- Product advantage
- Product structure
- System topological graph
- Hoisting rental screen
- Assembling rental screen
- Rental accessories
- Application cases



What is exactly the advantage of
Die-aluminium cabinet ?

Weakness of common cabinet	Advantage of die - aluminium cabinet
High weight, big volume, high cost for transportation	Cabinet is light and thin , only 48kg/m ²
Heavy cabinet make hard the transport and installation	Cabinet weight is 12.5Kg/PCS
Thick outer package	Packed by flight case , 6PCS/cabinet,much room saved
Low installing efficiency	Fast assembling structure , finished by one stuff , 10S/PCS
Lots of tools needed while installing	100 % assembled by hands , without any tools .
Flatness, boundary effect is hard to control	Shaped by dying, tight connectors , flatness is within 0.2mm
Emergency disposal is not easy	Any cabinet within the screen is free of assembling and disassembling

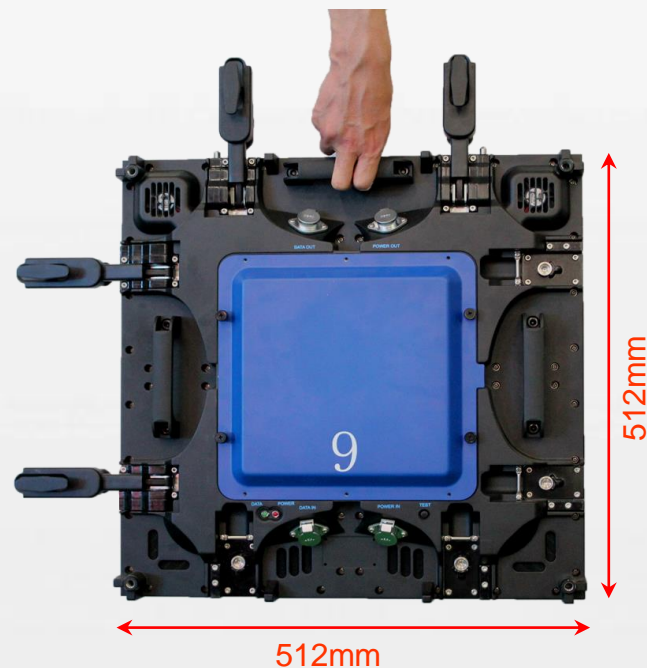
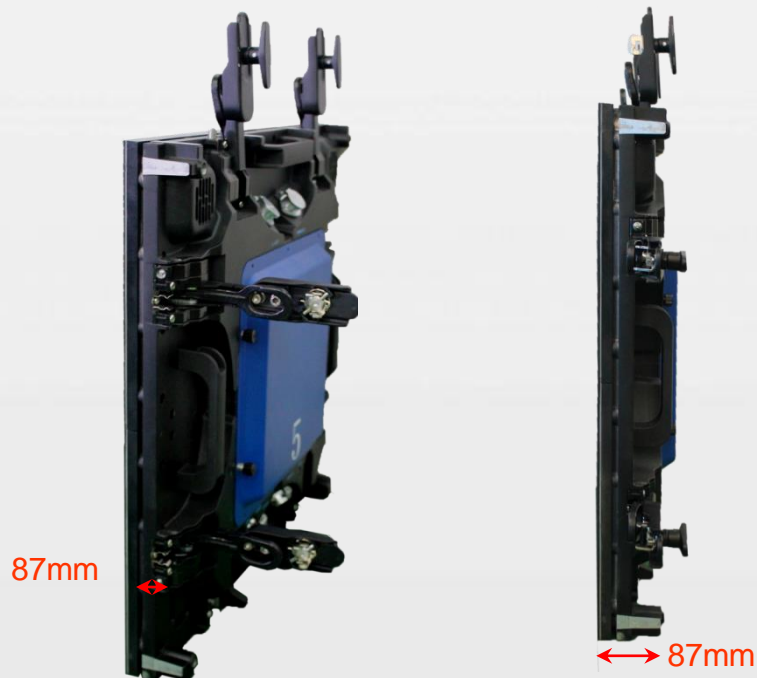
Product advantage introduction

- **Light** : Cabinet size 512mm×512mm, just 12.5kg in weight comparing to 25 kgs of common cabinet
- **Thin** : It is Die-aluminium cabinet , thus it is featured by high strength and toughness and precision and hard to be deformed .it is 87mm in thickness as a whole and the thinnest point is just 36mm comparing to the 160mm of common cabinet.
- **Fast** : There is fast locking device in the four corners , It takes only 10 second to assemble one cabinet by pushing the handle 90 degrees ,up ,down ,left and right .it is really fast and precise assembling
- **Easy** : The cabinet is modular designed, , any cabinet of the screen is free of assembling and disassembling .
- **Compatible** : New structure design satisfy the hoisting assembling and pile-up assembling .P4、 P5.33、 P6.4、 P8、 P10.66、 P12.8、 P16 modules are compatible with each other .
- **Low** : Excellent heat dissipation design ,no fans and air conditioning are required .

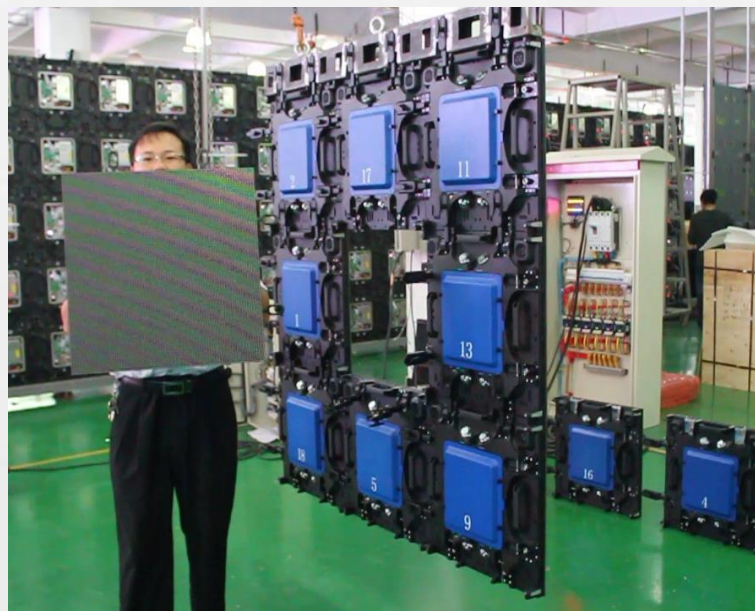
Product advantage introduction

Light and thin

- 12.5Kg/PCS , 48Kg/sqm
- cabinet size : $512\text{mm} \times 512\text{mm} = 0.26\text{m}^2$
- module size : $256\text{mm} \times 256\text{mm}$
- cabinet thickness : 87mm best of all is 36mm



Product advantage introduction



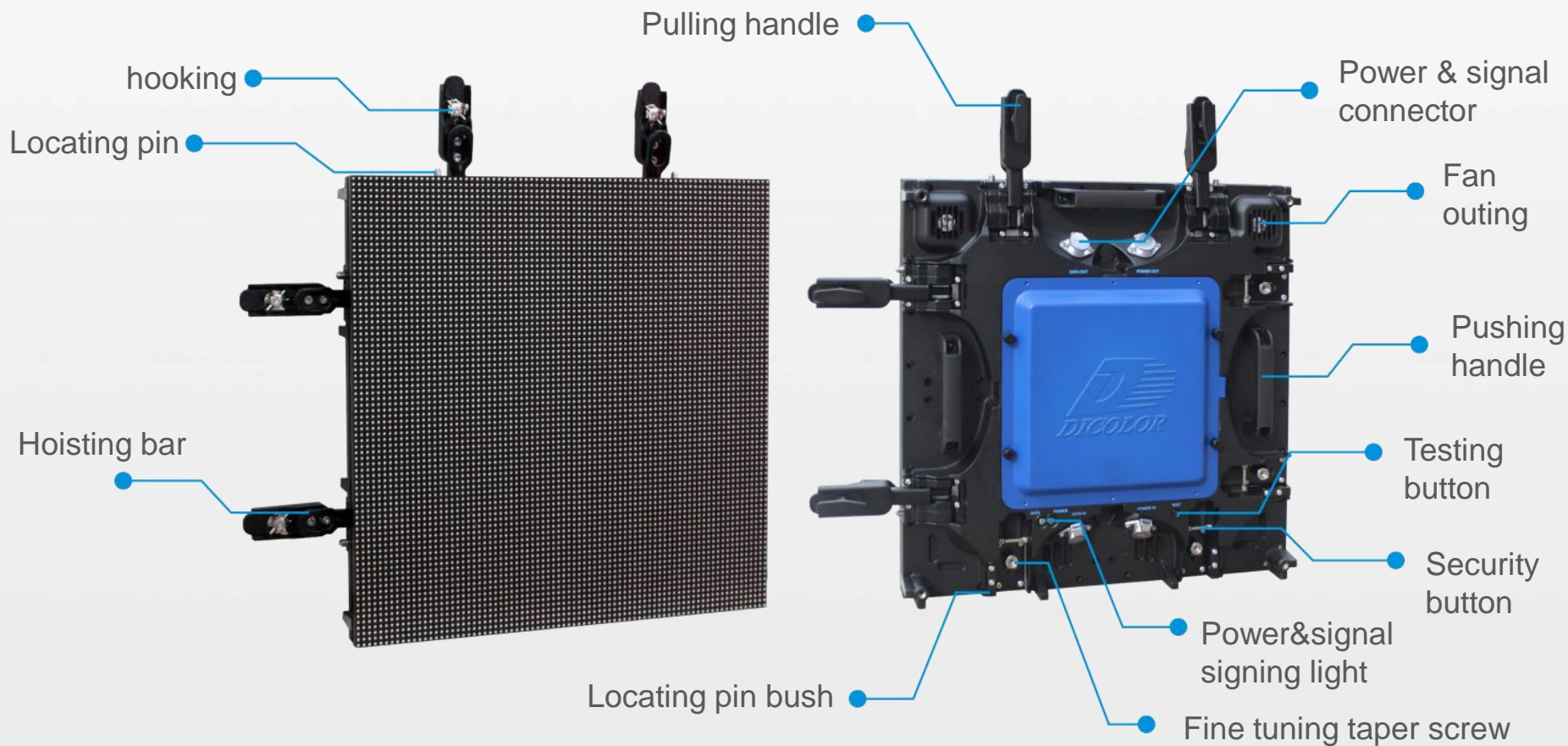
Cabinets of the screen is free of assembling and disassembling

Sheet for compatible pixels

Pixel/mm	Module size/mm	Module resolution	Pixel density/m ²	Scanning	Brightness/m ²	Application
4	256×256	64×64	62500	1/8	1500	indoor
5.33	256×256	48×48	35200	1/8	1600	indoor
6.4	256×256	40×40	24414	1/8	1800	indoor
10.66	256×256	24×24	8800	1/4	6000	outdoor
12.8	256×256	20×20	6103	1/4	4500	outdoor
16	256×256	16×16	3906	static	6000	outdoor

Product structure introduction

Cabinet structure



Cabinet accessories introduction

Items	Function
hooking	Connecting the security button
Pulling handle	Locking and unlocking the relative connector
Hoisting bar	Core connector, connected with Fine tuning taper screw
Locating pin	For locating the position while assembling
Locating pin bush	Gnawing together with Locating pin
Fan outing	Fans' dissipation
Testing button	Testing the power
Pushing handle	Make the carrying of cabinet easy
Fine tuning taper screw	Closely connected with the hoisting bar ,adjusting the assembling flatness
Security button	Locking the connectors
Power & signal connector	Connecting the power and signal cables
Power & signal signing light	Show Working status

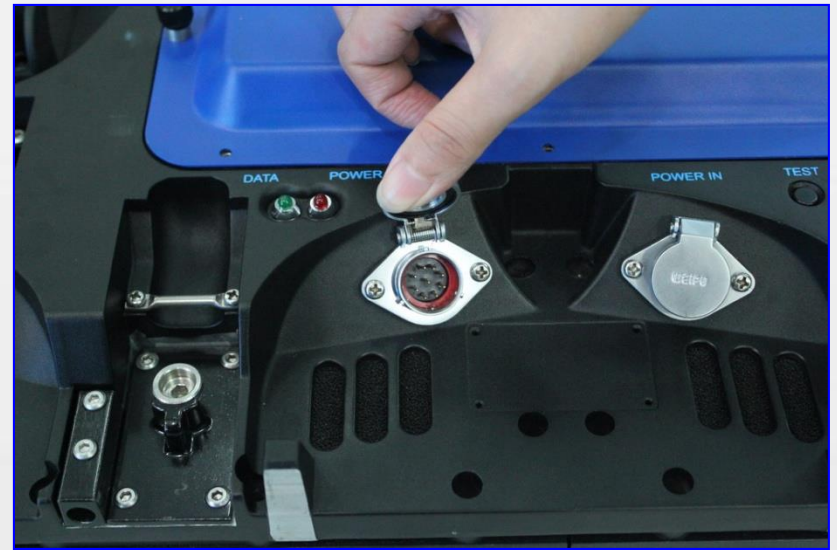
Product structure introduction

Aviation socket

Don' t connect these two connectors by heavy force.



Power aviation socket



Signal aviation socket

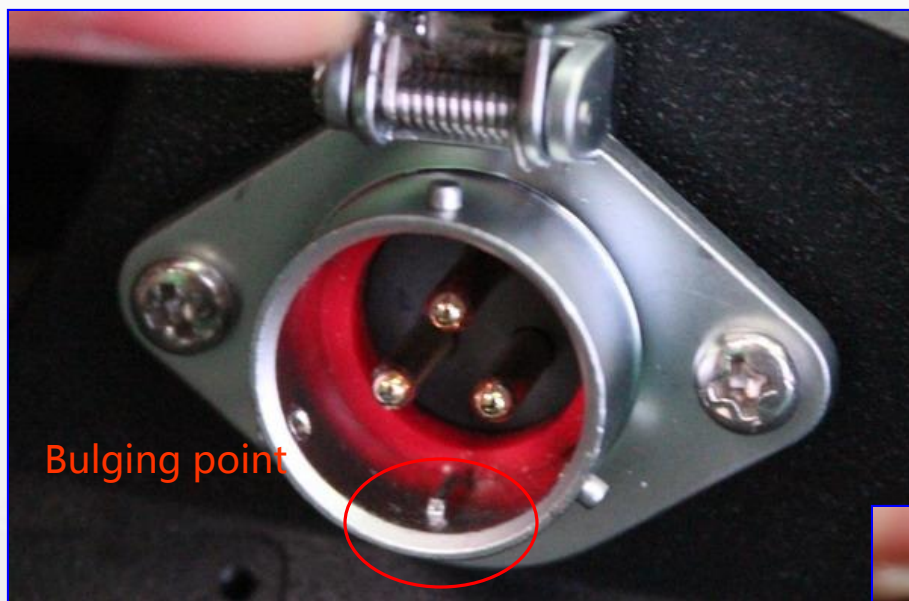
Product structure introduction



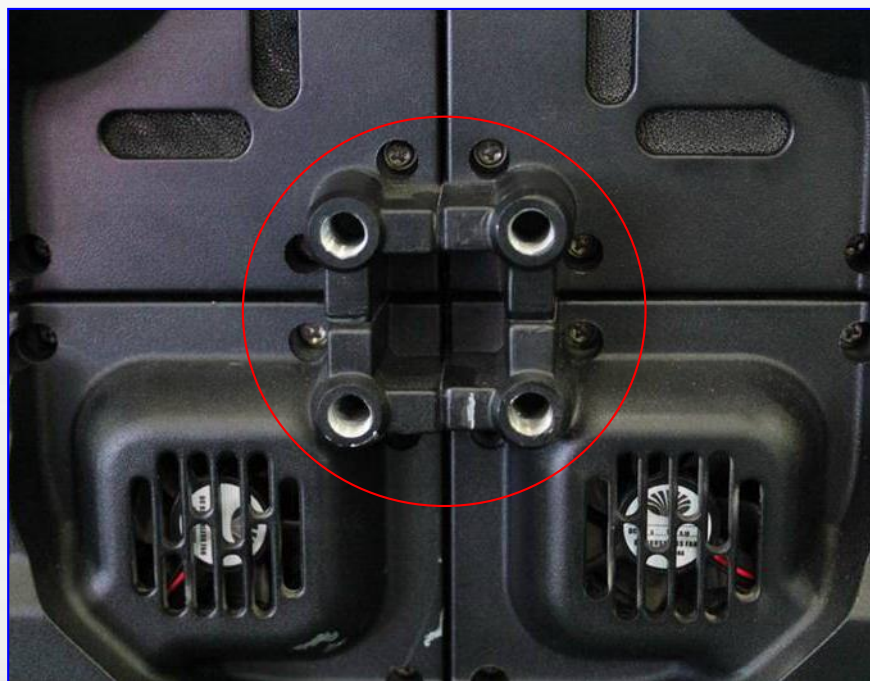
Materials for connecting the cabinets

Starting from the left : 9pin long aviation signal cable, 3 pin aviation power cable、 9pin aviation signal cable

Product structure introduction



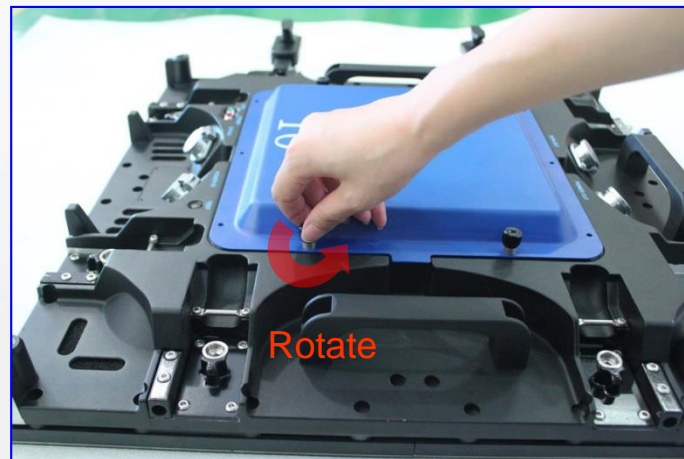
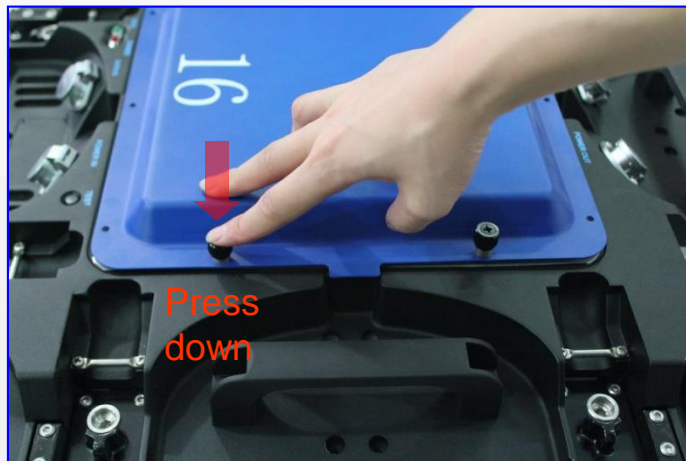
Product structure introduction



Fixing screw hole site

For big size screen project , we need to connect the screen to the backside supporting structure through this screw hole site.

Product structure introduction

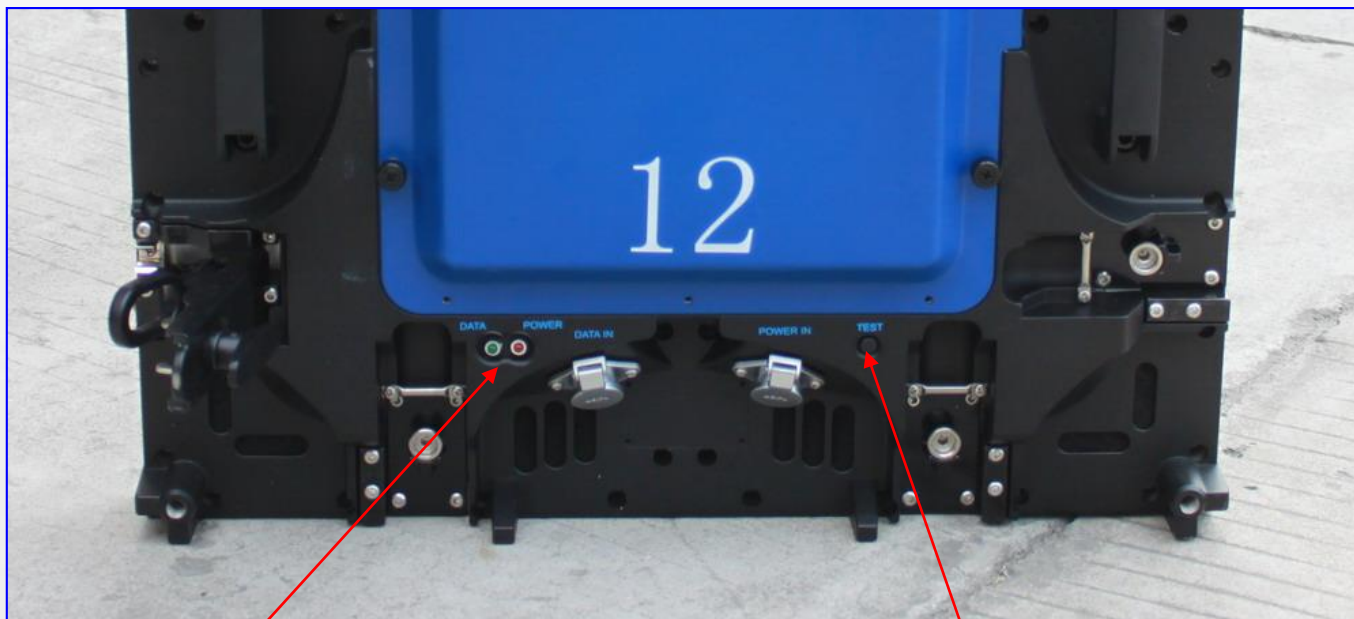


Maintaining within the cabinet

In case something is wrong with the cabinet , loose the 4 screws by hands.



Product structure introduction




Working

Green light flicker show the signal is well
Red light flicker shows the power is well

Cabinet displaying

Press "Testing" button to check the cabinet working.

Product testing report---quality guaranteed



测试报告 报告号: SZML111107341 日期: 2011 年 12 月 06 日 第2页, 共3页

1. 插拔疲劳测试 (根据客户要求):

1.1 测试条件:

测试次数: 5000 次

1.2 测试样品:

样品编号: NEUTRIK 网络连接器

样品数量: 共 1 件

1.3 测试要求:

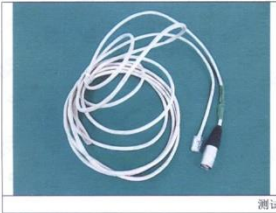
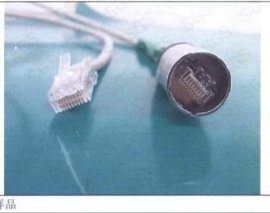
1.3.1 在测试后连通样品, 显示屏可影像。

1.4 测试结果:

样品编号	测试结果
NEUTRIK 网络连接器	测试后连通样品, 显示屏能显示影像。 测试中有一金属片脱落 (在第 3356 次)。

备注: 此测试报告是报告编号 SZML111107342 的中文译本, 中英文版本如有歧义, 概以英文版为准。

1.5 测试照片:

测试样品
*****持续*****

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SZML 029167

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NEUTRIK signal connector testing



测试报告 报告号: SZML111107343 日期: 2011 年 12 月 06 日 第2页, 共3页

1. 插拔疲劳测试 (根据客户要求):

1.1 测试条件:

测试次数: 5000 次

1.2 测试样品:

样品编号: NEUTRIK 电源连接器

样品数量: 共 1 件

1.3 测试要求:

1.3.1 在测试后连通样品, 显示屏可影像。

1.4 测试结果:

样品编号	测试结果
NEUTRIK 电源连接器	测试后连通样品, 显示屏能显示影像。 测试中连接头松脱 (在第 3223 次)。

备注: 此测试报告是报告编号 SZML111107344 的中文译本, 中英文版本如有歧义, 概以英文版为准。

1.5 测试照片:




测试样品
*****持续*****

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Member of the SGS Group (SGS SA)

NEUTRIK power connector testing

Product testing report---quality guaranteed



深圳市计量质量检测研究院

检验报告

编号: WT115006024

第 1 页, 共 2 页

样品信息	样品名称	压铸铝箱
	商 标	深德彩
	型号规格等级	512×512mm吊装箱体
	样品编号批号	-----
生产单位	生 产 单 位	深圳市德彩光电有限公司
	生产单位地址	深圳市宝安区福永镇新和永和路德彩光电工业园
	抽 样 基 数	-----
	样 品 数 量	2pcs
客户信息	抽 样 地 点	-----
	抽 样 人 员	-----
	检前样品描述	正常
	委托单位	深圳市德彩光电有限公司
检验信息	委托单位地址	深圳市宝安区福永镇新和永和路德彩光电工业园
	委托单位电话	15361452443
	受 检 单 位	-----
	委 托 日 期	2011-10-19
检验结论附注	申 请 单 号	5407708
	检 验 类 别	送样检验
	获 样 方 式	送样
	检 验 依 据	委托方技术要求
检验环境条件		(22~23) °C (54~55) %RH
检验结果见附页。		
批准人		何益壮(部门主任)
签 名		
		2011 年 10 月 19 日



深圳市计量质量检测研究院

检验结果

编号: WT115006024

第 2 页, 共 2 页

测试项目	委托方技术要求	实测结果
拉力测试	试验速度5mm/min, 测试样品的破坏力。	1#: 30729N 2#: 30359N
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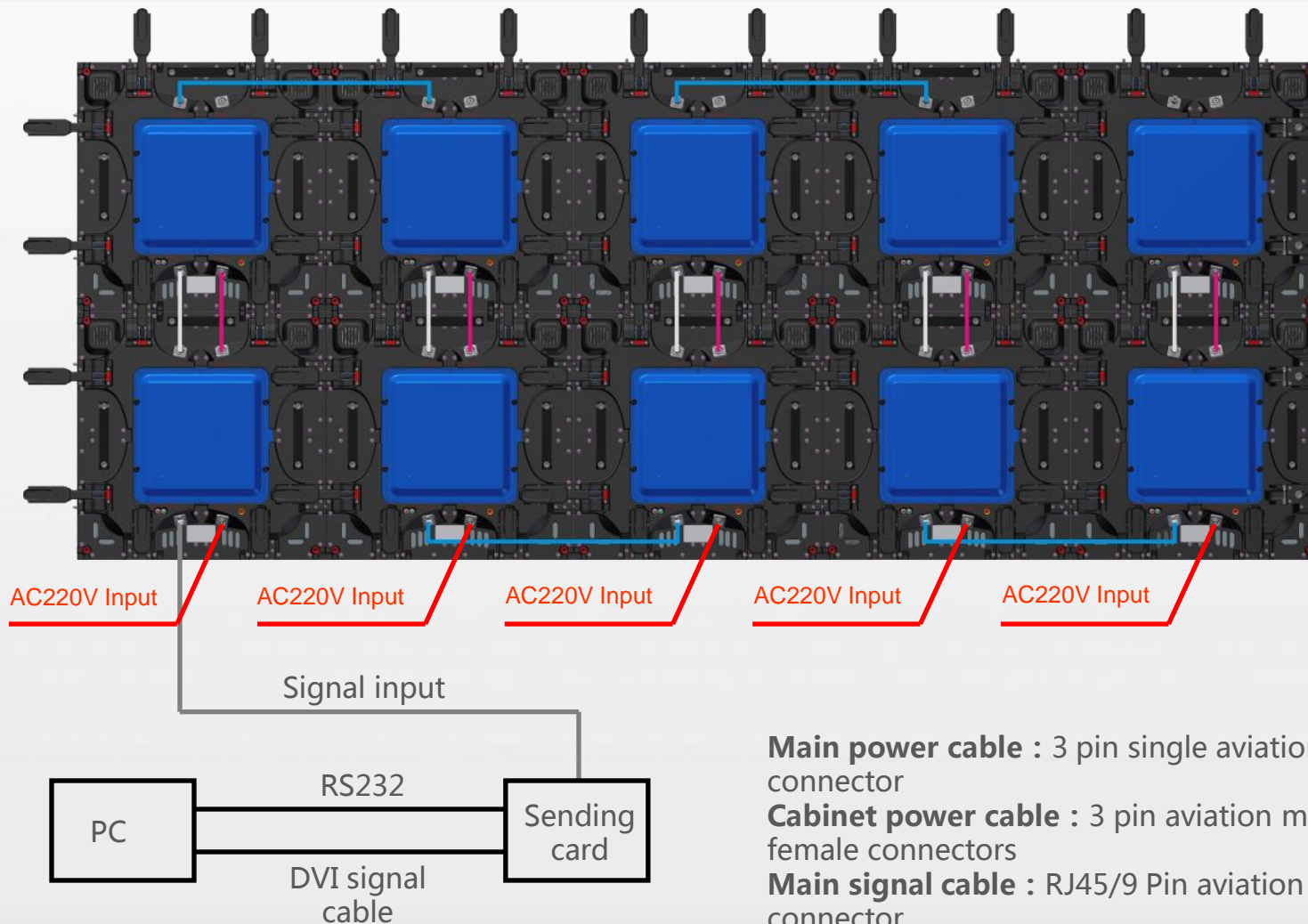
(1)

主检: 王通

审核: 杨鸿军

Tensile force testing report

System topological graph



Main power cable : 3 pin single aviation female connector

Cabinet power cable : 3 pin aviation male and female connectors

Main signal cable : RJ45/9 Pin aviation female connector

Cabinet signal cable : 9 pin aviation male and female connectors , H is blue , V is grey

Hoisting rental screen

Hoisting rental screen

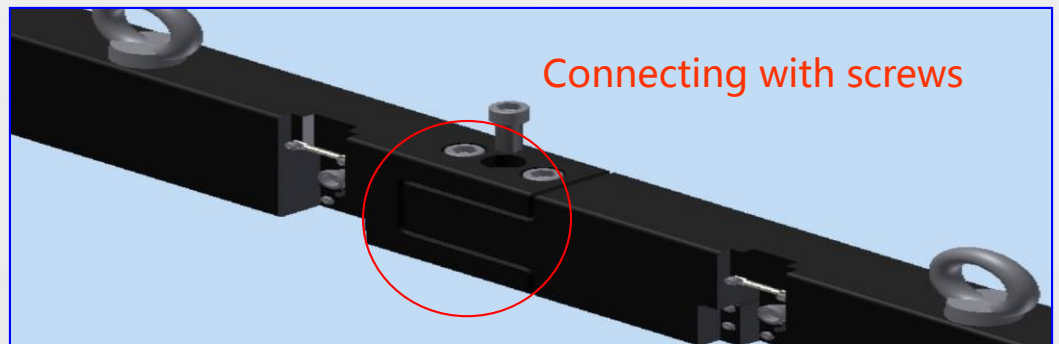
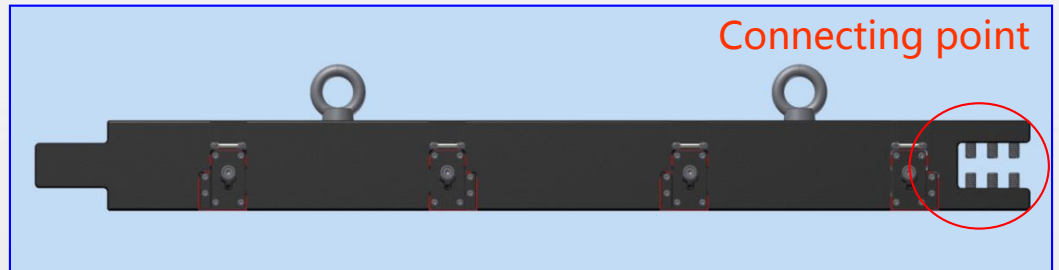
1、 Build the girder

Build the girder with required height and width.



2、 Connect the hoisting grain

Connecting the hoisting grains with screws



Hoisting rental screen

3、connect the girder and hoisting grain

Use motor hoist to adjust the height

4、the connection between fist line of cabinets and hoisting grain

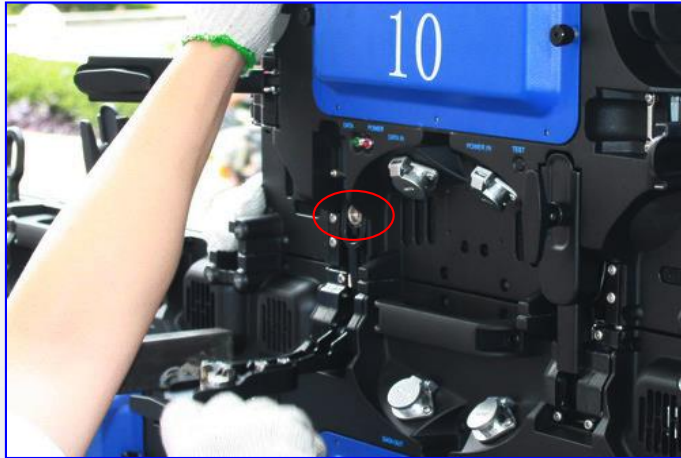
The same as the next step 5 .



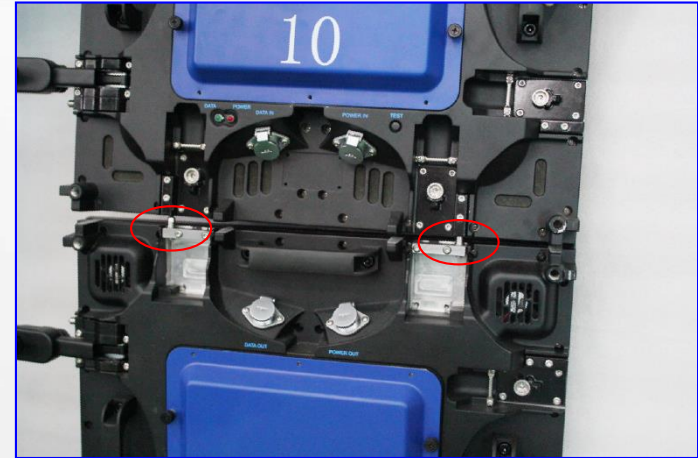
5、Up and down connecting ..

See the following graph :

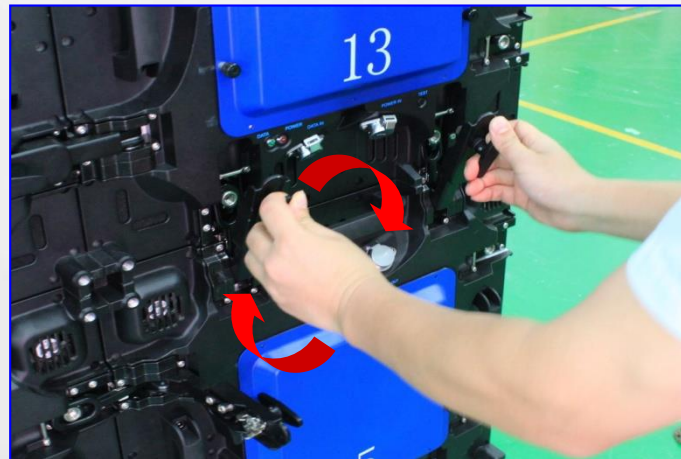
Hoisting rental screen



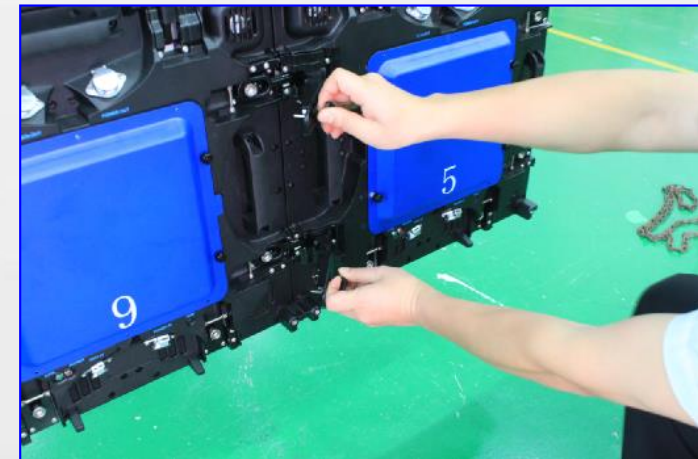
A. Hole site of hoisting bar match the taper screw of the above line of cabinet.



B. Aligning the locating pin and locating hole.

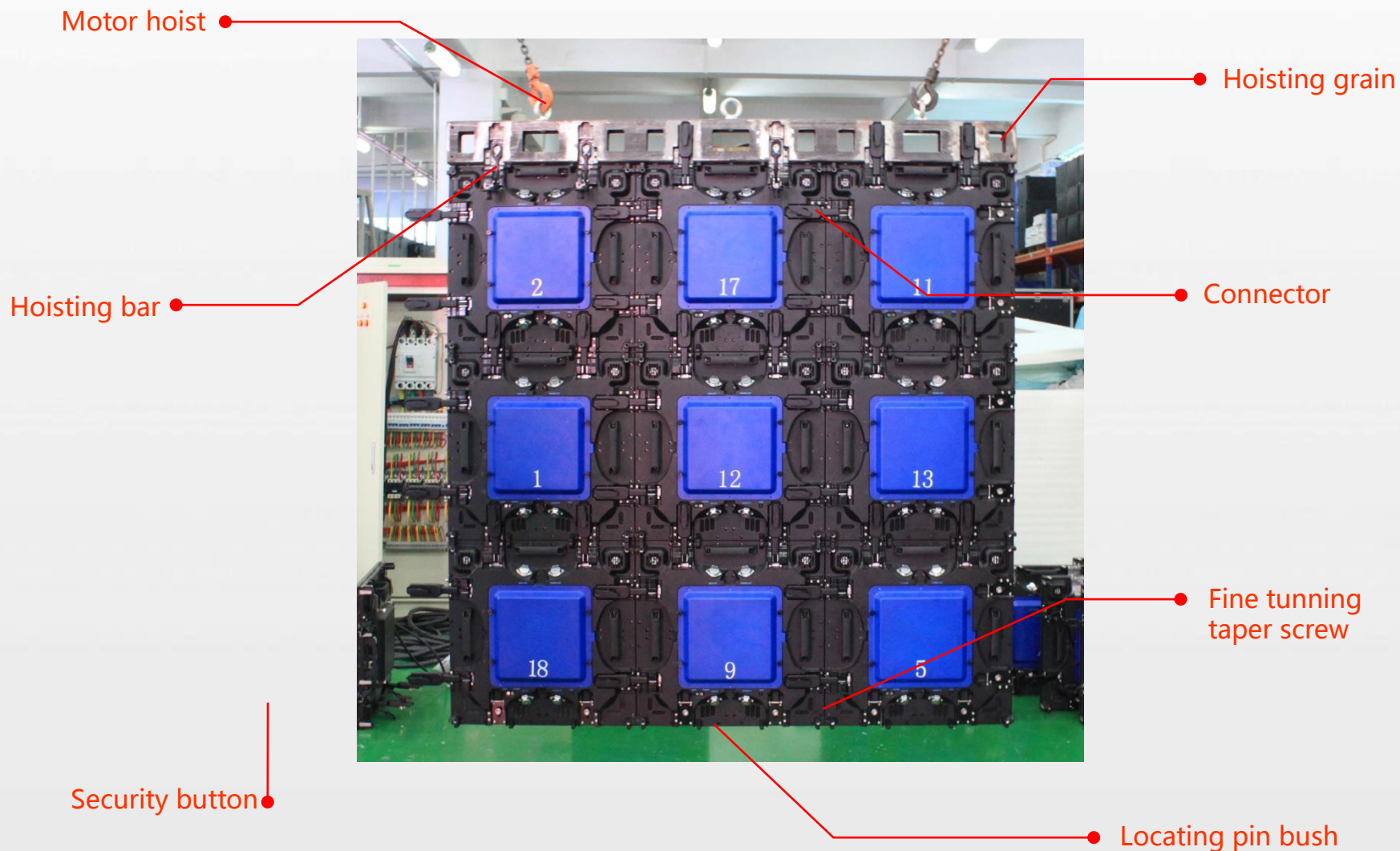


C. Rotate the connecting bar clockwise, press frontward to hook up the security button .then loose your hand.



D. After fixing the up and down ,then comes to the left and right . Then comes to the assembling of next cabinet.

The screen effect as a whole

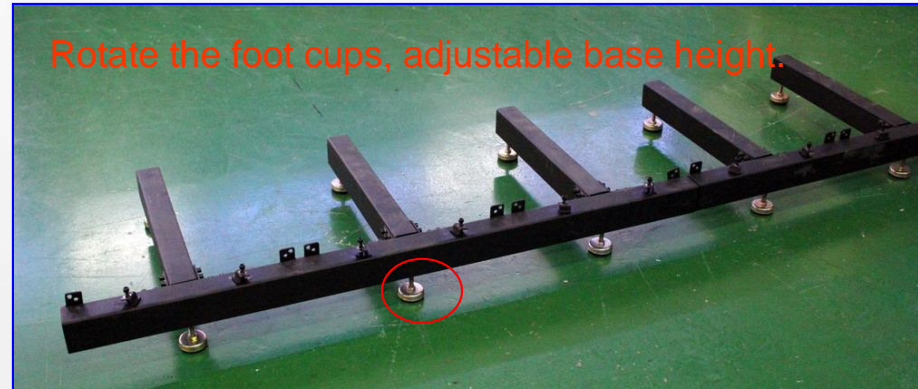


Assembling rental screen

Assembling rental screen

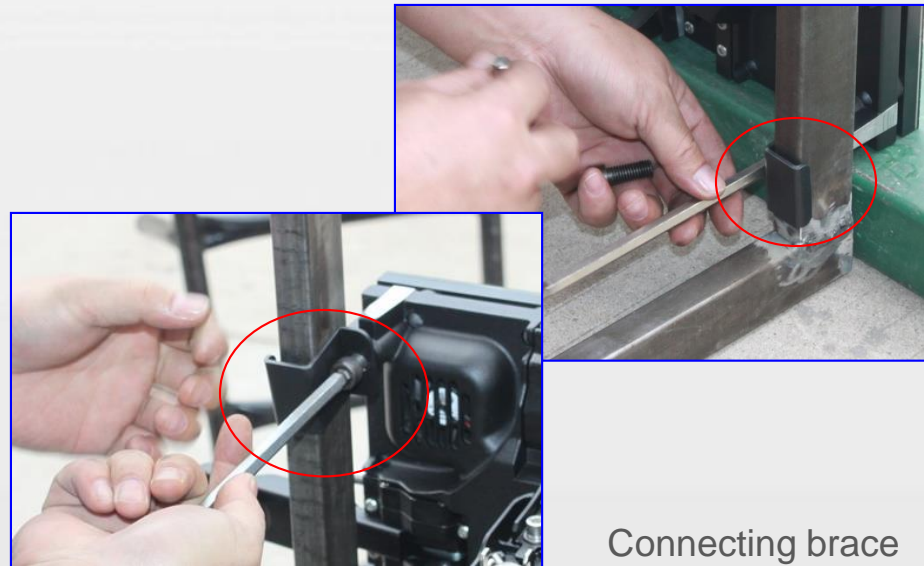
1、 set up the U bar

Set up the U bar on the ground ,
adjust to the same height.



2、 fix the cabinet

Connecting brace fix the cabinet
on the steel frame.

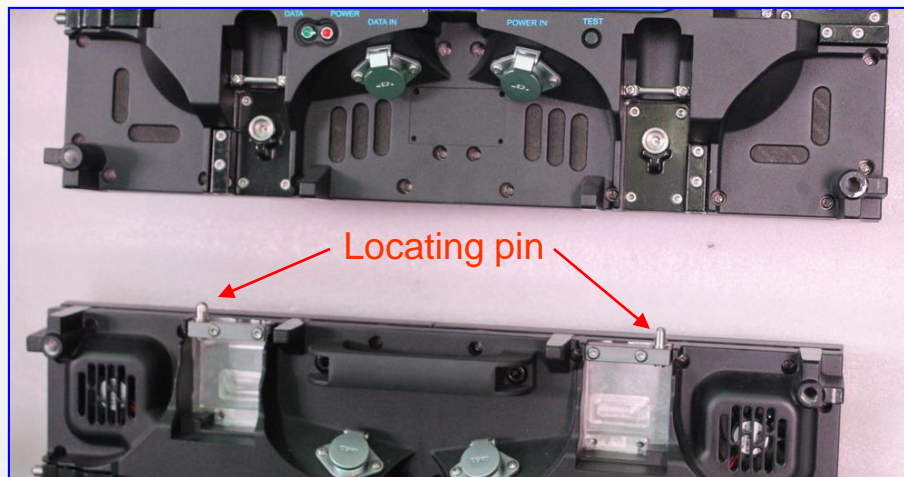


Connecting brace

Assembling rental screen

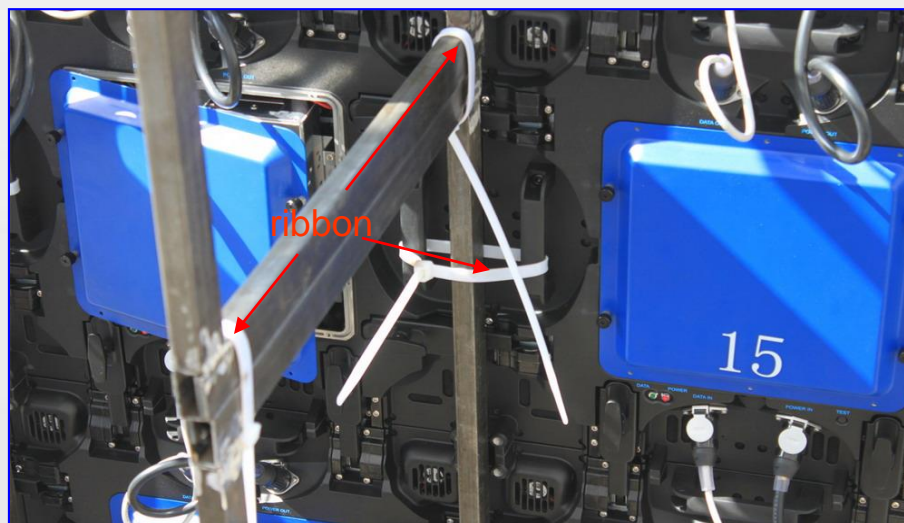
3、 up and down connecting

Use locating pin to connect.



4、 steel frame connecting

Use locating pin to connect the steel frame ,fastened with ribbon.

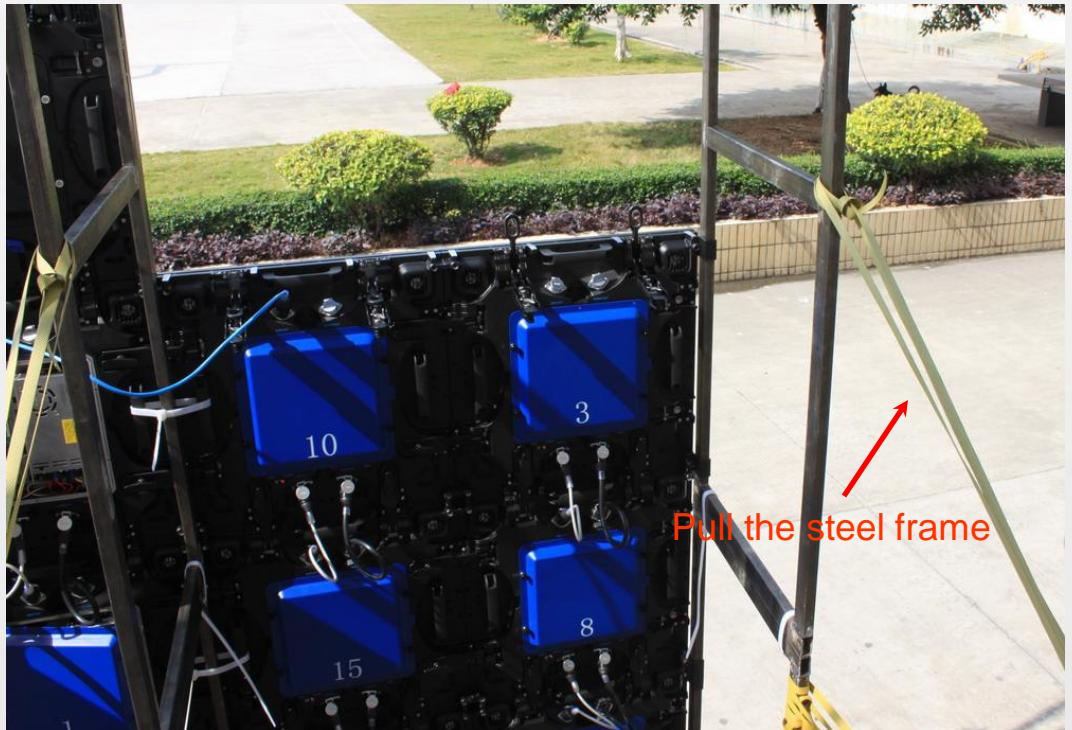


Assembling rental screen

5、 full screen assembling

The assembling of cabinets ,please see the step 24 above.

Use steel rope to pull the steel frame when each 2 lines cabinets are assembled , in case of falling forward.



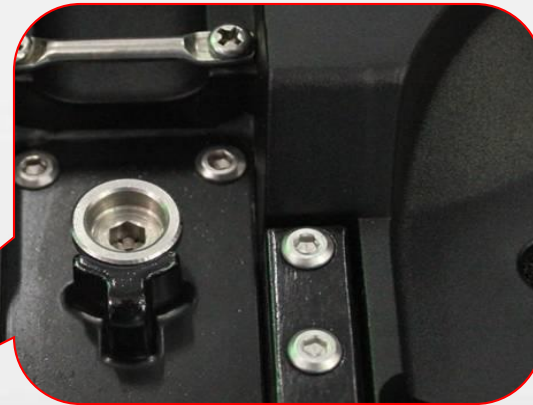
Assembling rental screen effect as a whole



Notes for both Hoisting and assembling rental screens

Notes while assembling

1. Cabinets cant be dislocated , adjust the flatness to be within 0.2mm.
2. Control the gap between cabinets , adjust the taper screw as the following picture.



Use inner hexagon spanner
to adjust the screw
Clockwise to fasten ,anti-
clockwise to loose

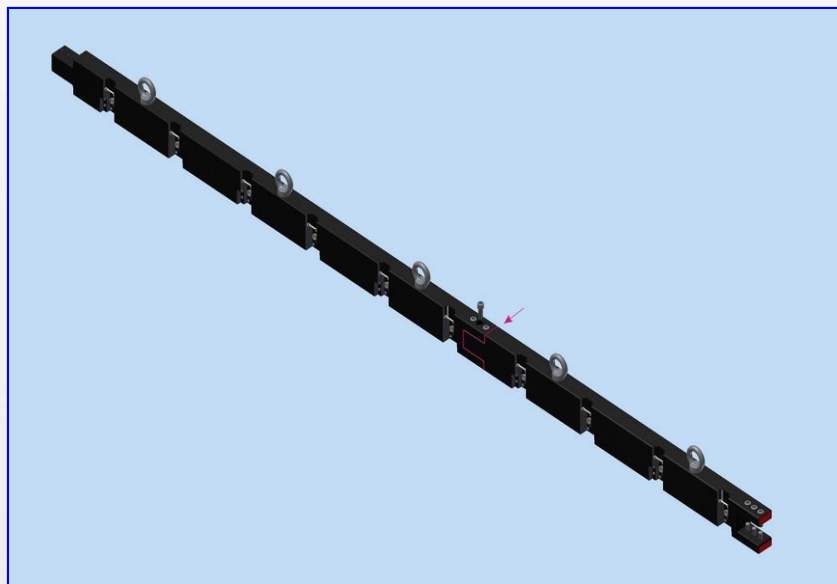
Accessories for rental screen

Accessory——Hooking tackle block



Hooking tackle block ,also named motor hoist ,both hand-operated and electrical – operated versions available ,it is composed of a few fixed and movable tackle ,they will make the screen assembling much more efficient and convenient.

Accessory——Hoisting grain and ground grain



Hoisting grain--- for hoisting the screen ,
there are two specifications:

- A. 2 cabinets (512mm×2)
- B. 3 cabinets (512mm×3)



Ground grain- for assembling the screen
there are two specifications:

- A. 2 cabinets (512mm×2)
- B. 3 cabinets (512mm×3)

Accessory——Girder



For hoisting and supporting the screen body , it is a necessity for hoisting rental screen.

Accessory——steel frame



For supporting the screen body in case the screen fall frontward under gravity, single steel frame is 2 times higher than single.

Cabinet 512mm×3=1536mm

Accessory——portable power distribution cabinet



Portable power distribution is designed to distribute the power to each loading unit , it will offer power-off protection when short circuit ,overloading and leakage of electricity happen. It is power supply for LED screen body ,with AC380V input and AC 220V output, air-switch control, together with power indicating light.

Accessory——mobile equipment cabinet



Mobile equipment cabinet integrate various video and voice equipment. Its lightness and flexibility enable itself to be used for rental purpose.

Accessory——Flight case



One flight case can hold 6 cabinets. With excellent and practical up-cover design .

Application case



Opening ceremony of the 14th Shantou acoustics exhibition in 2012

Thanks for your time