Video Banner Manual

CATALOG

Section 1: Product Overview

This product is a new type of display screen designed by talentech with small pixel pitch 2.571mm， with features light weight, thinness, fine flatness, high precision machining, strong mechanical structure.

Unit size：1990mm×622mm×35mm

Figure1.Front view

Figure2. Back view Figure3. Side view

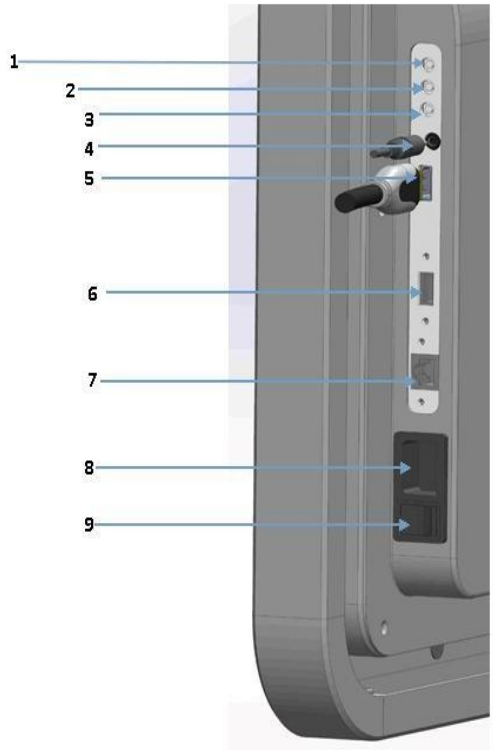


Figure4.left side view

1 **Add brightness:** Increase brightness

2 **Mode button:** Switch Synchronous and Asynchronous

3 **Subtract brightness:** Decrease brightness

4 **Audio output jack**: Connect to external sound systems 5 **HDMI port**: Connect to devices with HDMI input such as a computer 6 **USB port**: Connects to USB devices.

7 **RJ-45 Port**: This port connects the mirror to a computer

8 **AC power adapter jack**: Connect the AC power adapter here

9 **Power button**： Press this button to turn on the mirror

Section 2 Product Features

2.1 Slim design

Not like traditional cabinet with many and long messy wires inside, Xposter has the short wires which are completely connected inside the die-casting back cover, without any wires outside the LED cabinet. That makes the production process and assembling more convenient, and many components can be assembled in the limited space. Also,it facilitates the maintenance or replacement for module and distribution box, and the components inside module and distribution box.

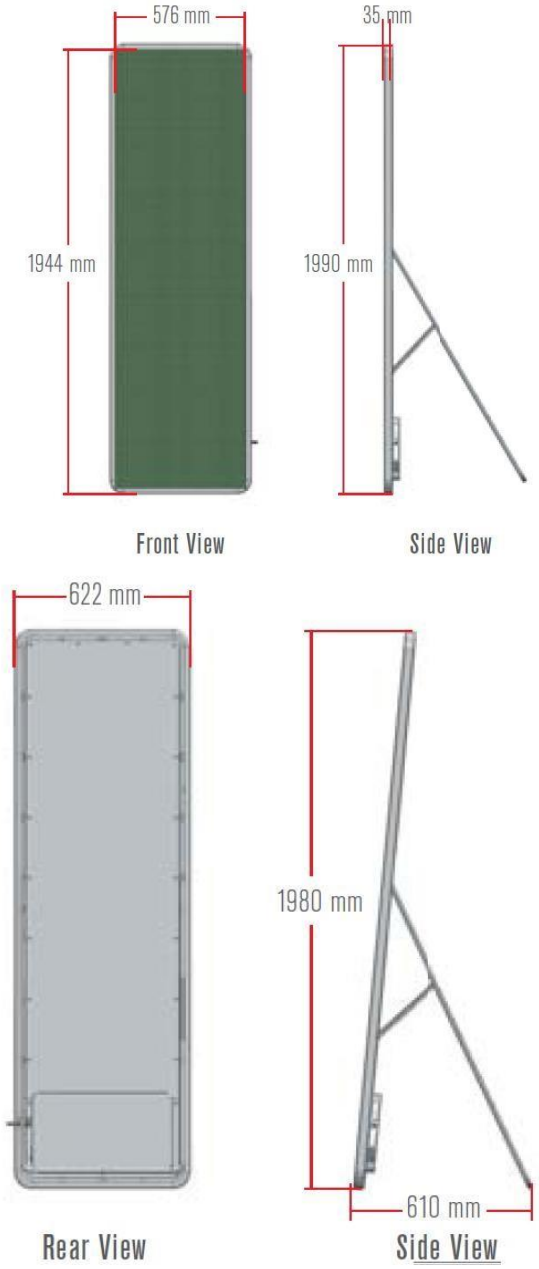


Figure 5

2.2 Seamless combination and adjustable gap

The gap between the two modules can be adjusted slightly, no dark line and bright line.

Metal structure with precision machining, not only durable, but also realize high-quality seamless combination effect, and ensure the uniform display effect.

2.3 No Traditional flat signal cable between modules,which to reduce a lot failures

The tradtional LED displays usually use many flat signal cables between modules to reduce the cost,however to some extent,it will make higher failure rate and not simple outlook. Different from them,this Xposter uses more stable RJ45 cables between modules,which owns better outlook and reduce the failure rate a lot.

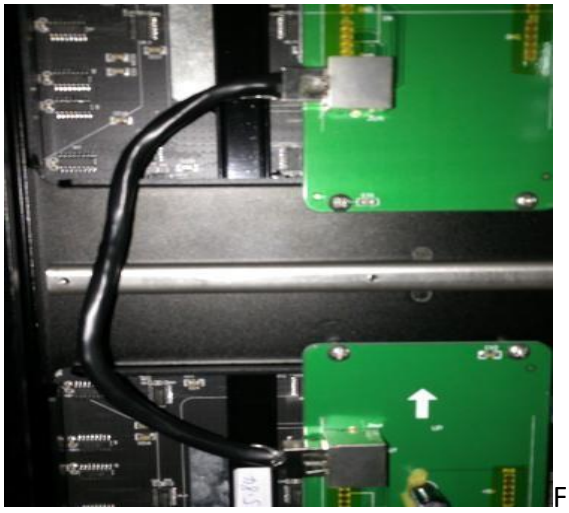


Figure8 Figure 6

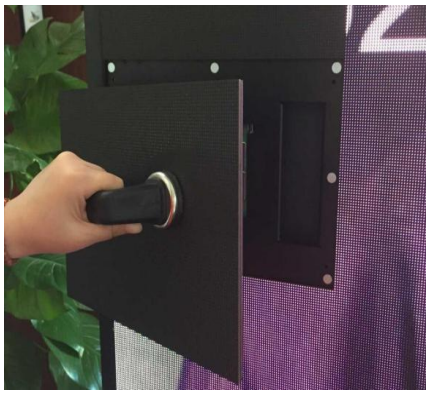


Figure 7

2.4 Front maintenance design

Module designed without screws， instead with fixed magnets

2.5 Multiple mounting methods

floor standing Wall hanging

(Please refer to chapter 4： Installation guide)

2.6 Excellent cooling design

Energy saving design on module PCB and use energy saving high performance driver IC

No fan cooling system with high efficiency power supply without noises

2.7 High-end performance and display quality

Uniform high-definition display effect, no color shift, no stain, no color lump

High grey level at low brightness: when the brightness decrease to 20%, it still perform whole grey levels, and show excellent quality.

Unique technology successfully resolve the problem of first dark line, show better quality.
SMD black LED with wide viewing angle – 135 degree, meet customer's requirement to the utmost.

High contrast: black LED and black mask create higher color contrast, better display effect.

Higher brightness than LCD and DLP projection, and can automatically adjust brightness.

High refresh rate and gray scale, stable display, no flicker, the display effect is more natural.
Lower power consumption

2.8 Application

Video conference center, information center, demonstration center, studio centers, Television centers, auto show, product launch events, broadcast television, high-level meetings, theaters, shopping malls, hotels, stores, etc

Used both fixed installation and rental lifting, provide high quality services on information dissemination, branding spread and advertising effect.

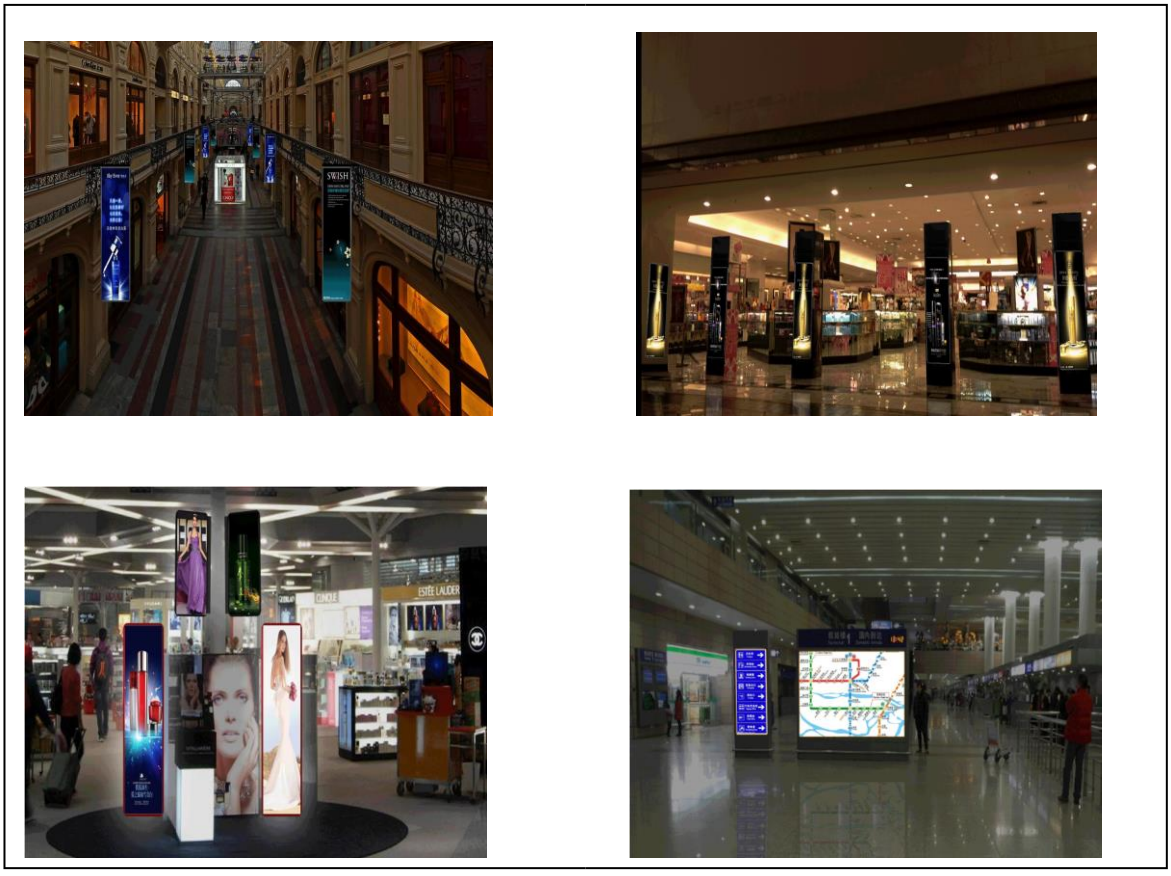


Figure5

Section 3 Detailed Introduction about Product Mechanical Design and

Electronic Parts

3.1 Overall structure (assembly drawing)

Product mainly includes four parts: module, box, Power supply module,control system.

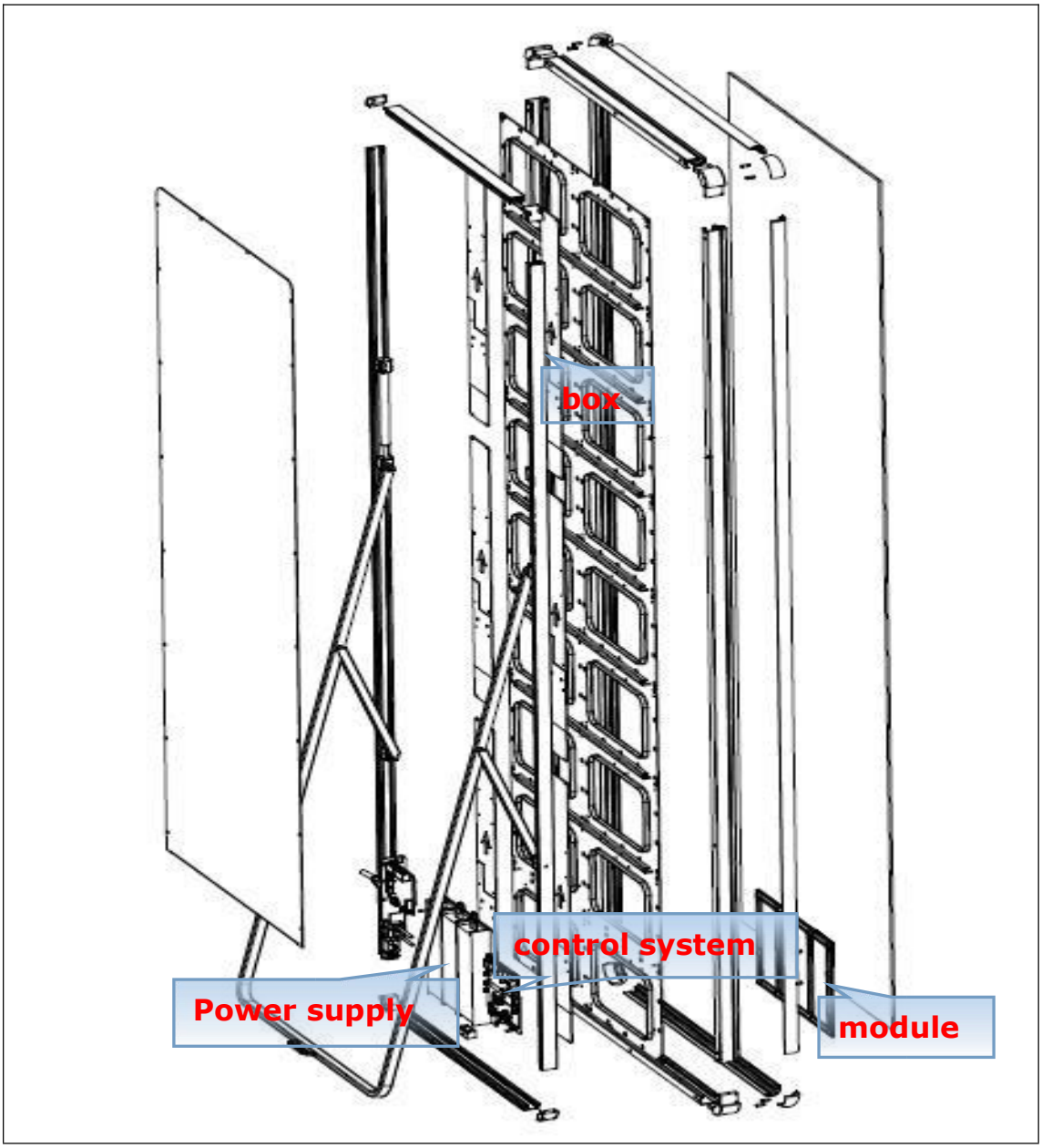


Figure 6

3.2 Modularized Module

Modularized module means that intensively fix lamp board, module bottom shell, HUB board as a whole part.

Connection between power supply and module:

It is convenient to install the module to cabinet or remove the module from cabinet.

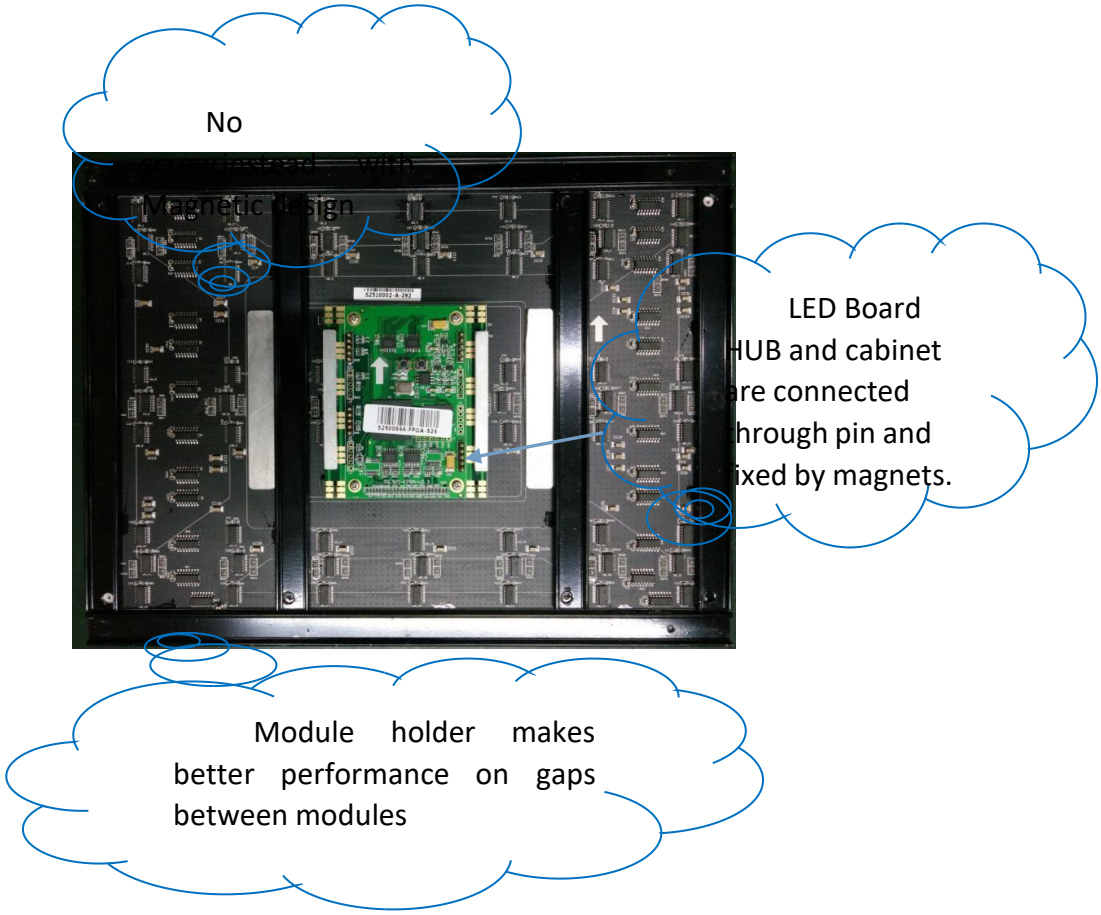


Figure7

3.3 Energy saving power supply

Ultra thin and light weight energy-saving power supply

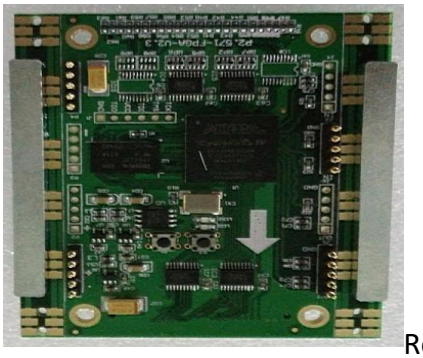
Figure8

3.4 Control system

Control system including HDMI board， control card and Receiving card

HDMI board

control card



Receiving card

Figure9

Section 4 Installation Guide

4.1 Configuration

4.1.1 Computer Configuration(laptop）

Operation System: Windows XP/ Windows 7

CPU: Intel core i5; dual-core or more； Frequency ≧ 3.0G

Hard Disk ≧500G

RAM≧4G

Output：HDMI

4.1.2 LED Controller Configuration

Control system has been built into the screen

Software: Provided with screen power cable,

HDMIdata cable , driver CD， USB key.

4.1.3 Power distribution configuration

Power		
Pin number	Pin Name	Function
1	L	AC power line
2	N	AC power supply zero line
3	FG	AC power line

Power cable

Figure10

input voltage: 220V， （if not 200V at local, please tell talentech in advance,then we can make some change）

4.2 Installation method

Installation method including floor standing and Wall hanging

4.2.1 Floor standing

Here we'd better need two person to complete the floor standing.

Step1: Take out the i-Mirror out of the carton box and then let it stand on the smooth ground

Figure11

Step2 One hold the i-Mirror, the other one unfold the bracket in the back

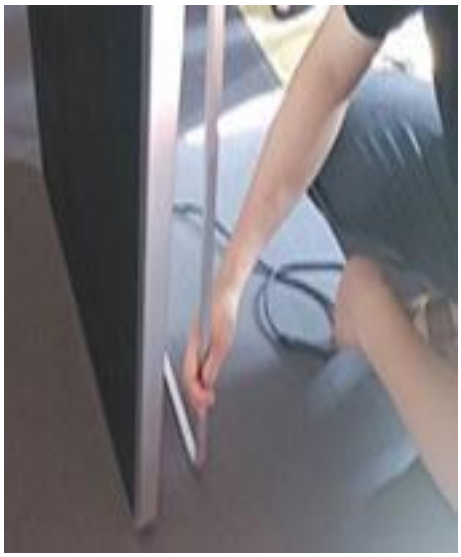


Figure12

Step3: Unfold the bracket and then we can complete the floor standing

Figure13

Figure14

4.2.2 Wall hanging

Make sure the concreate wall is strong and solid enough to load the screen and structure. Although the Mirror can be fixed directly to the wall, but most of the wall is not with accurately flatness.

Prepared tools

			
electric drill	M10*80mm expansion bolt	dual-purpose wrench	Hammer

Figure15

STEP1: Take out the pendant component and the screw bolt from the carton box, then screw the component parts together. Like the picture below

Figure16

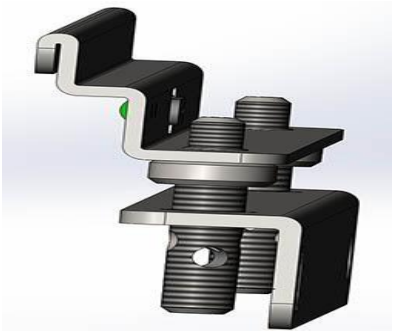


Figure17

STEP2: Measure the height of the permanent position and make sure the position of the two wall mounting holes. Using a level, plumb the wall jamb and mark the two wall mounting holes with a pencil.

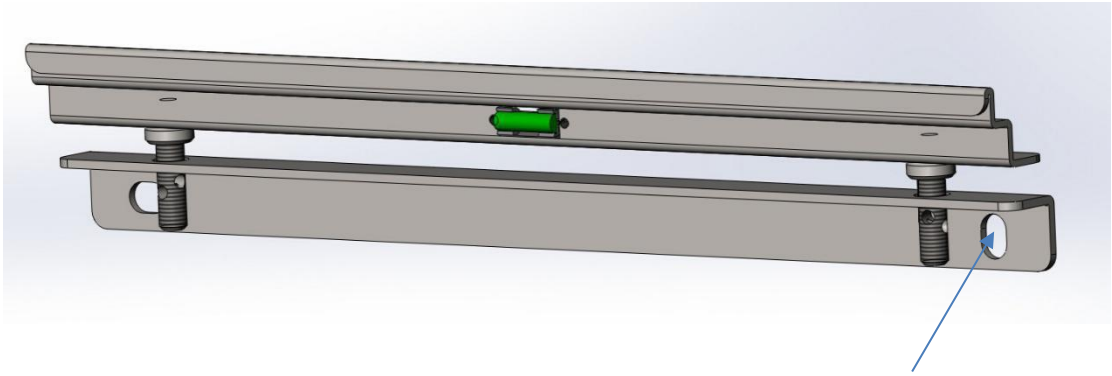


Figure18

STEP3: Using the electric drill with M9 diameter drill bit to bore the two wall mounting holes that have marked before in the wall.

Figure19

STEP4: Drive two M10 expansion bolts in the wall mounting holes

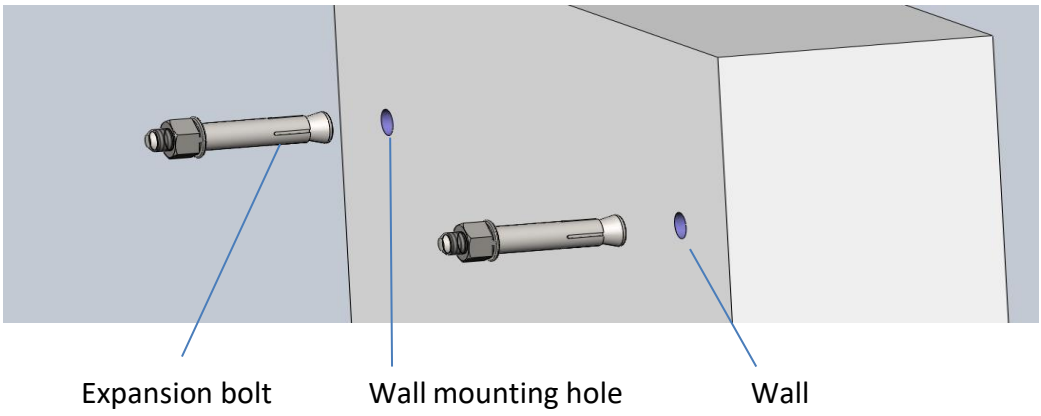


Figure20

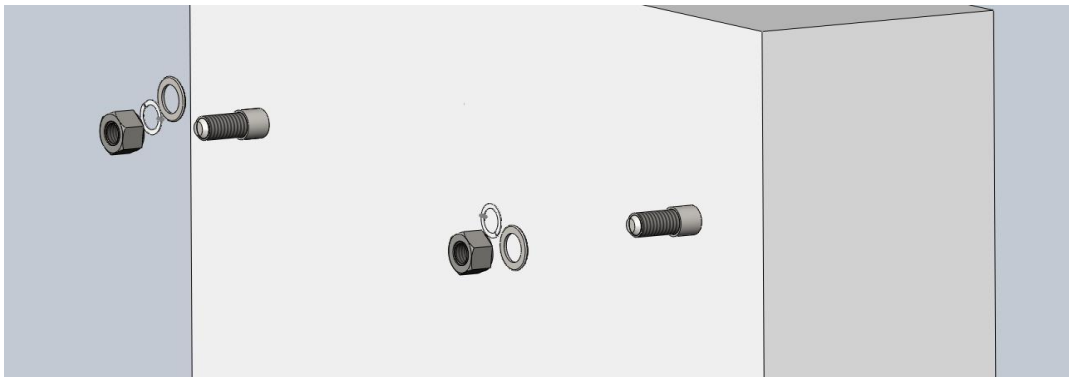


Figure21

STEP5: Plug the pendant's mounting hole into the expansion bolt and then tighten the bolt.

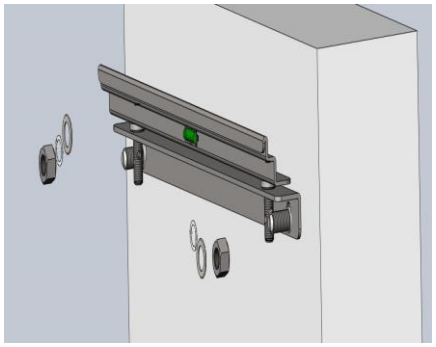


Figure22

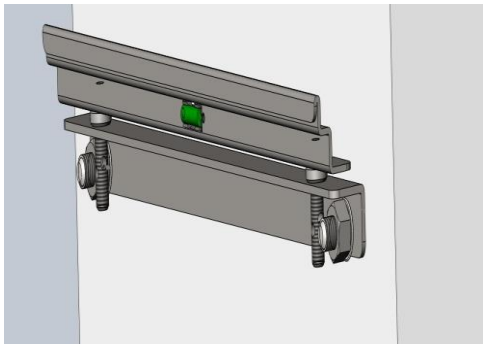


Figure23

STEP6: Put the Mirror on the pendant

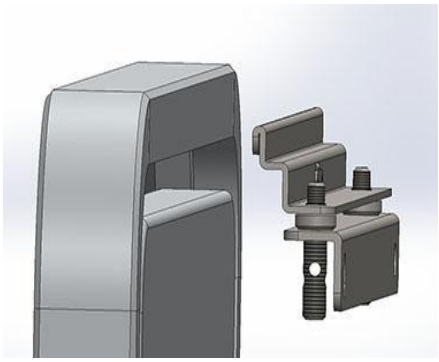


Figure24

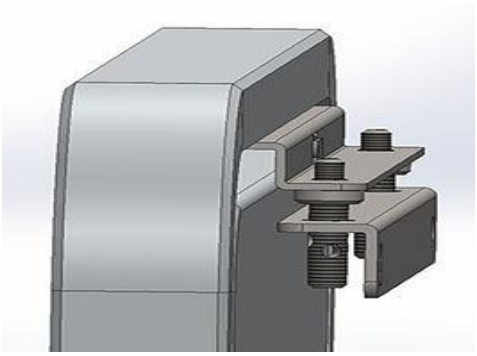


Figure25

Figure26

Section 5 Software manual

Software preparation： Laptop computer,USB drive,Wireless router,Computer monitor,USB key.

Reference accessories：Software description

Section 6 Maintenance and troubleshooting guide

6.1 Packaging and transportation

Items for packaging： cystosepiment，PE film，adhesive tape，Carton，Flight case

or wooden case. Foam board

Step 1 Install bottom cystosepiment

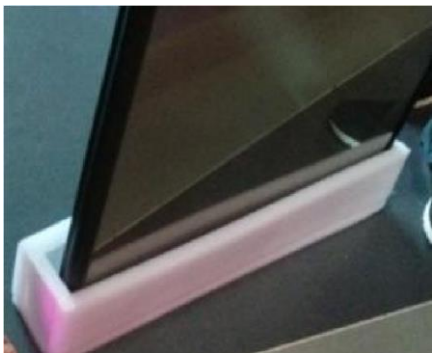


Figure27

Figure28

Step 2. Install top cystosepiment

Step 3. Install front and back cystosepiment

Figure29

Step 4. Wound PE film

Figure30

Step 5. Load into the carton

Figure31 Step

6. Load into the flight case or wooden case

Figure32

Transportation Warning:

To protect the panels from shocks that normally occur during transport. The product warranty does not cover damage from due to incorrect packing.

The LEDs on the panel are fragile. Avoid exposing front and edges of the panels to shocks.

To avoid damage to the panels, it is recommended to leave the panels in the carton box until needed.

6.2 Prepared Tools

			
Phillips screwdriver	Magnet handle	Antistatic gloves	multimeter
			
Combined tool	plastic cables	bevel pliers	

Figure33 **6.3**

Module disassembly and maintenance notice:

Guaranteed to be in the case of cutting off power Step1:

remove the acrylic plate.

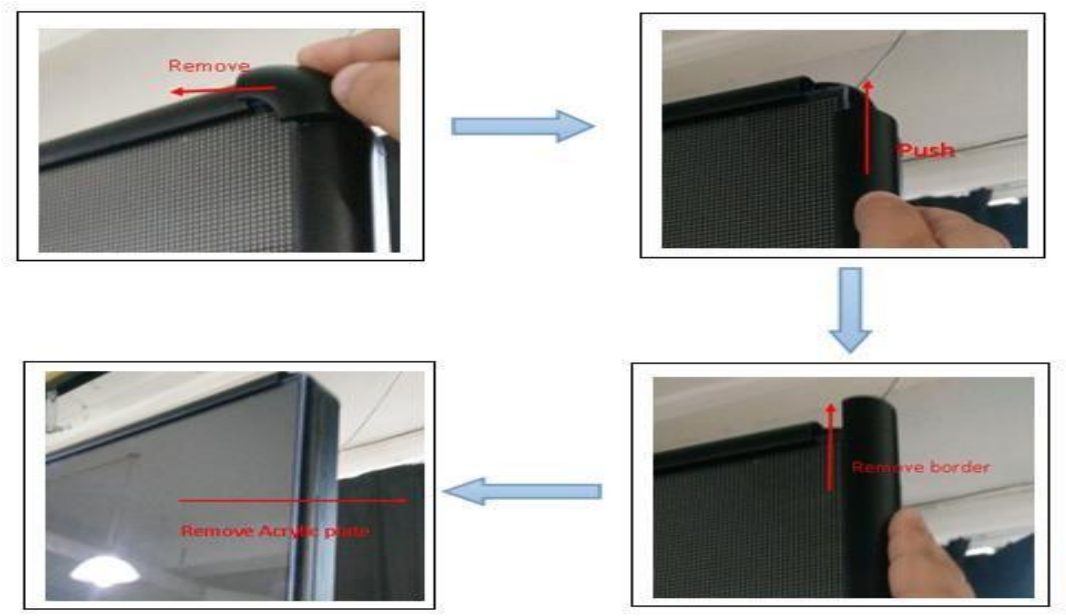


Figure34

Step2 change the fault module (notice: wear the Antistatic gloves)

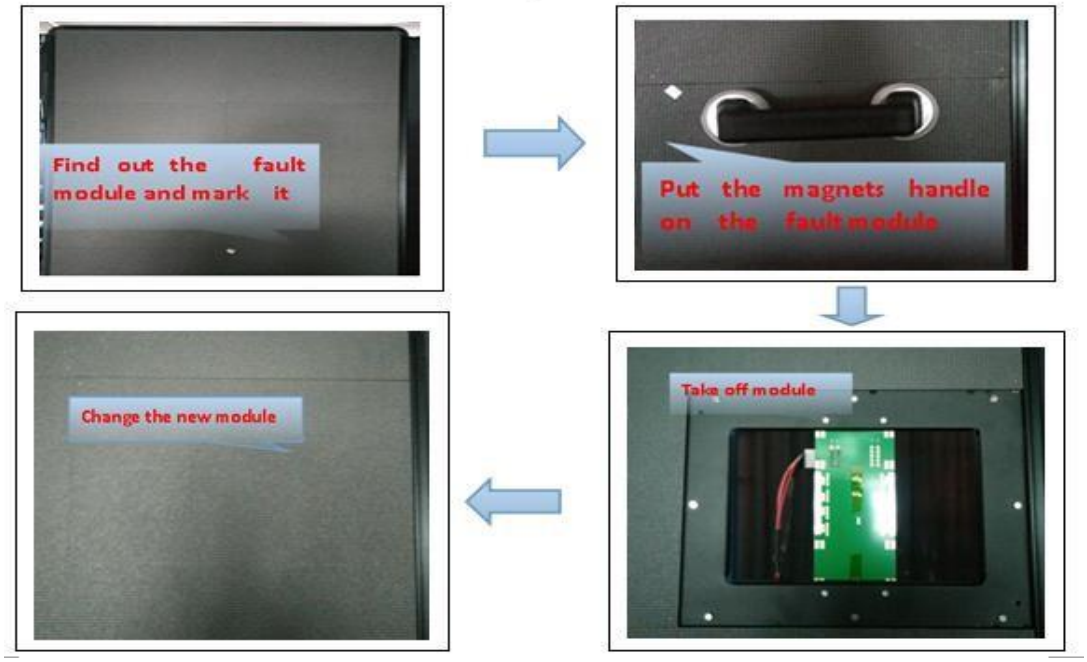


Figure35

Step3 take on the power and test, until the screen is OK!

Step4:Install Acrylic plate， follow Step 1 steps in the opposite

6.4： Power supply disassembly and maintenance

Remove back cover(Power supply is installed in the bottom inside the back cover)

Step1 To power off firstly and then use screw driver to take off 8 screws of the back cover

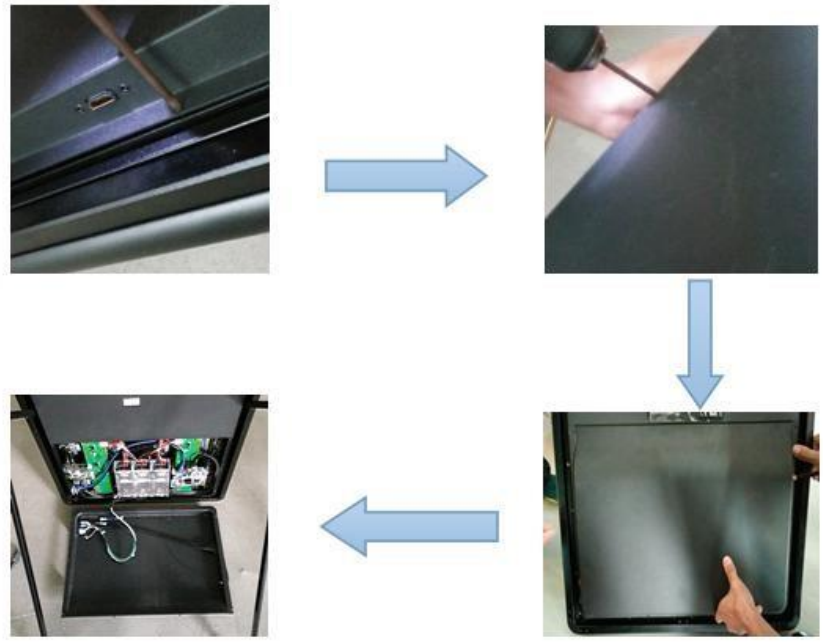


Figure36

Step2 Change the fault power supply.

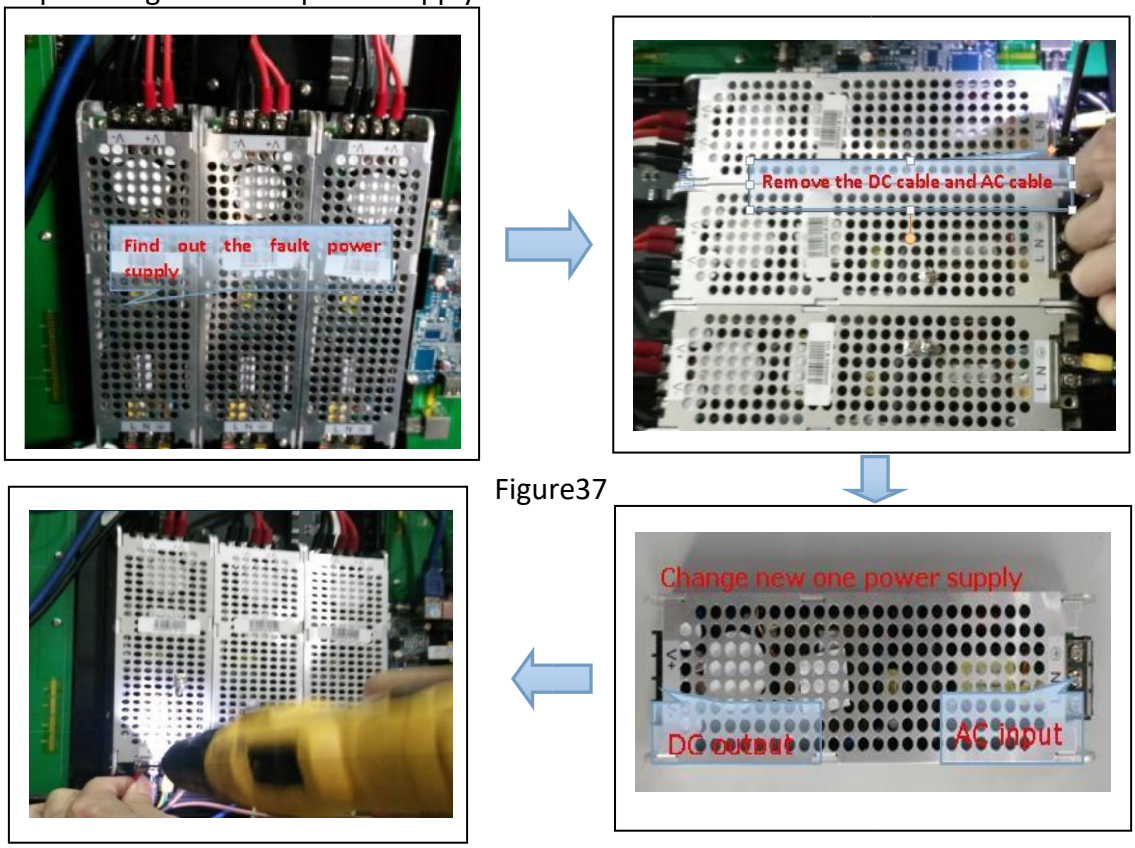


Figure37

Step4,Check the input and output， make sure the power supply no short circuit。

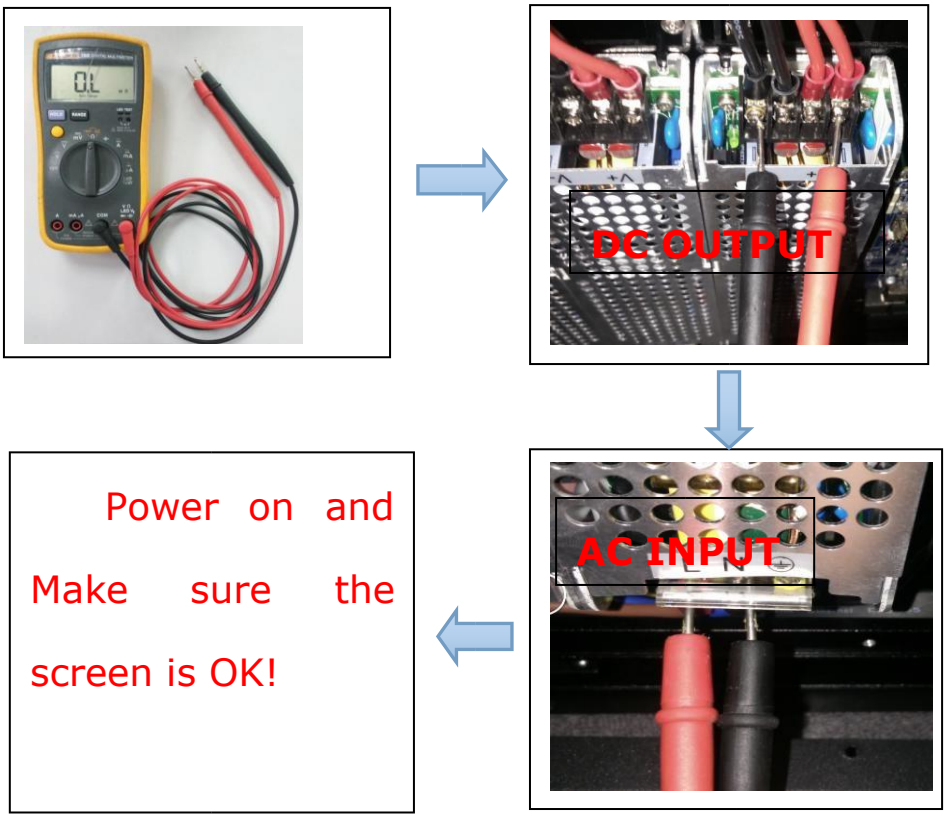


Figure38

Step5, Install back cover follow

Step 1 steps in the opposite

6.5 HUB Board disassembly and maintenance

Step1:(make sure take off power） remove back cover.

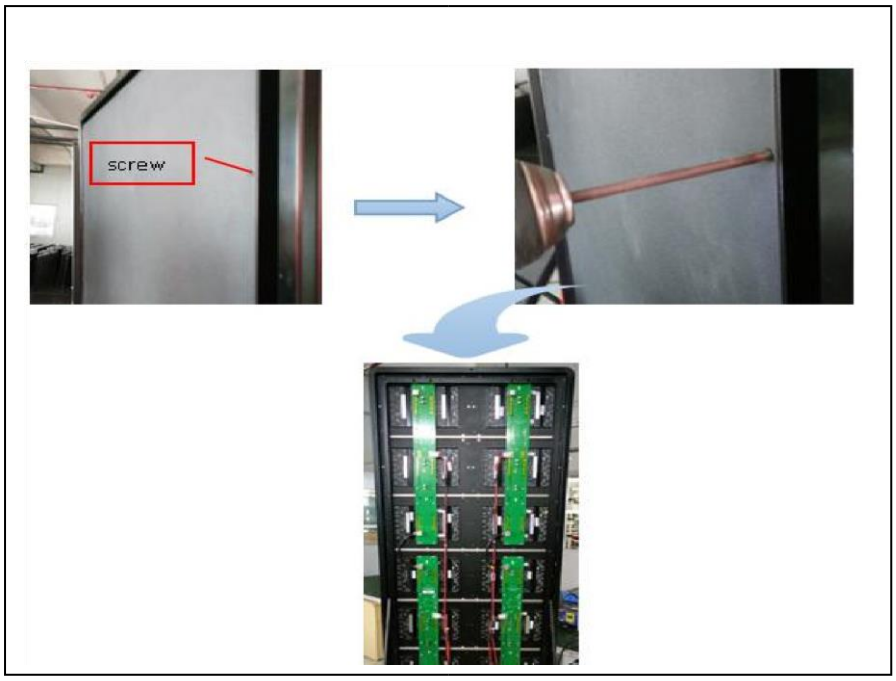


Figure39

Step2:Change the fault HUB board。

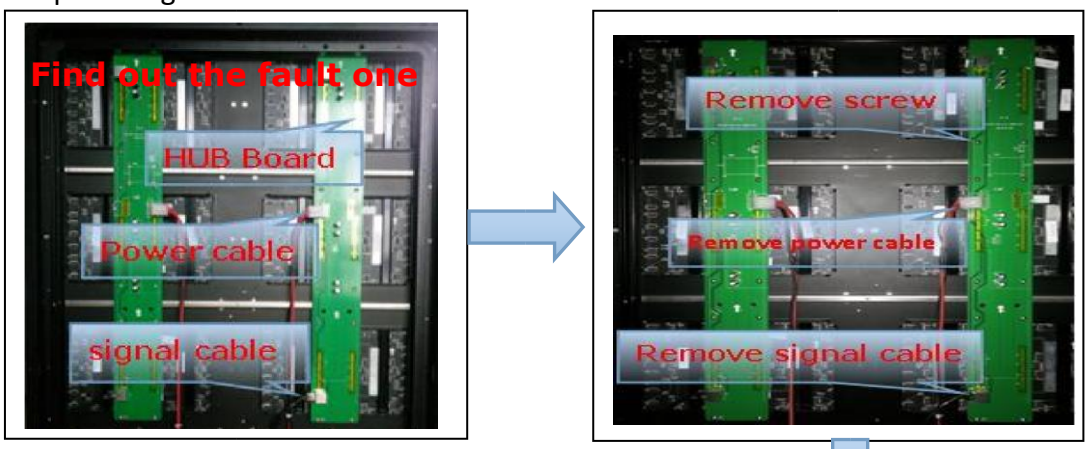
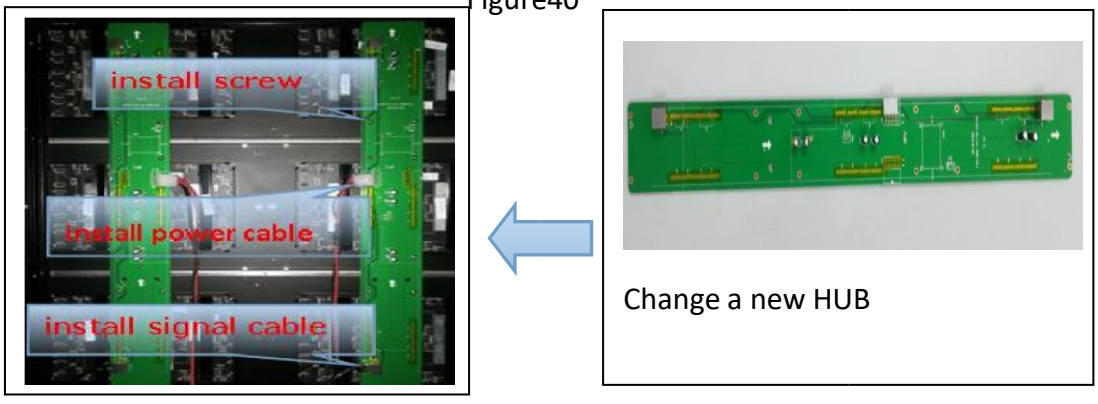


Figure40



Step3: Take on the power , make sure the screen is OK

Step4: Install back cover

6.6： Frequent question analysis

Failure phenomenon	Fault description	Resolvent

Black Screen	No show after take on power for a long time	1、Confirm the power supply is normal 2、Press mode select button，Confirm screen work mode normal 3、Confirm that the power supply is normal，if not,pLS change it.
Certain module not shine , not controlled	Certain module not shine or not controlled	1、Change the fault module 2、Change the fault HUB board
Speckle display and cannot controlled	The whole Screen Speckle display	1、Restart the Xposter 2、Change the control card。
Parts of the screen no show	1/3 or 2/3 of screen no show	1、Check the power supply，if it no output ，change it 2、Check HUB board（the HUB board have one red light）if it no bright,check HUB have 5V input or not .
U-disk can not change Video or pictures	U-disk no used	1、Confirm U-disk is OK! 2、Confirm video format or image format is no problem
Can not find Xposter through wifi	Can not connect to the Xposter through WiFi	1、Confirm Xposter and PC are in the same LAN。 2、Check I- mira is off line OR not the

NOTICE :Please contact FOREGOUND Technical Support if your screen still have problem after try above solutions.

Section 7 Specification parameter

Parameter		Value
Physical Parameter	Pixel Configuration	3in1 SMD
	Pixel Pitch （mm）	2.571
	Module Dimensions (HxWxD)/（mm）	288*216*8
	I-mirror Cabinet Dimensions (HxWxD)/（mm）	1990*622*35
	Cabinet weight (kg)	35
Electronic Parameter	Color Grayscale (Bit)	14bit

	Gray Scale per Color （level)	16384
	Refresh Rate（Hz）	＞1000HZ
	Driving Type	1/28
	Frame Frequency（Hz）	50/60
	Display Mode	U-disk/wifi/internet
Optical parameters	Brightness（cd/m2）	1200
	Color Temperature（K）	7500
	Color Contrast	2500
	Optimal Horizontal Viewing Angle（°）	120
	Optimal Vertical Viewing Angle（°）	120
Electrical Parameter	AC Input Voltage（V）	100-240
	AC Input Frequency（Hz）	50-60
	Power Factor	>0.9
	AC Input Power Maximum Value（W）	67W±5%
	AC Input Power Typical Value（W）	23W±5%
Circumstance Parameter	Storage Temperature（℃）	-20~+60

	Operating Temperature（℃）	-10~+40
	Storage Humidity（RH）	10 %～ 90 % without frozen dews
	Operating Humidity（RH)	10 %～ 90 % without frozen dews
	Waterproof Rating	IP40/IP21
	Lifetime Typical Value（hrs）	50000
Installation typet	Cabinet installation type	Lifting / Fixed installation

Section8 Friendly and diverse Communication and Broadcast Methods

8.1 Single Xposter Synchronous Display

laptop

HDMI cable

Figure46

Step1： Connect Laptop and Xposter through HDMI cable as below

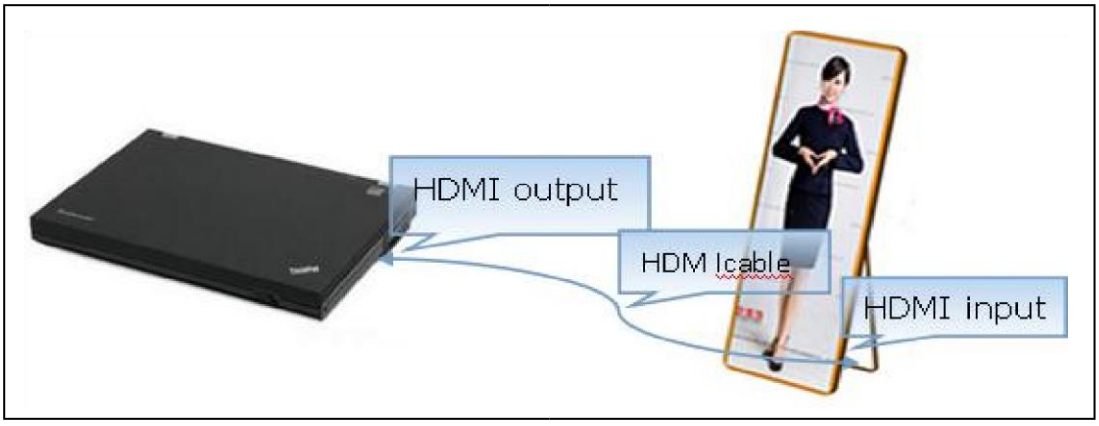


Figure47

Step 2： Power on the Xposter

Step 3： Press Mode Switching Button

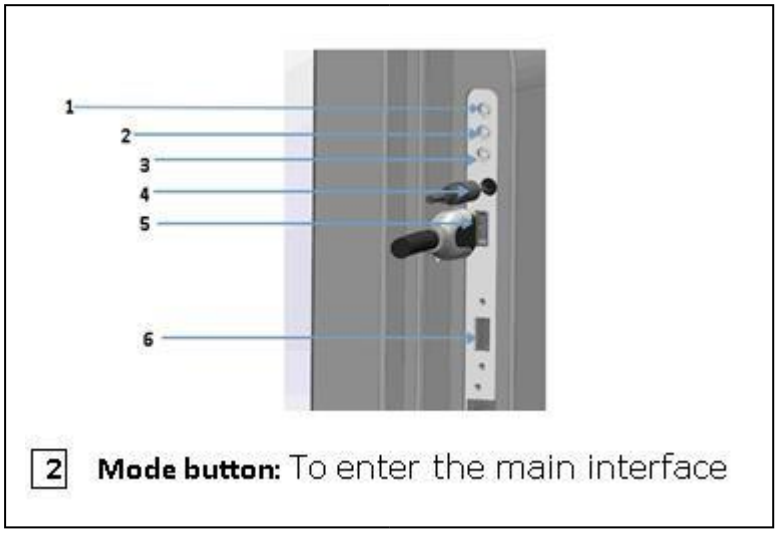


Figure48

Step4： Open laptop, change to copy mode (usually press FN+F8), and then adjust the window of the player software, until the whole picture is showed on Xposter screen.

8.2 Two Xposter Synchronous Communication

Figure49

Step1： Connect laptop, Xposter A and 2 Xposter B through HDMI cable as below

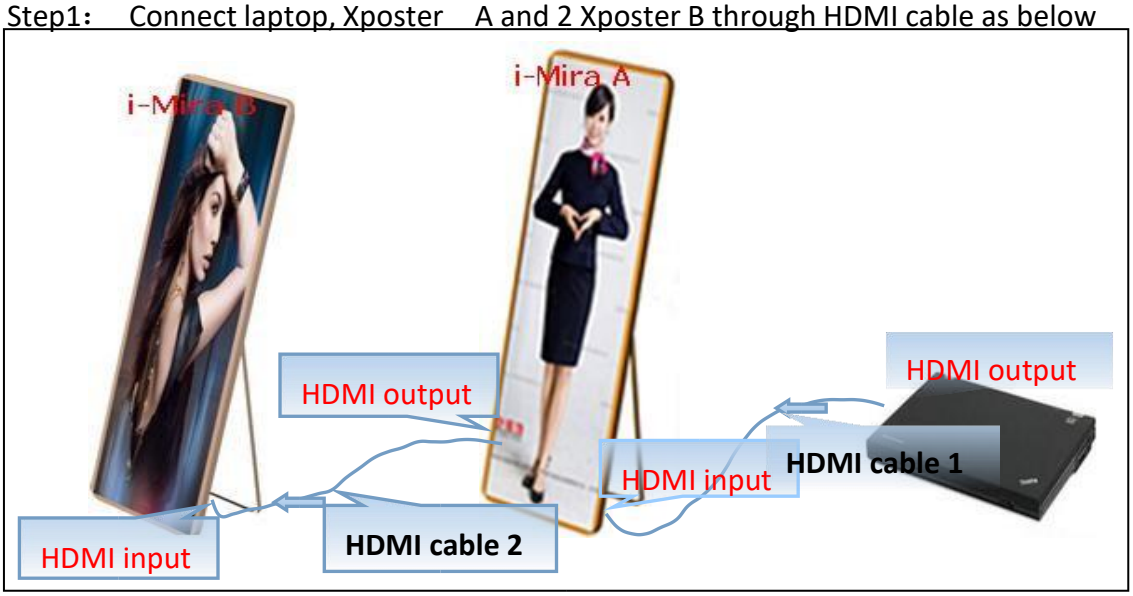


Figure50

Step 2： Power on the Xposter

Step 3： Press **Xposter B** 's Mode Switching Button

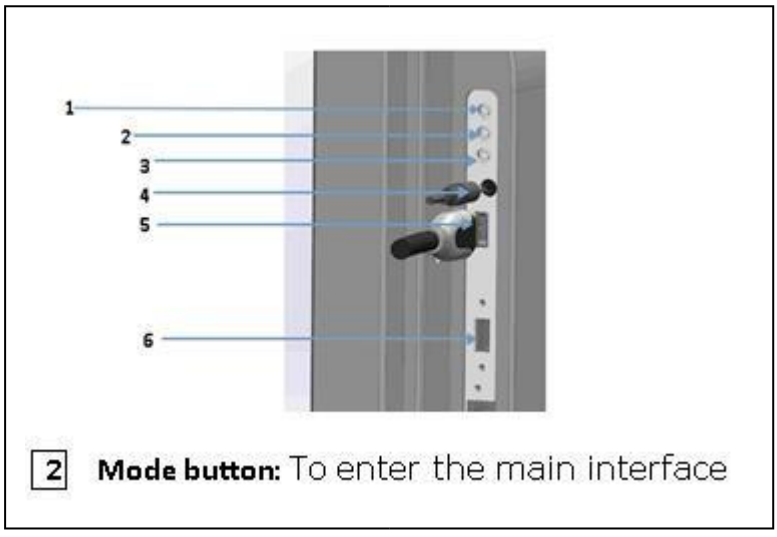


Figure51

Step4 ： Open laptop, change to copy mode(usually press FN+F8), and then adjust the window of the player software, until the whole picture is showed on Xposter A and Xposter B.

NOTICE: four screens connected only!

8.3 Asynchronous Connection Communication

Figure52

Step1： Connect Banner A and Banner B through HDMI cable as below

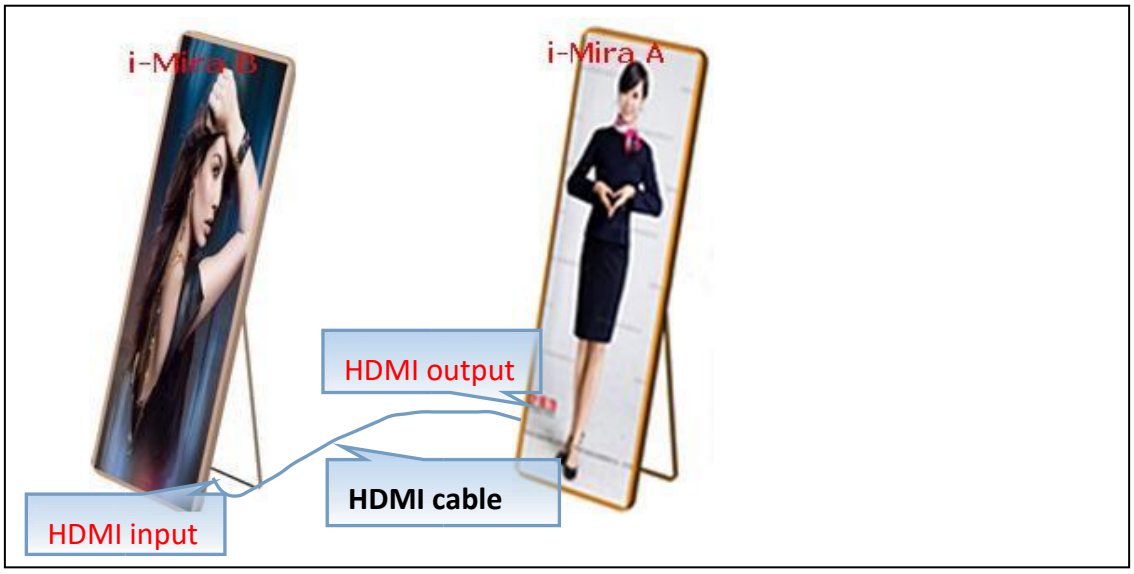
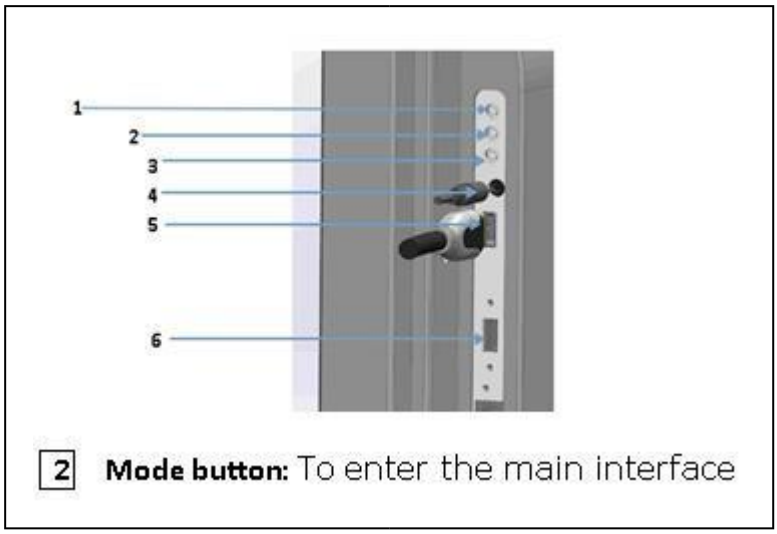


Figure53

Step 2： Power on the Banner

Step 3： Press **Banner B** Mode Switching Button，then Banner A and Banner B will show the same content

Figure54



Step4: use your laptop or U disk, change the content for Banner A.(to see details in the software Easymaker instruction)

Figure55