TEXXAB

XXLED-000004
Creative Display Standard Product

User Manual

V1.0

CONTENTS

This manual systematically introduces the product components, ports, specifications, as well as installation, function applications and other instructions, aiming at guiding user to start a efficient experience with . XXLED-000004 products

This manual can be applied to all XXLED-000004 customized projects with different pixel pitches.

The version of this manual is V1.0.

WARNING!

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

The following icons are used in this product and manual to mark important safety signals.

Caution, ISO 7000, 0434 or 0434b (2004-01)	⚠
Dangerous voltage, IEC 60417-5036 (2002-10)	⚡
Protective earth; protective ground, IEC 60417-5019 (2006-08)	⏚
Caution, IEC 60417-6043 (2011-01)	⚠

Indicates user must understand and follow all safety guidelines, safety instructions, warnings and precautions in this manual. The possibility of damage to the device and the inability to recover due to ignoring the following contents of the warning is extremely high.

The manufacturer shall not responsible for any incorrect, irregular or unsafe operations.

Please make sure this product earthed correctly to ensure safety and prevent electrical shock.

Do not use electrical accessories that are not certified by the equipment manufacturer.

Please cut off product power under situations of off-work state, disassembly, installation, maintenance.

Please make sure the AC power meets local building & electrical standards and equipped with overload and earth faulty protection.

This device has two input sockets that need to be disconnected at the same time to disconnect the power supply from the device. The AC power for the device shall be 100-240V. The plug on the power supply cord is disconnect device. The AC mains plug for socket always shall remain easily operable.

If abnormality occurs in the display, such as abnormal smell, smoke, electric leakage or temperature happens, please cut off the power immediately and then contact the professional;

It must be ensured that the display and its accessories are properly and reliably grounded before use;

Don't touch sharp edges.

3) If the display panel is not used for a long time, it is recommended to light up to normal brightness step by step to dehumidification (refer to Diagram 1);
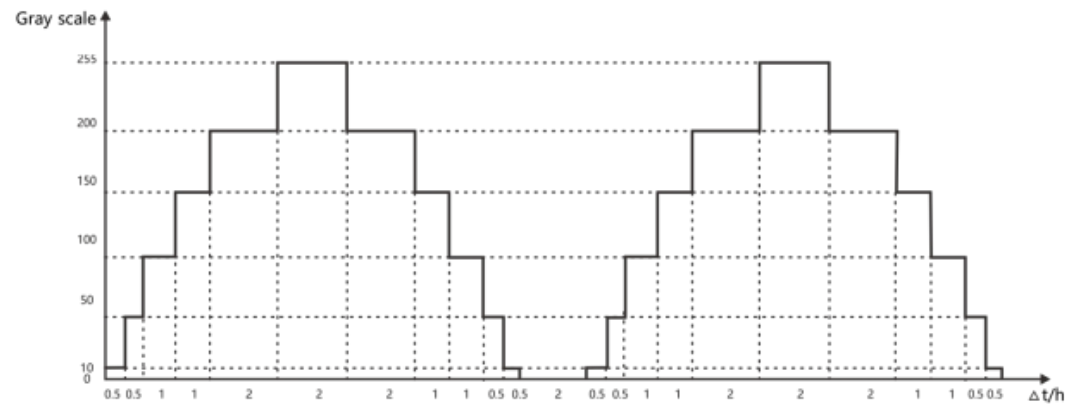
Diagram 1

4) Under normal circumstances, the display must be powered on and turned on at least twice a week, and each lighting time shall not less than 2 hours;

5) If the display is installed in the seaside, saline-alkali area, sulfur-containing gas area, places near kitchen smoke exhaust or with large indoor and outdoor temperature difference, it may cause equipment failure and affect the service life. If inevitable, please consult our professional and technical personnel.

- Do not invert and throw the equipment during handling and storage;
- Do not tilt and collide to scratch the equipment during the installation process;
- Do not drench and immerse the equipment in water when the rear cover of cabinet is open;
- Do not place or use the display in an environment with volatile, corrosive or flammable chemicals;
- Do not clean the display equipment with water and chemical solvents;

NOTE

It is highly probable that you will not be able to get the best display effect if you ignore the content of the notice.

1) Wear anti-static gloves and anti-static bracelet during installation and maintenance;
2) Smooth air flow on the back of the display must be considered when designing the heat dissipation scheme;

1. Product Brief

1.1 Product Introduction

Series is specially designed for outdoor creative display applications by TEXXAB, with horizontal pixel pitch of 31.25mm and vertical pixel pitch of 15.625mm. XXLED-000005 cabinet resolution: 32 *96; XXLED-000004 cabinet resolution: 32* 64.

1.2 Product Features

a) Enclosed display module design;

b) Display module applies hard -connection design;

c) Aluminum profile module can prevent product from rusting;

d) IP65 for both front and rear side, satisfying outdoor application;

e) Fanless design ensures quiet operation;

f) CVTE self-brand PFC power supply and wide voltage design enable energy -saving and reliable performance;

g) Brand gold -wire LEDs, longer life span;

h) Power-saving module design , reducing about 35% energy than TEXXAB A Series LED mesh product.

1.3 Product Dimension

XXLED-000005 Module Size: 105x1498 (mm)，Resolution 4*96

XXLED-000004 Module Size: 105x998 (mm), Resolution 4*64

XXLED-000005 theoretical overall dimension :1000 (W) x1500 (H) (mm)；

XXLED-000004 theoretical overall dimension :1000 (W) X1000 (H) (mm)；

XXLED-000004/XXLED-000005 standard thickness: 72mm

1.4 Cabinet Components

Following diagram is an example of XXLED-00000 5 series product (1000 ×1500)

Auxiliary Eyebolt M8 (shall be removed after finishing installation, 4-6 pcs will be provided for each project)

Power Box

Reinforce Bar× 2

Display Modules× 32(8 sets）

Note: XXLED-000004 (1000 ×1000) has only 1 reinforce bar, and other components are as same as XXLED-000005.

Bottom Mounting Plate
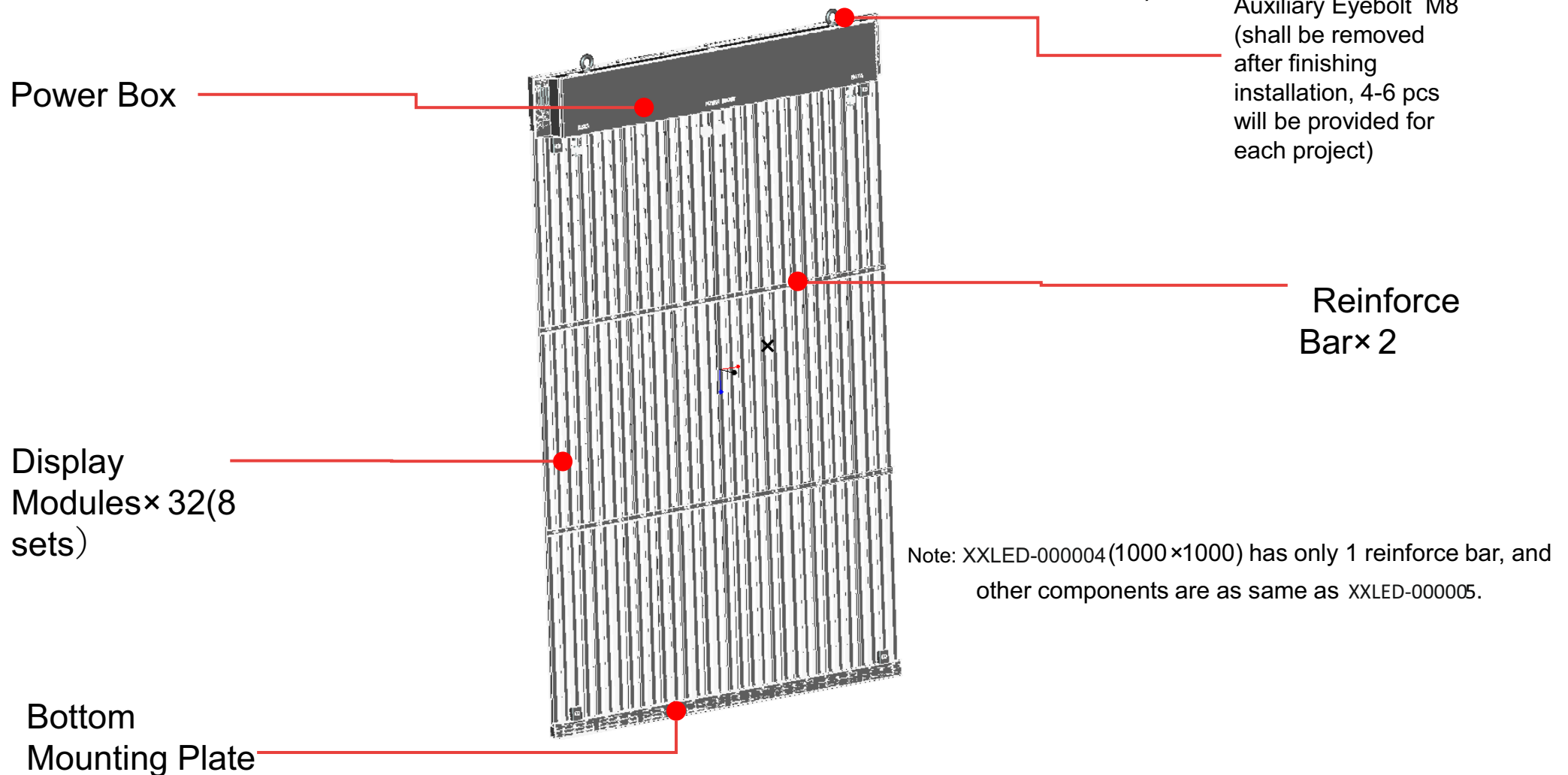
Power Box Components (XXLED-000004)

- Left Distribution Board
- Hub Board
- Receiving Card
- Right Distribution Board
- Power Box
- Cabinet Fasten Hole Position (front access)
- Bus Board × 2
- Signal Aviation Connector × 2
- Power Supply × 2
- Power Output Aviation Connector
- Power Input Aviation Connector
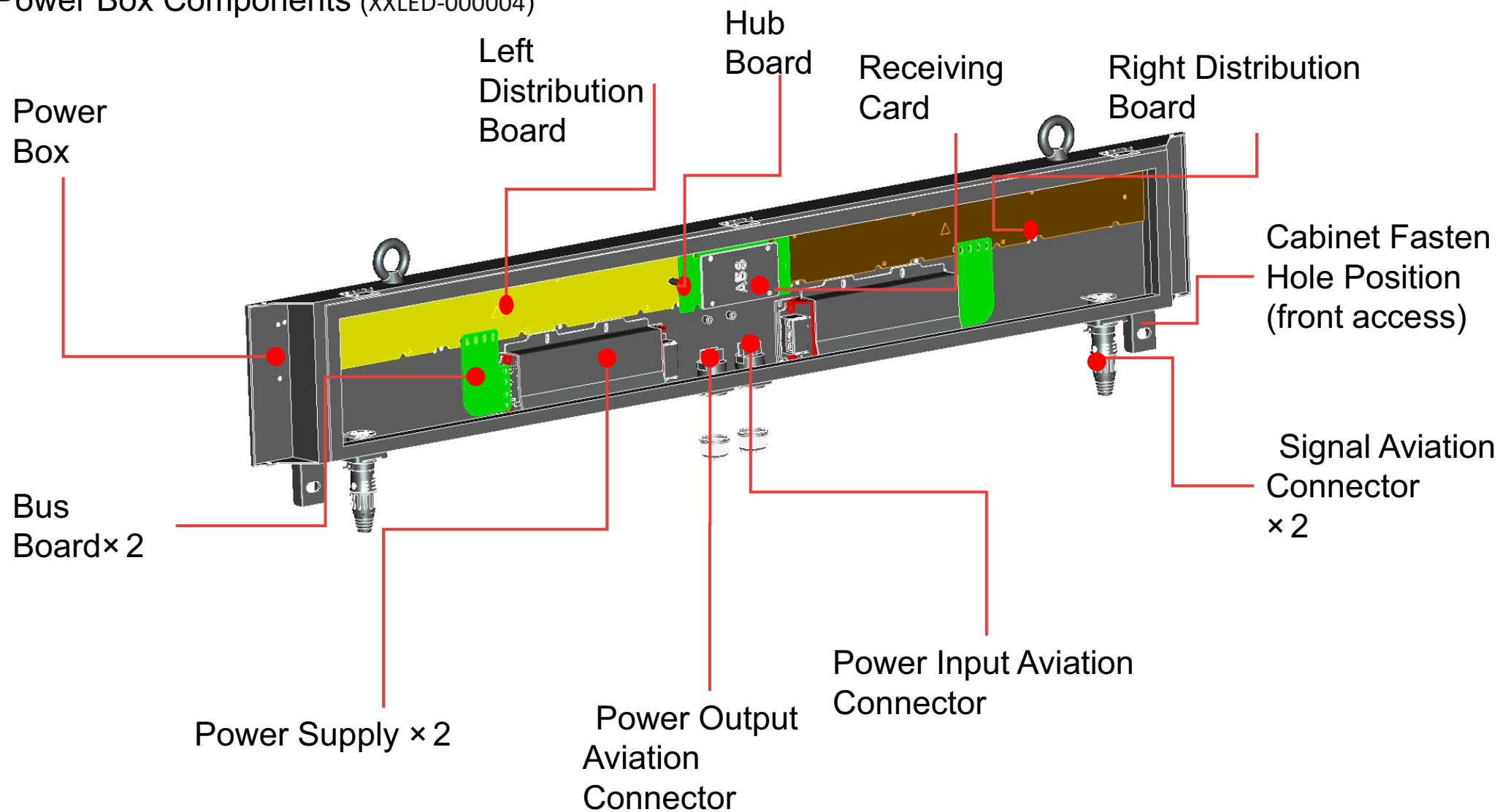
1.5 Product Parameter

Product Model	XXLED-000005	XXLED-000004
Application Mode	Outdoor LED Mesh	
LEDs Type	DIP346	
Pixel Pitch (mm)	31.25*15.625	
Brightness (nits)	7000	
Refresh Rate (Hz)	1920/3840	
Module Size (W*H)	105*1498	105*998
Cabinet Display Size (W*H)	1000*1500	1000*1000
Cabinet Overall Dimension (W*H*T)	1000*1500*72	1000*1000*72
Cabinet Resolution	32*96	32*64
Cabinet Material	aluminum profile + sheet metal power box	
Maximum Power Consumption (W /㎡)	220	
Weight (kg/㎡)	13.2	17
Gray Scale	16	
Viewing Angle	120/70	
IP Rating	Front / Rear IP65	
Input Voltage	AC100~240	
Maintenance Mode	Front or Rear	
Operating Temperature (℃)	-20 - 50	
Operating Humidity（RH）	10%~90% No condensation	

· **above specifications are for reference only, and no further notice will be given in case of any change；**

2. Product Installation

2.1 Open the wooden case, take out the cabinets carefully in case to avoid cabinet damages;

2.2 Find eyebolts (M8) in the box of spare parts and accessories and fix them to the mounting positions on the topside of each cabinet. And then hoist cabinet to the frame by eyebolts (2PCS/ cabinet).
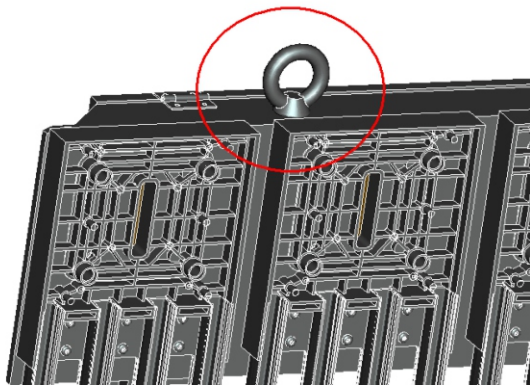
2.3 In rear‑access installation mode, fix cabinet to the frame with M8 bolts on the back, each cabinet has 4 fixing points (Diagram 1).

In front ‑access installation mode, fix cabinet to the frame with M8 bolts   from the front,   each cabinet has 4 fixing points (Diagram 1).

The fixing points mentioned refer to below   Diagram 2 (rear‑access installation   mode).
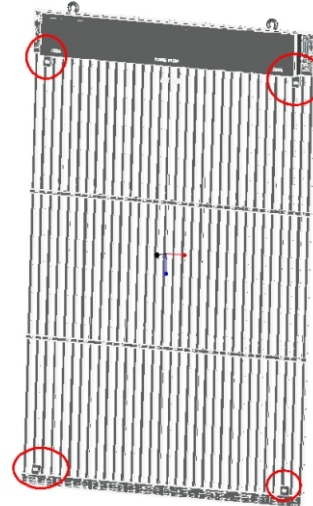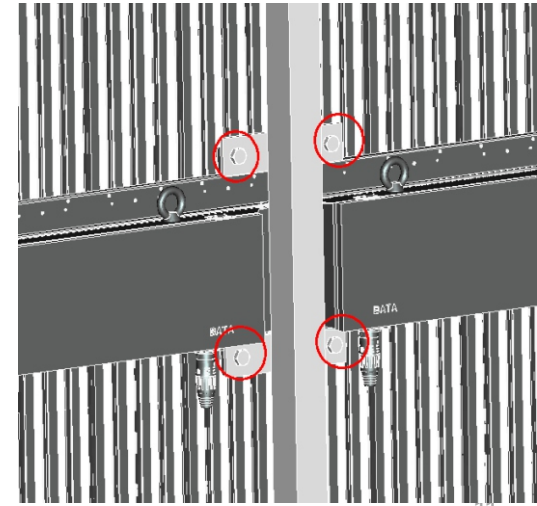
Diagram 1   Diagram 2

2. Product Installation

2.4 Fix all cabinets to the frame from bottom to top and from the middle to both sides; Ensure that all fixing screws are installed reliably. If necessary, apply thread locking glue appropriately according to local conditions (provided by the customer)

2.5 Installation of Aviation Connector (The following pictures are for reference only, and the actual object shall prevail)

For Power input / output aviation connector ：

Plug the connector in power socket and rotate 45 ° clockwise. The connector shall be well plugged after hearing sound of "click". Unplug step shall be the opposite way of plug.

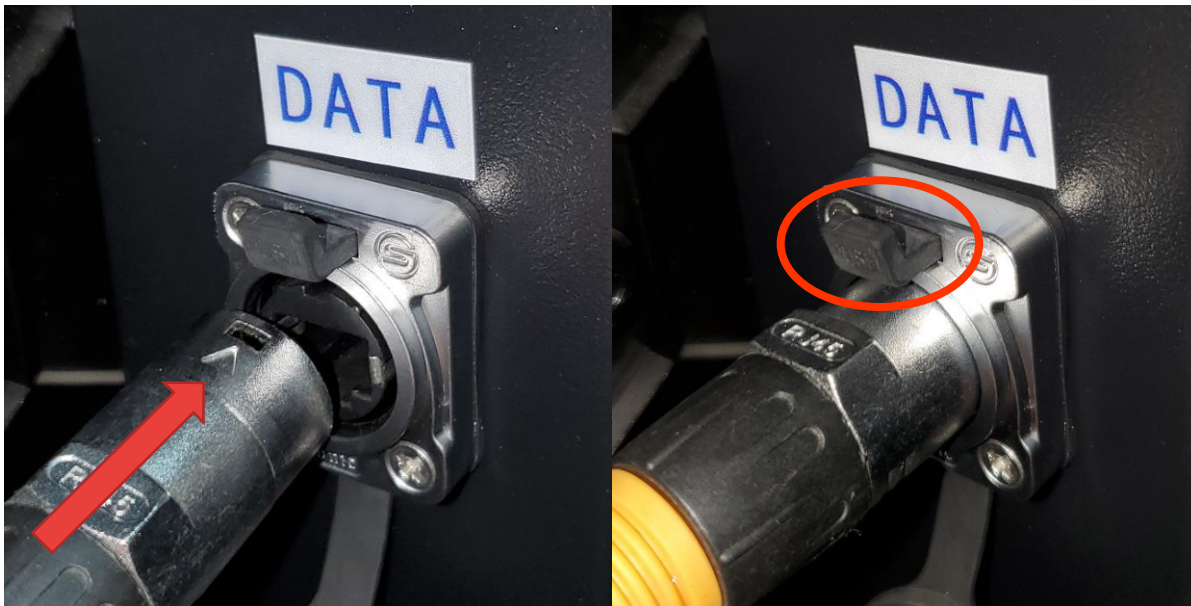STEP 1   STEP 2   STEP3

Note:

For signal aviation connector ：

Plug the connector in signal socket, which shall be well plugged after hearing sound of "click".

Press the button as shown below to plug out the signal connector.

3 System Connection

3.1 Input Voltage Requirement

The input voltage should be 110V/220/±10％, frequency 50HZ～60HZ, consisting with the display power supply voltage.

3.2 System Connection Steps

1）Turn off the power supply of all screens and devices before connection.

2）Connect the DVI signal of the computer (or other equipment) to the controller through the DVI cable, or connect with the HDMI cable.

3）Connect the output signal of the controller to the screen with signal input cable.

4）When all connections are completed, plug the controller, computer or other equipment in firstly, and then other devices.

3.3 Safety Precautions

1）Before the screen is powered on, the cables connection between cabinets, main cables and other cables must be checked without wrong connection, reverse connection, short circuit, circuit break, loosening, etc., and tested with multimeter and other tools. Before any maintenance of the screen, please disconnect all the power supply inside the screen to ensure the safety of personnel and the equipment. All equipment and cables are forbidden to operated under live electrical work.

2）Do not pull out and insert power cord, cable and other wires by force, or lay heavy objects on the power cord, signal cable, communication cable, etc. Avoid trampling or squeezing the cables. Unqualified or self-added cables should not be indiscriminately connected inside the screen.

3）In order to avoid the fire caused by the overload of power cords, do not overloading the product. Please refer to the maximum power consumption of the product and avoid turning on all load switches at the same time. Otherwise, it is easy to cause high peak voltage and may cause fire.

3.4 Power Wiring Diagram

TEXXAB LED mesh product power supply adopts cascade mode (please refer to the system wiring diagram of project for details);

Cascade number (power supply voltage: 220V): the maximum cascade number of XXLED-000005 aviation connector shall be 7 cabinets (as shown in the diagram below), and the maximum cascade number of XXLED-000004 aviation connector shall 11 cabinets.

power supply voltage: 110V): the maximum cascade number of XXLED-000005 aviation connector shall be 4 cabinets (as the diagram below), and the maximum cascade number of XXLED-000004 aviation connector shall be 6 cabinets.
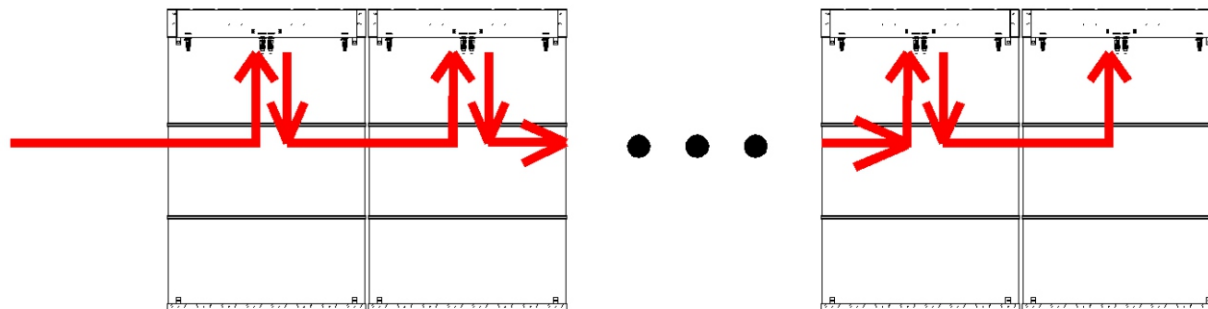
3.5 Signal Wiring Diagram

LED mesh signal cable connection applies cascade mode (Pls. refer to the specific system wiring diagram designed for each project, that is, the signal cables between modules can be connected with each other.
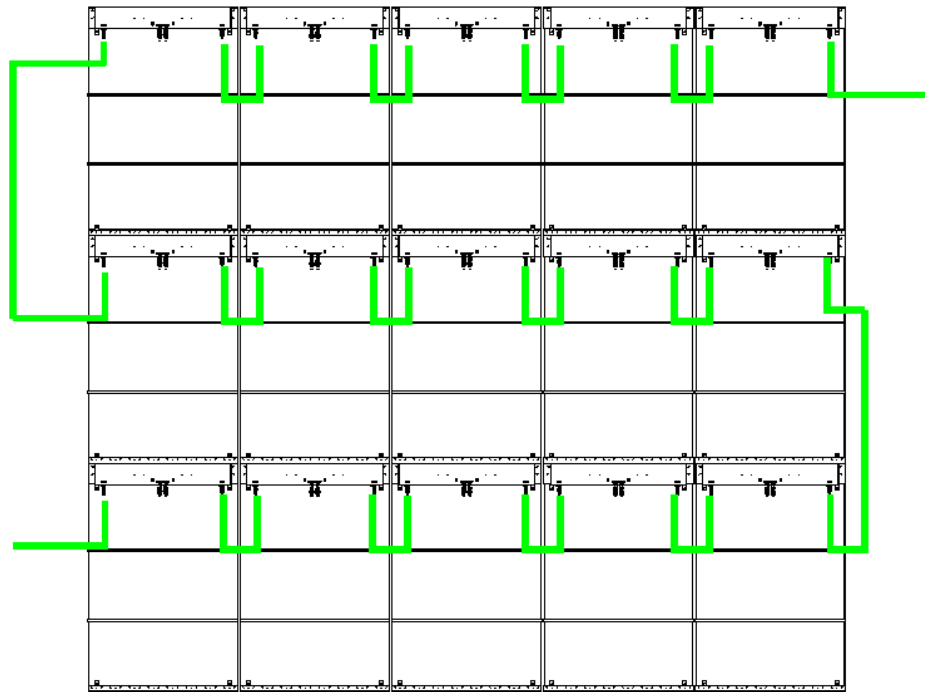
4. Screen Testing and Adjustment

4.1 Environment Requirements

In order to ensure the stability and safety of the system in operation, the following suggestions are put forward for the working environment:

1) Hardware environment: Require CPU main frequency >= 2.0GHZ, RAM >= 1G, discrete graphics card , display memory > 512M, DVI or HDMI output port.

2) Software environment: client operating system: XP, Win7, Vista, Win8 or Win10, etc.

3) Network environment: network connection is necessary for on-line calibration of display screen.

4.2 System Connection Diagram

Connect the computer to the controller and the cable from the controller to the screen according to the diagram below. Connect the power supply of the computer and the screen after confirming that the connection is correct.
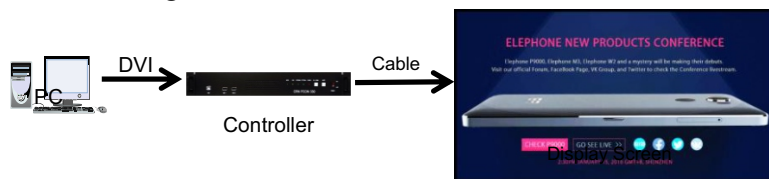
4.3 Turn On / Off The Screen

1）Turn on the screen: Open the computer firstly, and turn on the LED screen power supply after entering the system;

2）Turn off the screen: Turn off the LED screen power supply firstly ,close the control software and then the computer.

4.4 Inspection before Testing

1）Before the screen is powered on, the multimeter must be used to check whether the live wire, zero wire and ground line at the input end of AC power supply are connected.

2）It is necessary to ensure the reliable contact between the ground wire and the earth, the proper distance between the ground wire and the zero wire, and the input power should be far away from the high-power electrical equipment;

3）Check whether the power and signal wiring of the display are consistent with the system wiring diagram;

4）When using the three-phase and five-wire power supply system, the load of each phase should be distributed equally to ensure the three-phase balance as far as possible;

5）The input voltage must meet the requirements of the cabinet voltage.

5. Control Software Operation

Note:

1. The above operation steps are based on the product standard configuration control system and version, and the actual operation steps may be different. And software user manual is subject to change without prior notice.

2. Adjust the parameters in the configuration file according to specific needs by following the corresponding software instructions.

3. If you need technical support, please contact us.

1）Software Installation

① Open the USB flash drive in the package, install Nova LCT-Mars in the USB flash drive on the control computer then install the playback software Nova Studio.

Note: Please follow the steps of the software installation.
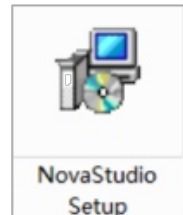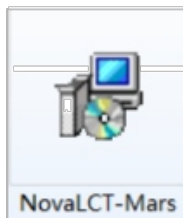
2）Display Configuration

① Open the software NovaLCT_Mars, make sure that the "Control System" is displayed as "1", and click the "User" to select "Advanced Synchronous User Login", as shown below:
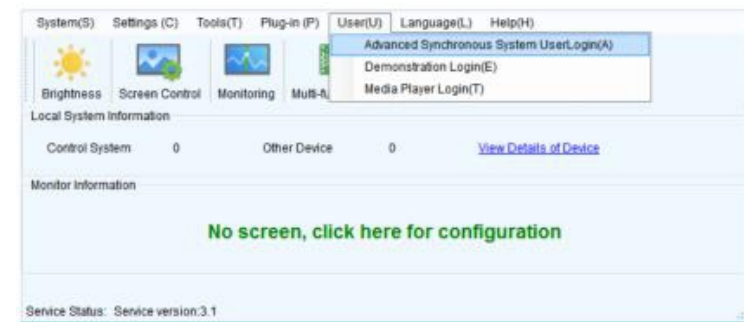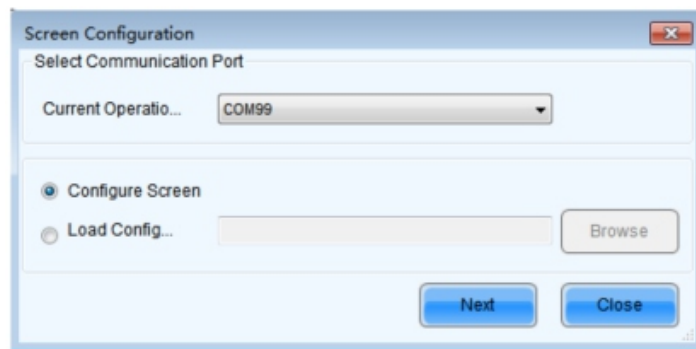

② When logging for the first time, please enter the initial password "admin" and enter the advanced user interface, as follows:
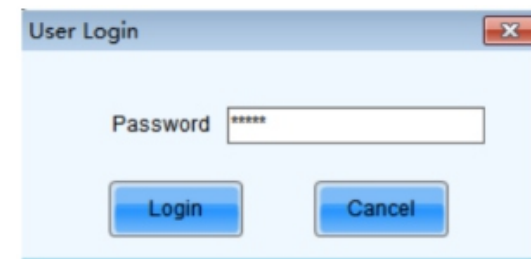
③ After logging in, click "Screen Configuration" in the main window, as shown below:
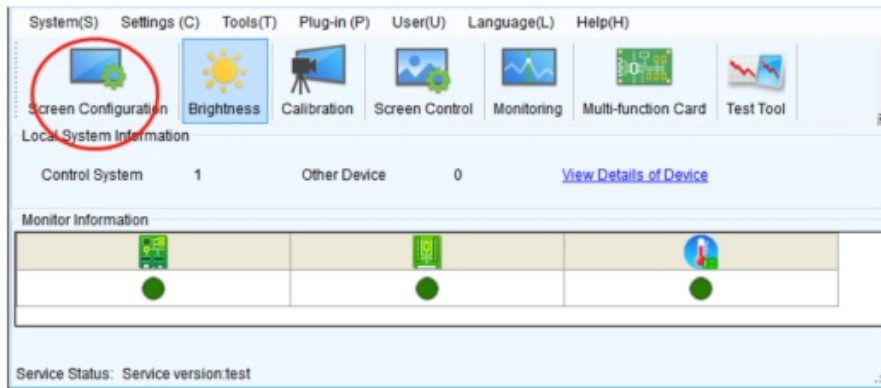

④ Click "Next", as follows：

⑤ The following window will pop up to allow the sending card resolution setting, select same resolution for the graphics card, after that, click "Save".

⑥ Click "Receiving Card" to pop up the following window:
1. Click "Load from file" to load the xxxx. rcfg file in the USB flash drive;
2. Click "Send to Receive Card";
3. After sending to the receiving card, confirm that the loading picture of the single receiving card is normal, click "Save".
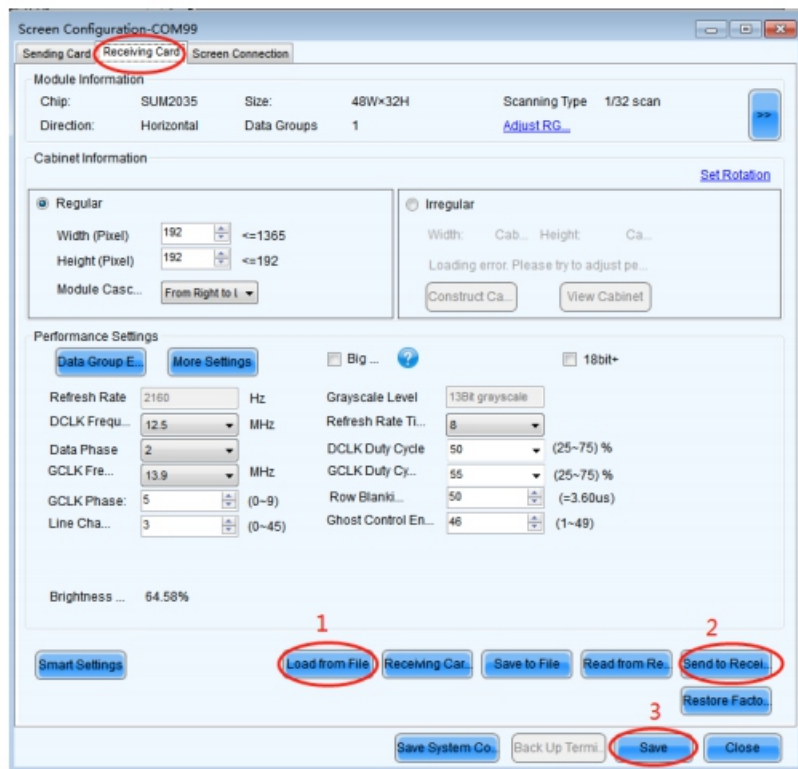
⑦ After setting the receiving card, click "Screen Connection" to pop up the following window:

1. Click "Load from file" to load the xxxx.scr file in the USB flash drive;

2. Click "Send to Hardware";

3. After sending to the hardware, confirm that the picture on the screen display is normal, click "Save" ;
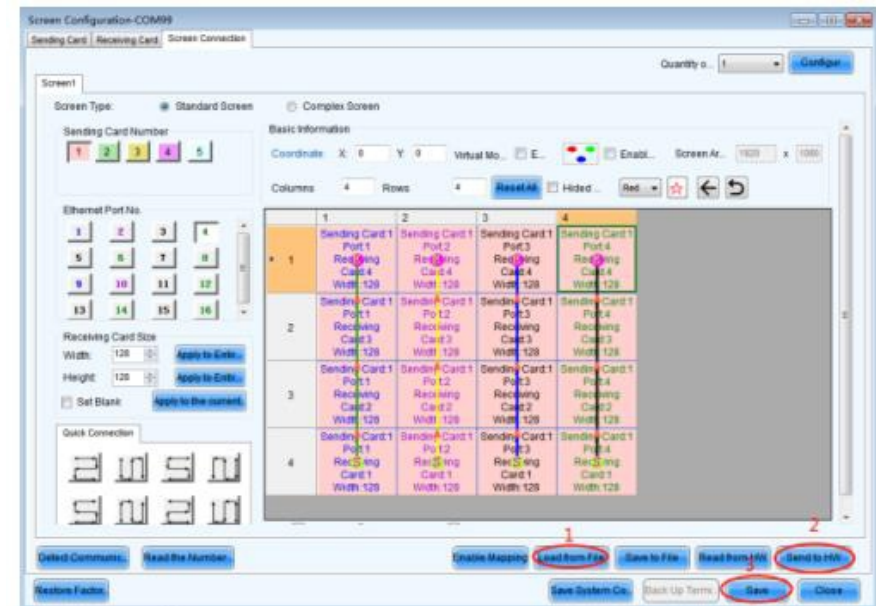
6. Playback Software Settings

(Perimeter screen usually requires professional player software. Below instructions simply take the player software provided by Nova system as an example. Customers shall purchase or rent professional player software according to onsite needs)

1) Software Running Environment

① Test and pass under Windows XP \ Windows7 (32 bit) \ Windows7 (64 bit) \ Windows8 (32 bit);

② CPU frequency >=1.6GHZ, memory >=1G, RAM above 512M;

③ If you want to open Word and Excel files, please install Microsoft Office;

④ Before playing video files, please ensure that the following information is required: the video card is required to support DirectX9, and the DirectX function is enabled.

2) Playback Software Introduction

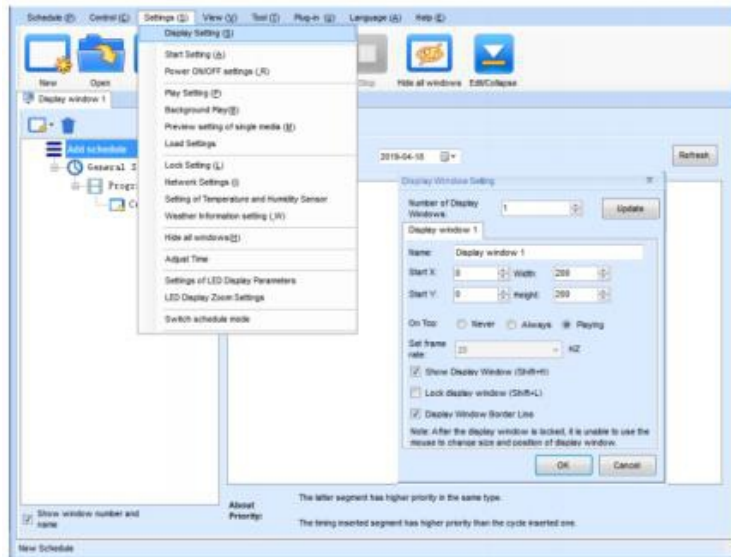① The playback software has three modes: simple mode, professional mode and page priority mode, among which the "professional mode" is most commonly used, so this section only introduces the "professional mode".

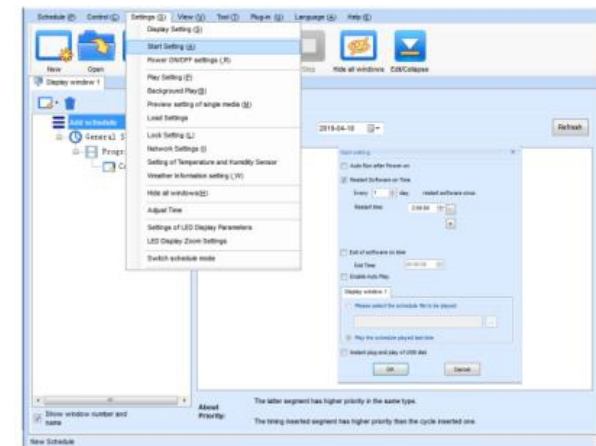② Start the software, click the "Settings" → "Switch schedule Mode"→ "Professional playing program".
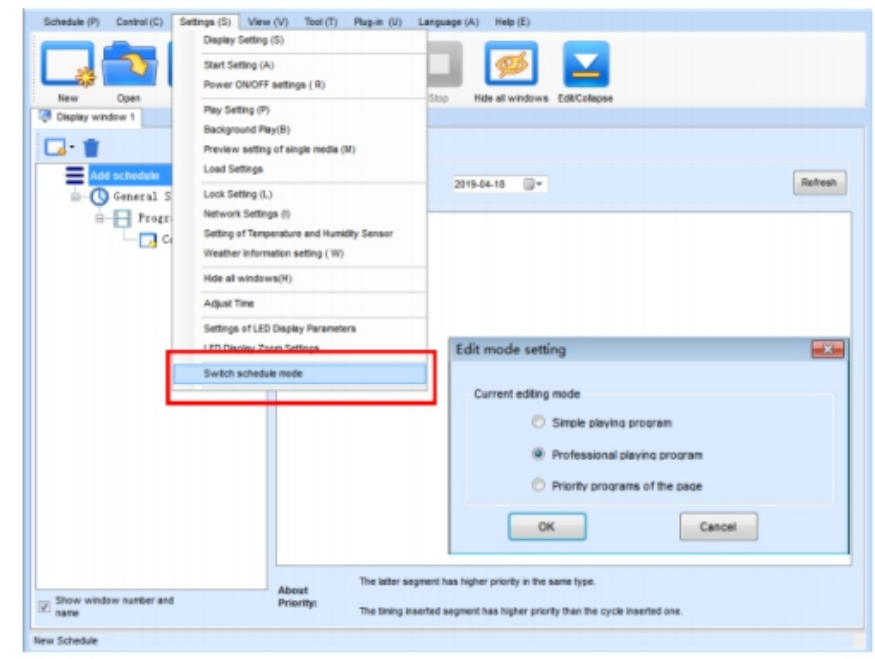
3) Playback Software Settings

In the main window of the software, click "Settings"→ "Display Settings" to enter the Display Window settings interface, as shown below:

■ Number of display windows: the number of displays. To increase or decrease the display, re-enter the number of displays in the " Number of Playbacks" and click " Update" .

■ Start X: The horizontal starting point of the playback window.

■ Start Y: The vertical starting point of the playback window.

■ Width: The horizontal pixel value of the display.

■ Height: The vertical pixel value of the display.

■ Other options are set by default values.

4） Startup Settings

① Click the "Settings" on the main window, select" Start Setting" to enable the software to automatically start when the computer turns on, and automatically start playing a program, as shown below:


■ Auto Run after Power-on: Nova Studio will operate automatically in the next time when the computer is turned on.

■ Restart Software on Time: Set the restart interval and restart time then clicking "OK", Nova Studio will restart automatically when it reaches the set restart time. After restart, the window information and play_x0002_back status before restart will be automatically restored.

■ Exit of software on schedule time: After setting the exit time, the software will automatically exit at the schedule time. This function will avoid uploaded data damage caused by forcibly exiting the software.

■ Enable Auto Play: specify a schedule file, the software will automatically play the set video after each boot.
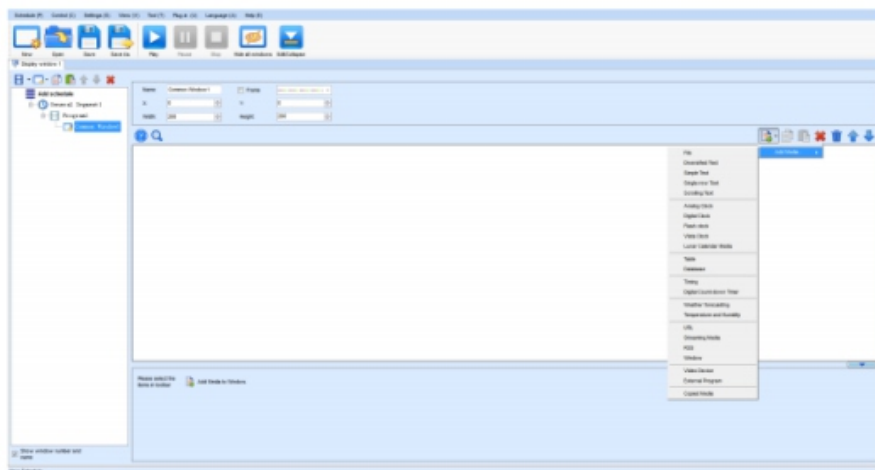
5） Edit Program

① Right click on " General Section " or click the "Add schedule" to add a new program page, as shown below：
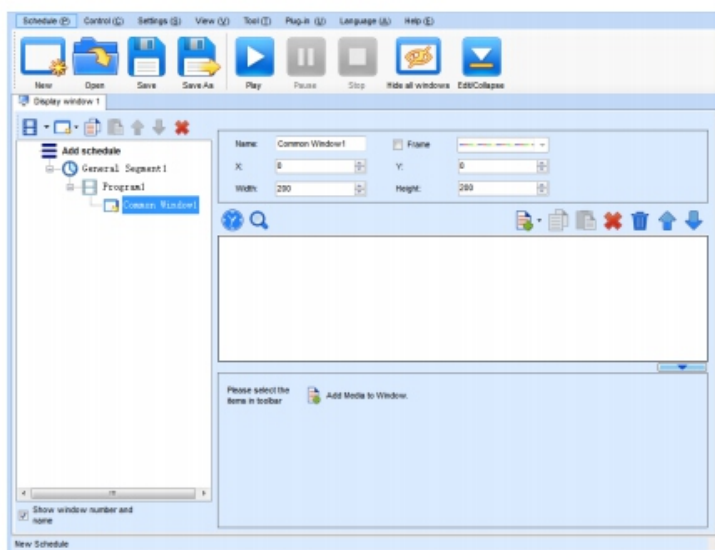
② Add a new display window to the video. Edit the window properties as shown below:
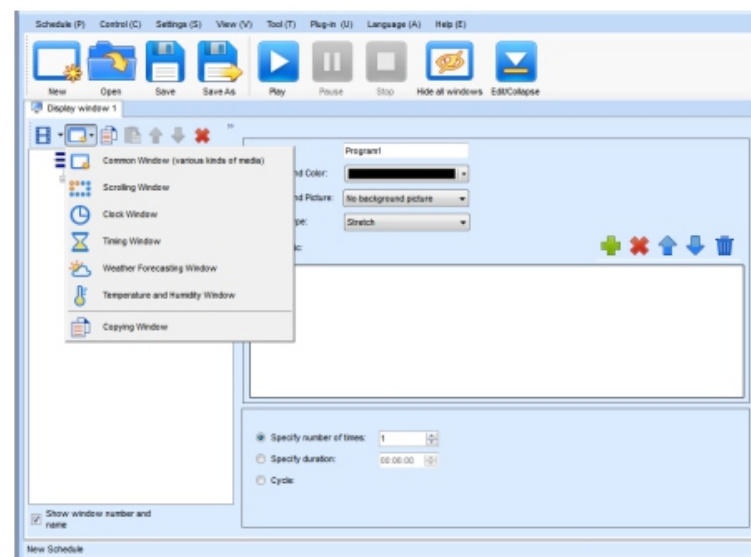
③ After adding a new media window, you can select different media types to add to the media list as shown below:

Remarks:

1. Above operation steps are based on standard product and standard software version, and the actual operation steps may be different. Our company will modify the contents of the manual without further notice.

2. For more detailed operation, please refer to the specification of the specific software system.

3. If you need technical support, please contact us.

6） Preview and Play

① After editing, select a page to preview the display effect in the playback window.

② Click "Play" to start looping from top to bottom. Click "Stop" to stop playback.

7. Common Troubleshooting

7.1 Control System Troubleshooting

No.	Fault	Troubleshooting
1	Software shows "No Hardware"	Check whether the hardware is powered on and the serial cable is connected properly.
2	Software shows "No Screen Info."	If the screen has already been configured with screen information, try reading from the hardware on the screen connection page. If the screen has not been configured before, the screen information needs to be configured.
3	Screen display errors	First check whether the sending card resolution of the sending card page is as same as the display output resolution. If not, set same resolution figures for sending card and display output. If the resolution is same, check that the parameters of the Intelligent Settings wizard are input correctly.

7.2 Hardware Troubleshooting

No.	Fault	Troubleshooting
1	Partial screen is black after power on	① Check whether the cable in the cabinet is not in good contact. ② Check whether the power cord in the cabinet is not in good contact.
2	Display data corruption after replacing module or bridge board	Power off and restart the display, enabling the bridge board re-reads the module data.
3	White lines appear in the display area	After replacing the LED module or bridge board in the fault display area, power off and restart the display.
4	Disorganized picture on the whole screen or part of the screen	① Check the connection order of the display sending card port. ② Check the display signal cable connection sequence.

8. Parts Replacement

8.1 Module replacement (front access): Step 1 : remove 4 screws at the top of display module , as shown in the red circle in Diagram 1 below.
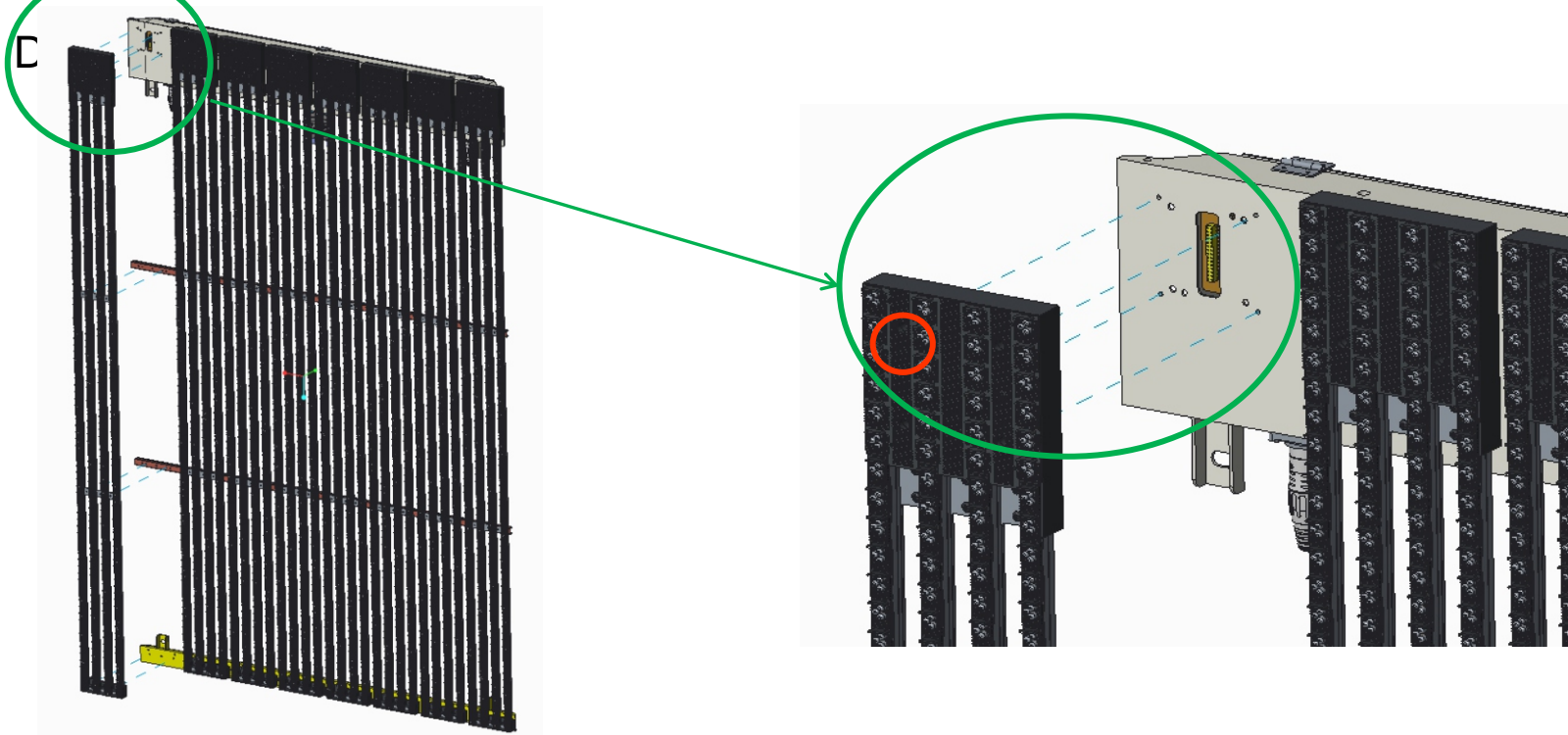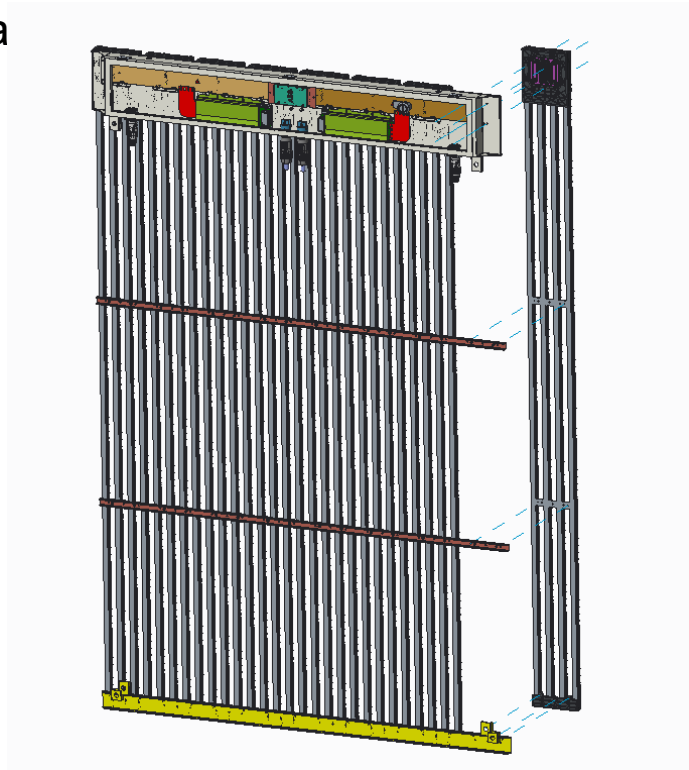
8. Parts Replacement

8.1 Module replacement (front access): Step 2:   remove 2 screws at the bottom of   display module,   as shown in the red circle in   Diagram 1 below.
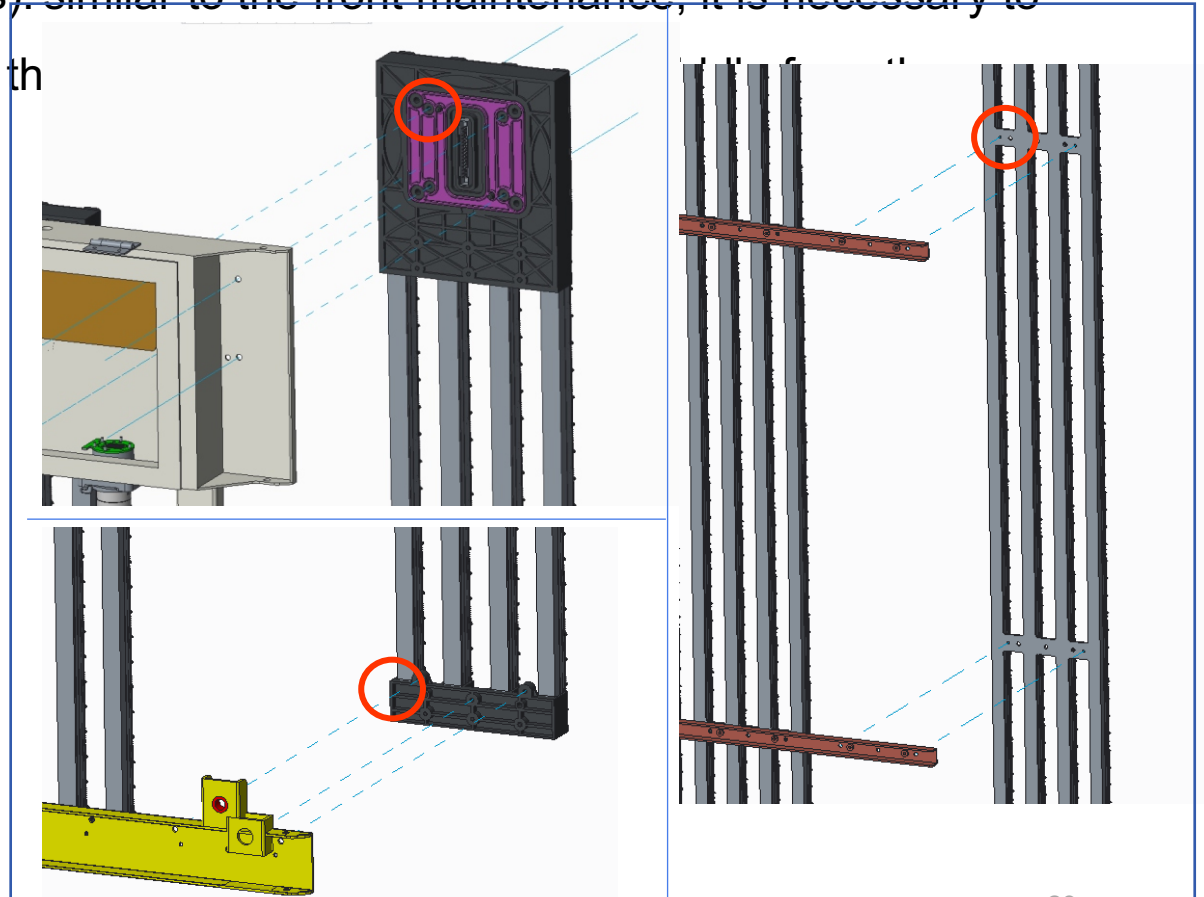
8. Parts Replacement

8.2 module replacement (rear access): similar to the front maintenance, it is necessary to remove 4 screws at the top, 3 screws at th~~...~~ ~~...~~
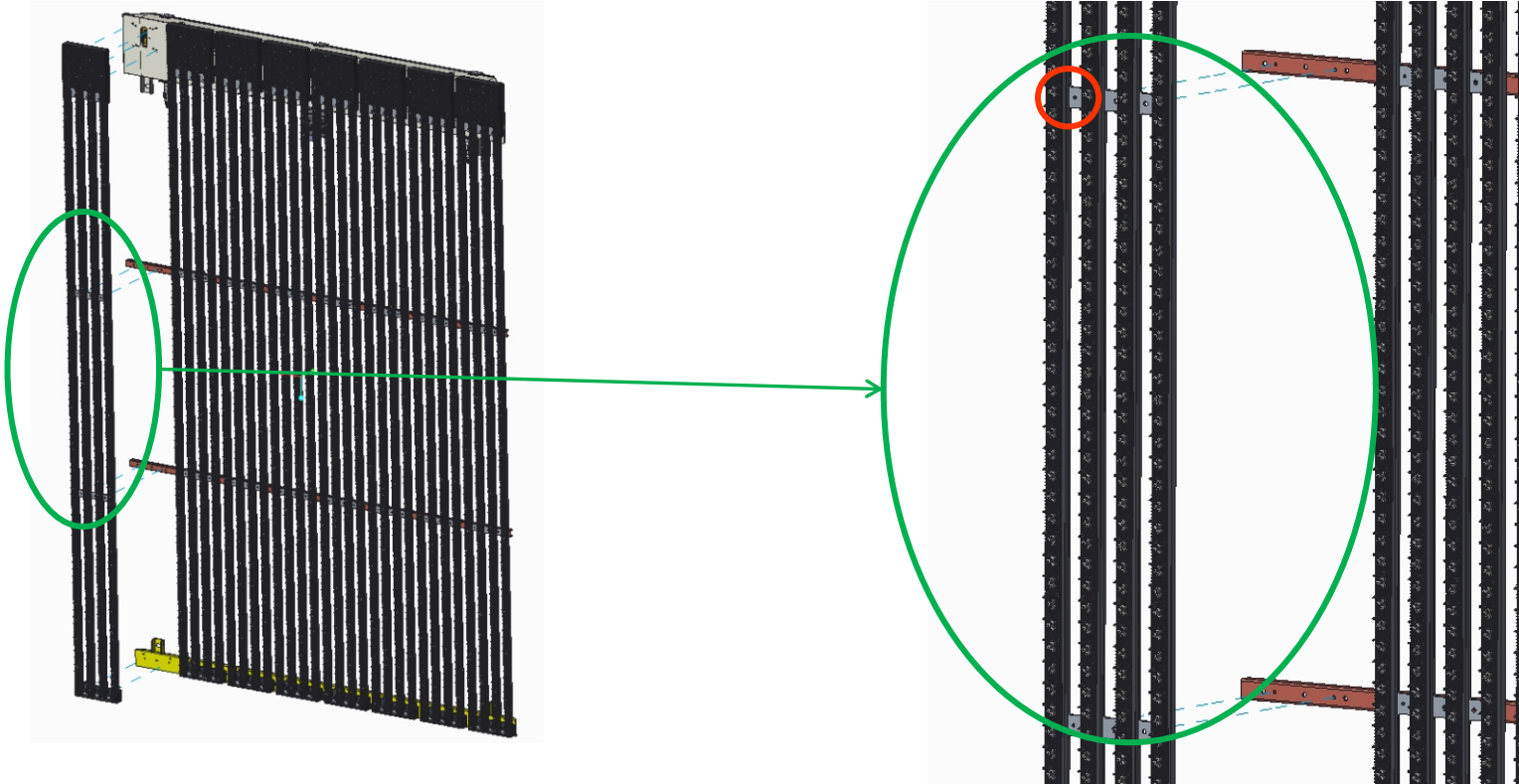
ba~~...~~ ~~...~~s.

8. Parts Replacement

Module replacement (front access): Step 3　: remove 4　screws on the
reinforce bars,　as shown in the red circle in Diagram 1 below.

8.3 distribution board, hub board and receiving card replacement:

Unplug all external cables of the faulty distribution board/ bridge board, as well as power cords, and remove all fixing screws (the specification of fixing screws is cross recessed pan head flat elastic pad combination screw M3 * 6) with an cross head screwdriver. The following figure is only a reference diagram.

Left Distribution Board

Hub Board & Receiving Card

Right Distribution Board
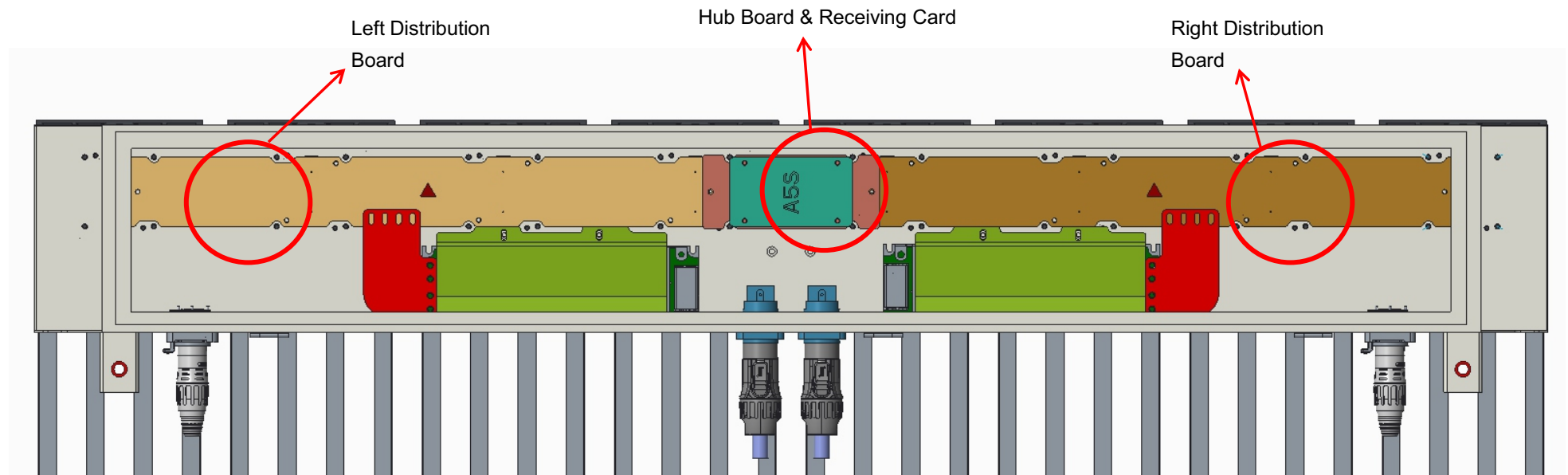
8.4 Power Supply Replacement：

The replacement of power supply must be carried out under the power-off mode, and live operation is prohibited; When replacing the power supply, remove all fixing screws, remove all external cables and power supply fixture plate and the busboard before replacing the power supply.,

Power Supply
Fixture Plate

Bus Board
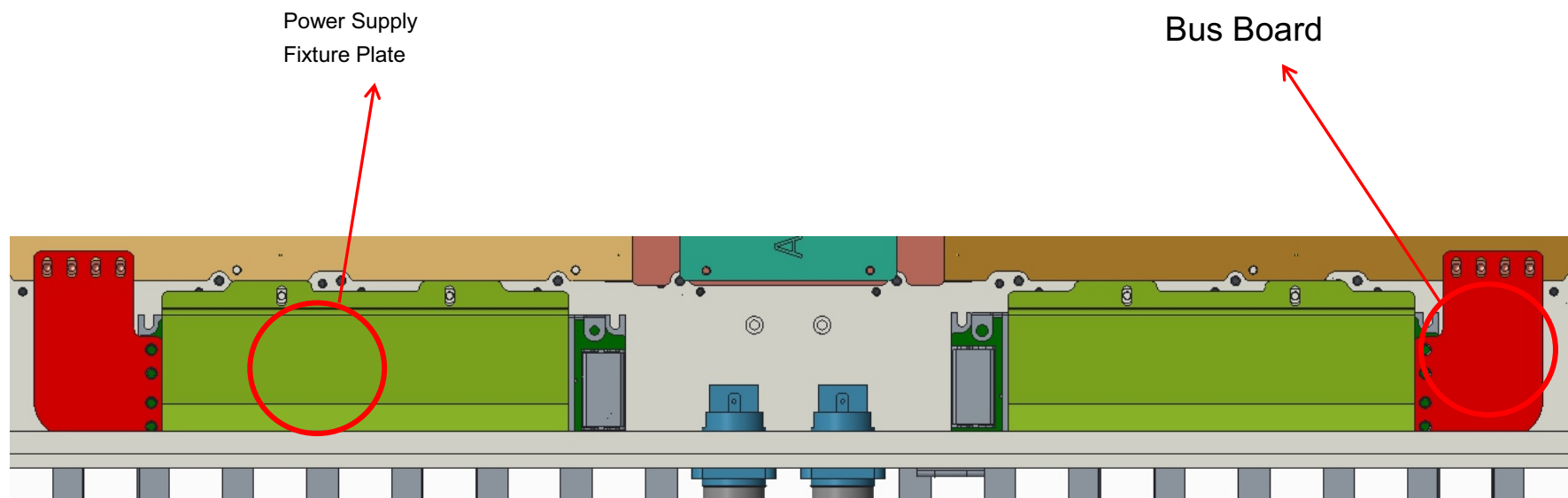
9. Product Maintenance

1） It is recommended that all installation parts shall be inspected regularly. For important parts, the inspection frequency should be increased. If the parts are damaged, the load processing capacity may be reduced. The damaged parts must be removed immediately for maintenance or replacement.

2） It is suggested that the LED display screen should be equipped with a exclusive computer without installing software unrelated to the display screen and regularly sterilizing other storage devices such as USB flash drive. The working mode of the LED display screen is a copy mode, and the sound and image are displayed synchronously with the computer. Therefore, the computer should not be used for other purposes or play or watch unrelated videos on it, so as not to affect the playback effect. Non-professional personnel should not dismantle or move the device related to the display screen.

3） New screen test run: The new screen stored within 3 months can be worked with normal brightness. The new screen stored for more than 3 months shall be set to 30% brightness for the first time, run continuously for 2 hours, shut down for half an hour, and then set the brightness of the screen to 100% for 2 hours. Observe whether the LED screen is normal or not, and then set the brightness of the screen according to the requirements.

4） LED display is an electronic product. It is recommended to open the screen regularly. For the screen which has been installed indoors and has not been turned on for more than 15 consecutive days, the brightness of the screen should be reduced when it is used again. The process should refer to the trial operation of the new screen, and the screen can not work in high brightness mode and run continuously in white.

10. Warranty and After-sales Service

10.1 Warranty Policy

Our company provides high-quality after-sales service for B71/B56 products with 1 years warranty (the specific warranty shall be subject to the contract). In order to meet the long-term quality assurance requirements of our customers, we can provide extended warranty services. The specific policies can be consulted with sales representative.

10.2 After-sales Service

If you encounter any problems during the operation, please contact your sales representative, and we will arrange professional and technical personnel to provide support at the first time.

11. Special Statement

1）Intellectual Property Rights Statement: The hard design and software program of this product are pro copyright, and any copy of the contents of this produ manual without the authorization of the company, corresponding legal liability will be assumed.

2）The contents of this manual are for reference on not constitute any form of commitment.

3）The Company reserves the right to improve and design of products without prior notice.