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Mwall Series LED Screen User Manual V1.0



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CAUTION

Warning: This is a CALSS A-level product. In the living environment, this product may cause radio interference. In this case, the user may be required to take practical actions for the interference.



Caution 1:

in order to avoid any physical damage, please read carefully the User Manual before connecting the switches.

1. LED screen should only be operated by trained professionals.
2. Do not expose any part of the LED screen to naked flame/smoke.
3. Personnel operating the LED screen are advised to wear a safety helmet during operation.
4. Check all the AC power is connected before turning on the switch.
5. Turn off all switches of the LED screen, computer terminals, system box and monitors before performing any maintenance work.
6. Do not touch the power supply when the switch is turned on.

Caution 2:

Please read the installation and operation instruction manual carefully in order to make sure the normal lifespan of LED screen and avoid any damage of electronic components, device driver and lose of data.

1. Turn off all switches including LED , computer terminal, system box and monitor before connecting any cables.
2. Wear Anti-static ring before replacing any electronic components.
3. Do not hot plug any cables connected to computer terminals while the power is running. Ensure that all power is disconnected before unplugging any cable from the ports especially the serial line ports.
7. In order to ensure the safety, please check the condition of power cables once a year.

Caution 3:

1. Making sure the LED screen should be properly grounded before working.

Caution 4:

1. The use/storage environment of the LED screen should be performed according to the requirements of the parameter table, otherwise it will seriously damage the display screen;
2. The cabinet should avoid working in the environment with high content of organic solvent detergent (such as kerosene, anti-rust oil, etc.).

Caution 5:

1. Warnings regarding to the CE certification:

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

2. Warnings regarding to the FCC certification. This device complies with Part 15 of the FCC Rules:

(1) Operation is subject to the following two conditions: (1) this device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could cause the user can not operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and radiate radio frequency energy, and if it is not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

Special statement:

If you need to repair or modify this product, please contact our company in advance.

Warranty Period:

In principle, the product warranty period is based on the product warranty period specified on the quotation.

During the warranty period, our company will not guarantee any problems due to the following reasons.

- Problems caused by the user's arbitrarily dismantling the product or failing to perform maintenance properly.
- Problems caused by incorrect transport and storage.
- Problems caused by the use of exceeding the rated parameters of the product.
- Problems caused by improper installation.
- Problems caused by fires, earthquakes, storms, floods, lightning and other natural disasters or riots, wars, radioactivity, etc, and other natural and man-made disasters.

Signs of restricted use of hazardous substances in electrical and electronic products



1.The logo indicates that the environmental protection use period of electronic and electrical products is 10 years.

2.It means that the electronic and electrical products contain some harmful substances and can be safely used within the environmental protection period. After the environmental protection period, they should enter the recycling system.

PREFACE

Mwall series products adopt integrated aluminum alloy casting cabinet, which is lighter than iron cabinet, and ensures the accuracy of the cabinet, bringing a smoother screen installation effect. Modular is designed with magnetic suction for positioning and enhance the module fitting levelness and speed of module disassembly and assembly. The lamp board PCB fits the box frame, reducing the cumulative error of the bottom case and improving the flatness. Graceful and neat outlook and can be installed conveniently and quickly with our ergonomic handle design.

Module, HUB board and receiving card are all coupling hard connection, more stable and safe; Fire rating reach up to V-0 to eliminate fire hidden danger; Cabinet bottom is designed with anti-bump and convex to protect the led and reduce collision; Screen refresh rate highly reach up to 3840Hz, and has rapid response for drive decoding to get rid of image residual, and the screen play is delicate and fluent; Screen has 9000:1 high contrast ratio to improve the contrast of light and shade, and the screen image is more brighter; With 160° ultra-wide viewing angle, screen has no color bias, no blind angle, and close viewing is not easy to visual fatigue. The cabinet has excellent heat-removal system, which is uniform, and it is to ensure the service life and display effect of the screen. The cabinet comes with test function to make you feel free of worry during installation, because the whole cabinet can make front and rear self-inspection before installation; And the maximum outer arc of the cabinet connection is 10° (P3.9/4.8, max 10°outer arc; P2.6/2.9, max 5°outer arc) to meet more needs of screen installation type. The thickness of the cabinet is 65mm and the weight is only 6kg. It can be installed on the wall to save the installation cost and space. And power, signal and radian connectors can be customized. The cabinet uses the quick lock structure (optional) to install faster; It is conveniently supported with ground installation, wall sticking installation, embedded installation, and then it can meet more site installation requirements. Applications: hotel, school, shopping mall, multi-functional hall of enterprise and institution, conference room, various stadium, station and dock etc.

Tips: If there is no special instructions, the operation method of all the display screens of this series is the same as this manual.

Chapter 1 LED Cabinet

1.1 Cabinet Outline Drawing

The Mwall box is divided into 500*500 wire connection power supply cabinet and 500*500 air plug power supply cabinet. As shown in Figure 1.1.1~1.1.2.

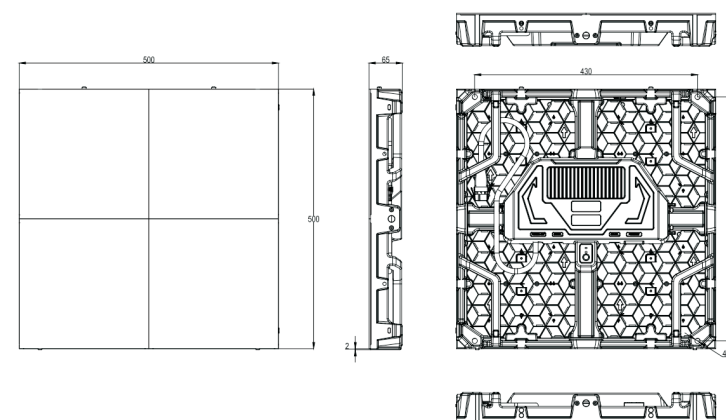


Figure 1.1.1 Outline drawing of Mwall wire connection power supply cabinet

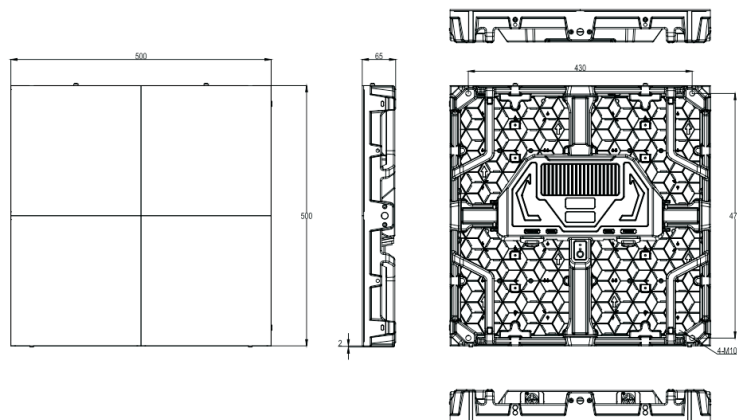


Figure 1.1.2 Outline drawing of Mwall wire connection power supply cabinet

1.2 Cabinet Structure

The cabinet is composed of two parts, cabinet frame and module. The cabinet frame is composed of cabinet border, cabinet locating pin, power connector(wire connection power supply), signal network port, test button, power supply, HUB, magnetic suction seat, receiving card and so on. The module consists of lamp panel, bottom shell, bottom shell handle, magnet and female Header.As shown in Figure 1.2.1~1.2.3.

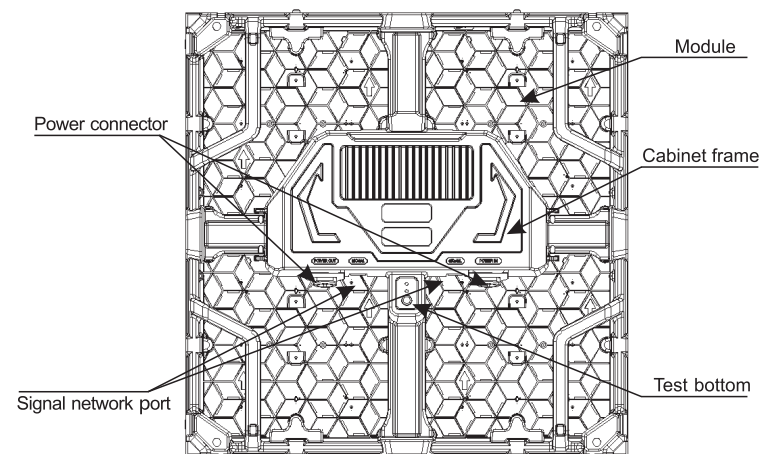


Figure 1.2.1 (500*500 Cabinet)

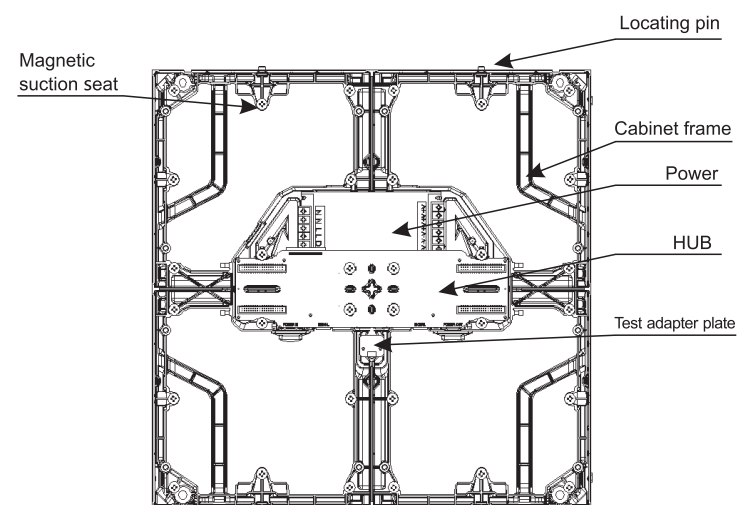


Figure 1.2.2 (500*500 Cabinet frame)

Chapter 2 LED Screen Installation

2.1 Stack Installation Instruction

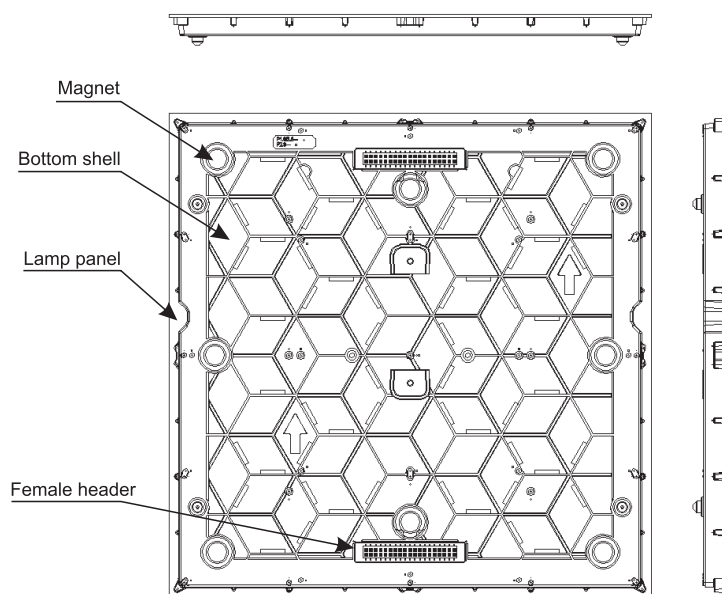


Figure 1.2.3 (500*500 Cabinet frame)

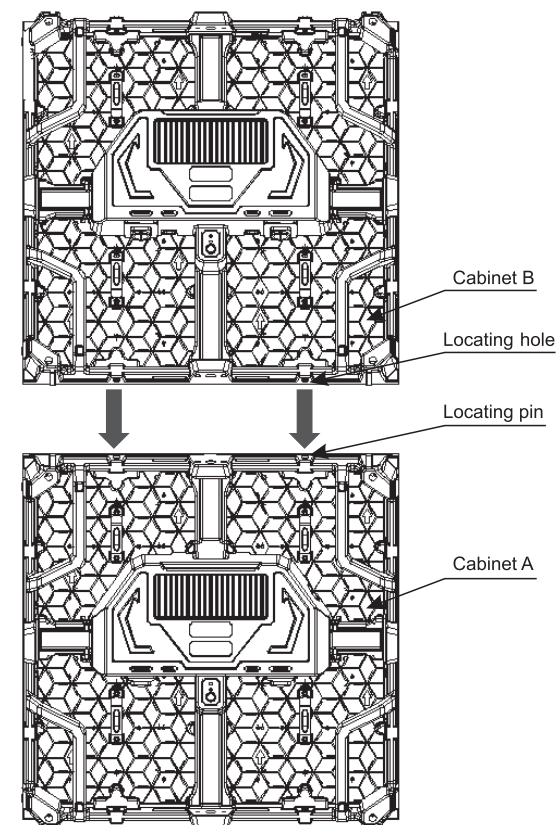


Figure 2.1.1

As shown in Figure 2.1.1, cabinet B falls on top of cabinet A, and the locating pin of cabinet is aligned with the locating hole of cabinet B during stack installation.

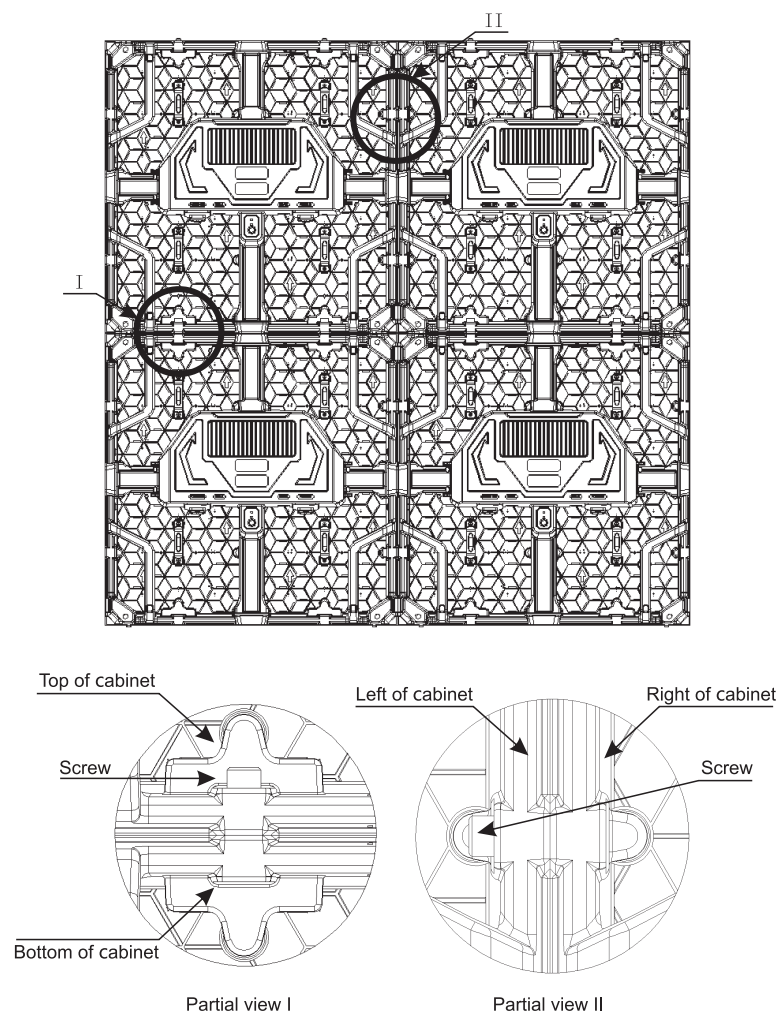
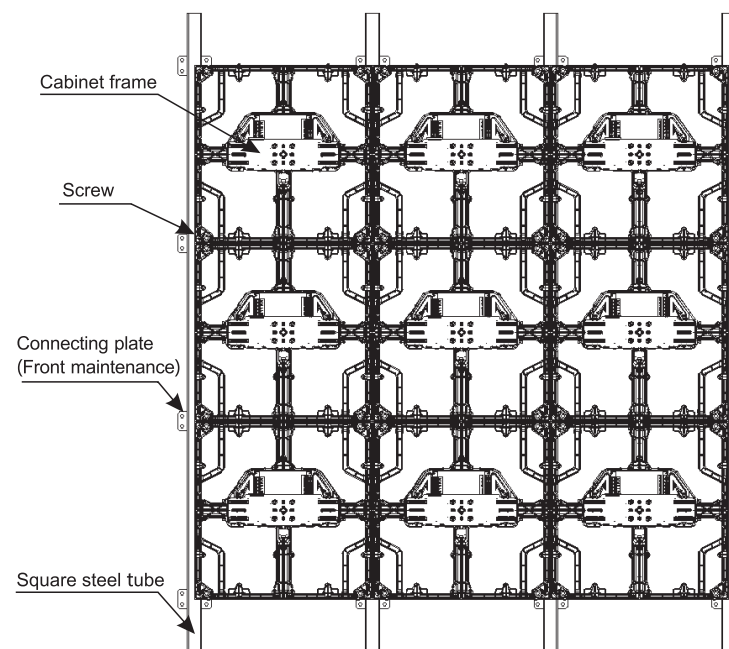


Figure 2.1.2

As shown in Figure 2.1.2, the above figure is the cabinet's schematic diagram of left and right connection and up and down connection. Top of cabinet and bottom of cabinet and left of cabinet and right of cabinet are connected with screws.

2.2 Stack installation and use

Mwall cabinet stack installation can be divided into front maintenance wall mounting or rear maintenance channel mounting. Cabinet wall mounting: when the cabinet frame is assembled, it shall be fixed through square steel tube and cabinet by the connecting plate (front maintenance), as shown in Figure 2.2.1. Installation of rear maintenance channel cabinet: when the cabinet frame is assembled, it shall be fixed through square steel tube and cabinet by the connecting plate (rear maintenance), as shown in Figure 2.2.2.



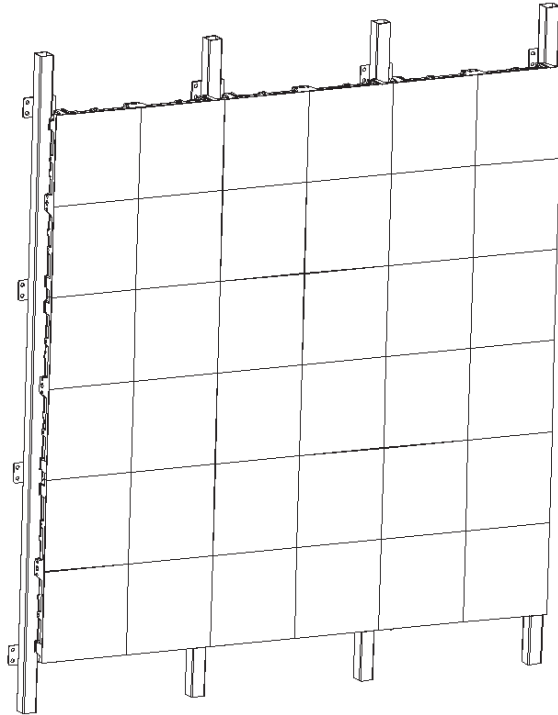


Figure 2.2.1

As shown in Figure 2.2.1, during the installation of front maintenance wall mounting, the cabinets and the connecting plates are fixed with screws at the four corners of each cabinet from the direction of face cabinet module. Finally, connect the wire and install the module.

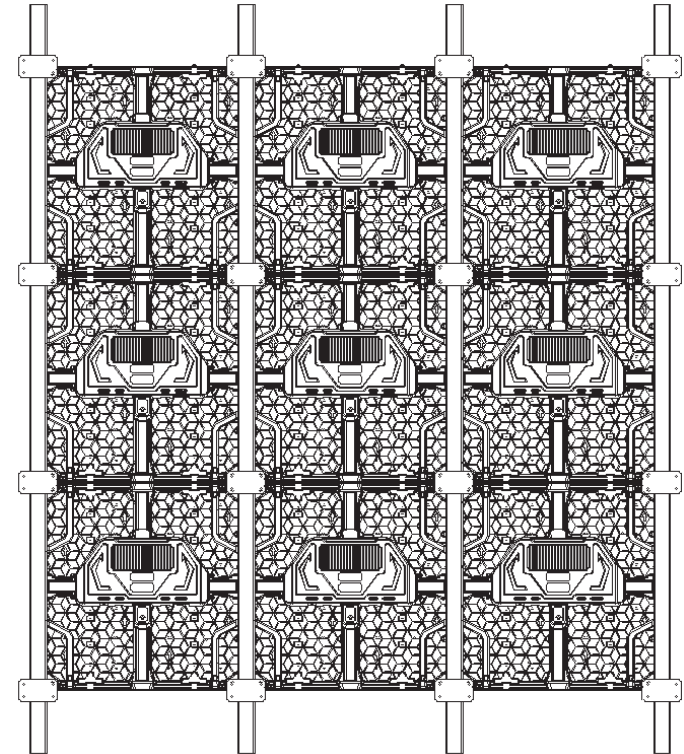


Figure 2.2.2

As shown in Figure 2.2.2, during installation of the rear maintenance channel, the cabinet and the connecting plates are fixed with screws from the direction of back of cabinet module. Finally, connect the wire.

2.3 Dislocation installation type

Mwall products are designed with many dislocation mounting holes to provide customers with more creative connection possibilities, including up and down dislocation and left and right dislocation connection. Specific methods are shown in Figure 2.3.1~2.3.2.

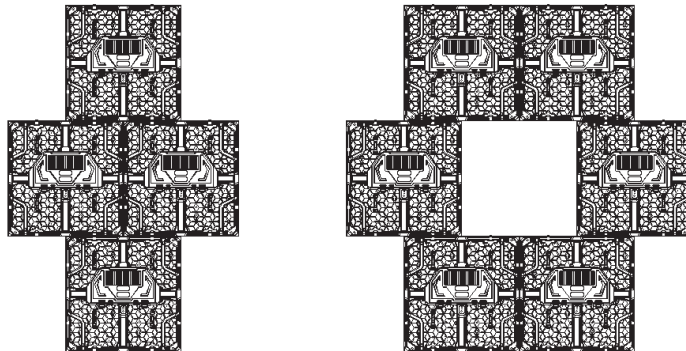


Figure 2.3.1 up and down dislocation drawing

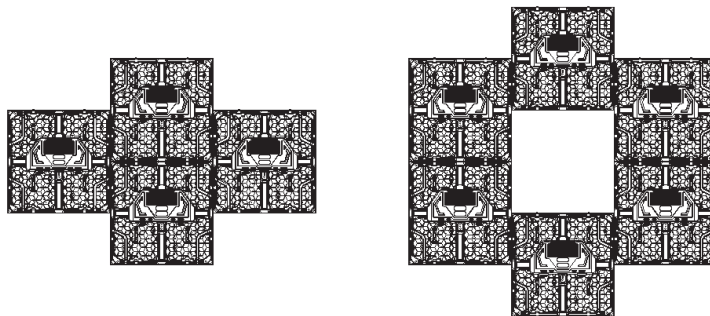


Figure 2.3.2 left and right dislocation drawing

Chapter 3 Frequent Asked Questions for LED screen

3.1 Software Questions

1. Connection interruption or prompt unable to find the control card when starting the software, or the interface of the software is not adjustable, that is, gray status, and there is no main controlling icon of the software LED control equipment list.

Solution:

- ① Change USB cable.
- ② Check the equipment connection in the equipment manager.
- ③ Ensure that the computer is no virus.
- ④ If it is the internal sending card, it is probably due to the loose slot or damaged PCI, or the interference of foreign matter. Please insert sending card again or clean PCI interface by rubber.

2. Indicator light of the output port for sending card is extinguished.

Solution:

- ① Relevant control software has not been installed, please ensure the software is successfully installed .
- ② The FPD of the graphics card is closed. Please right click "my computer" on the desktop, and then click properties-> setting-> advanced> display-> FPD.

3.2 Hardware Questions

1. There is no content on the LED screen.

Solution:

- a. Check whether the screen is powered on.
- b. Check whether the output signal is open.
- c. Check whether display area is correct.

2. The cabinet of the LED screen is blurred or not bright enough in certain cabinets.

Solution:

- a. Check whether modules and HUB card is connected.
- b. Check whether the configuration file is uploaded correctly.

- c. Check whether the calibration is open or correct.
- d. Please change the broken masks if there is.
- 3. The picture of the cabinet is in a wrong order.

Solution:

- a. Please check the inner connection of each LED module to see if cables are well connected.
- 4. Some individual LED lamps are extinguished.

Solution:

- a. Please repair these dead LEDs.

Chapter 4 LED Screen Maintenance

Proper use of the LED screen is very important for the long lifespan of the LED screen and the proper function. Daily maintenance of the LED screen must be finished carefully.

1. Please read the Mwall series LED Screen User Manual carefully. The manufacturer do not take any legal liability of the consequence due to the incorrect, incomplete, irresponsible, or unsafe use of the installation system.
2. Handle the LED screen cabinet with care, avoid collision and strike.
3. Check the cabinet carefully to make sure there is no loose screw before using.
4. Please confirm the steel frames are kept in place firmly before installation, for the screen already been installed for a long time, regular checking the situation of the connection part is required. If found any loose part, adjust it timely, reinforce or change new hanging parts in time.
5. Keep the whole cabinet frame structure away from oil, acid and other corrosive material.
6. Pay attention to the anti-static work of the screen body, do not touch the LED face directly by hand, wearing gloves when you install and debugging of the screen is recommended.

7. Null wire and live wire of the power cable in a computer or the control system can't be connected reversely, It should be connected strictly according to the original position.
8. If the power switch trip happened frequently, please check the screen or replace the power supply switch.
9. Before lighting the screen, turn on the PC first, then turn on the LED screen. When stopping work of the screen, first turn off the LED screen, then turn off the PC (otherwise, it will cause the screen highlights, burn the lamp, the consequences are serious).
10. If there is short circuit, switch trip, wire burning, smoke and other abnormal phenomenon after removing, please don't repeat electricity test, and check the problem timely.
11. Master the installation method, the original data recovery, backup, and controlling parameter setting, basic data preset modification.
12. Inspect virus regularly, and remove irrelevant data.
13. The control system software can't be operated by Non-professional personnel.
14. When installing and removing the LED screen, special attention must be paid to the protection of the LEDs on the four sides of the LED cabinet to prevent leds from damage.
15. Indoor screen should be moderately ventilated, which can make the water vapor attached to the screen evaporate quickly and reduce the relative humidity of the indoor environment. However, avoid ventilating on windless, humid days, which can increase indoor humidity.
16. For indoor screen, we can place desiccant indoors to adopt the physical method of hygroscopic, reduce the moisture in the air, and reduce the probability of damp;

17. If an air conditioner is installed in the display installation space, it can be turned on for dehumidification in wet weather;

18. Wet and rainy weather can cause the dew on the wall, please keep the cabinet away from the wet wall, to avoid contact with the dew on the wall.

19. Please keep the LED screen storage warehouse to be well ventilated, dry environment is a must. You can't let the wet weather inside the warehouse, please choose the high and dry location.