

AURORA SIGNAGE

Indoor Fine Pitch LTP LED Display Wall Mount LDC500XX-LTP

Models:

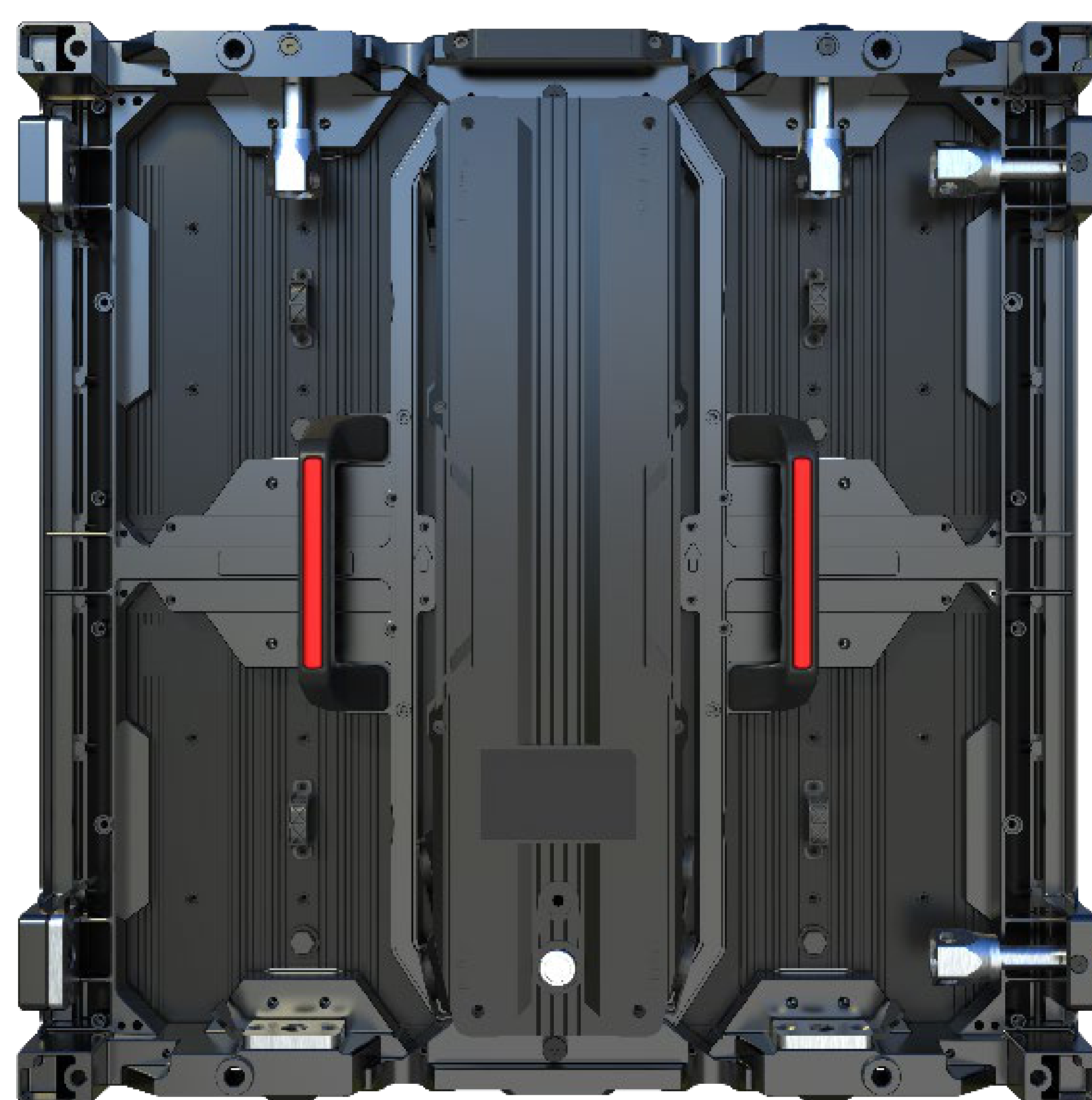
LDC50012FP-LTP

LDC50015FP-LTP

LDC50019FP-LTP

LDC50026FP-LTP

LDC50039FP-LTP



User Guide 02/24

Before installing or operating the unit, please read this User Guide

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1. Safety Information

This chapter contains important information to prevent personal injury and product damage when you install the display. Ensure that you understand and follow all the safety instructions and warnings in this chapter before installing.

Security

AURORA WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND RESULTING FROM A FAILURE TO IMPLEMENT PROPER SECURITY MEASURES ON TRANSMISSION DEVICES, UNAVOIDABLE DATA LEAKS RESULTING FROM TRANSMISSION SPECIFICATIONS, OR SECURITY PROBLEMS OF ANY KIND.

Defective pixels

The panel fitted to this unit is manufactured with high precision technology, giving a functioning pixel ratio of at least 99.99%. Thus a very small proportion of pixels may be “stuck,” either always off (black), always on (red, green, or blue), or flashing. In addition, such “stuck” pixels may appear spontaneously over a long period of use due to the physical characteristics of the organic light-emitting diodes.

Such occurrences do not indicate a malfunction.

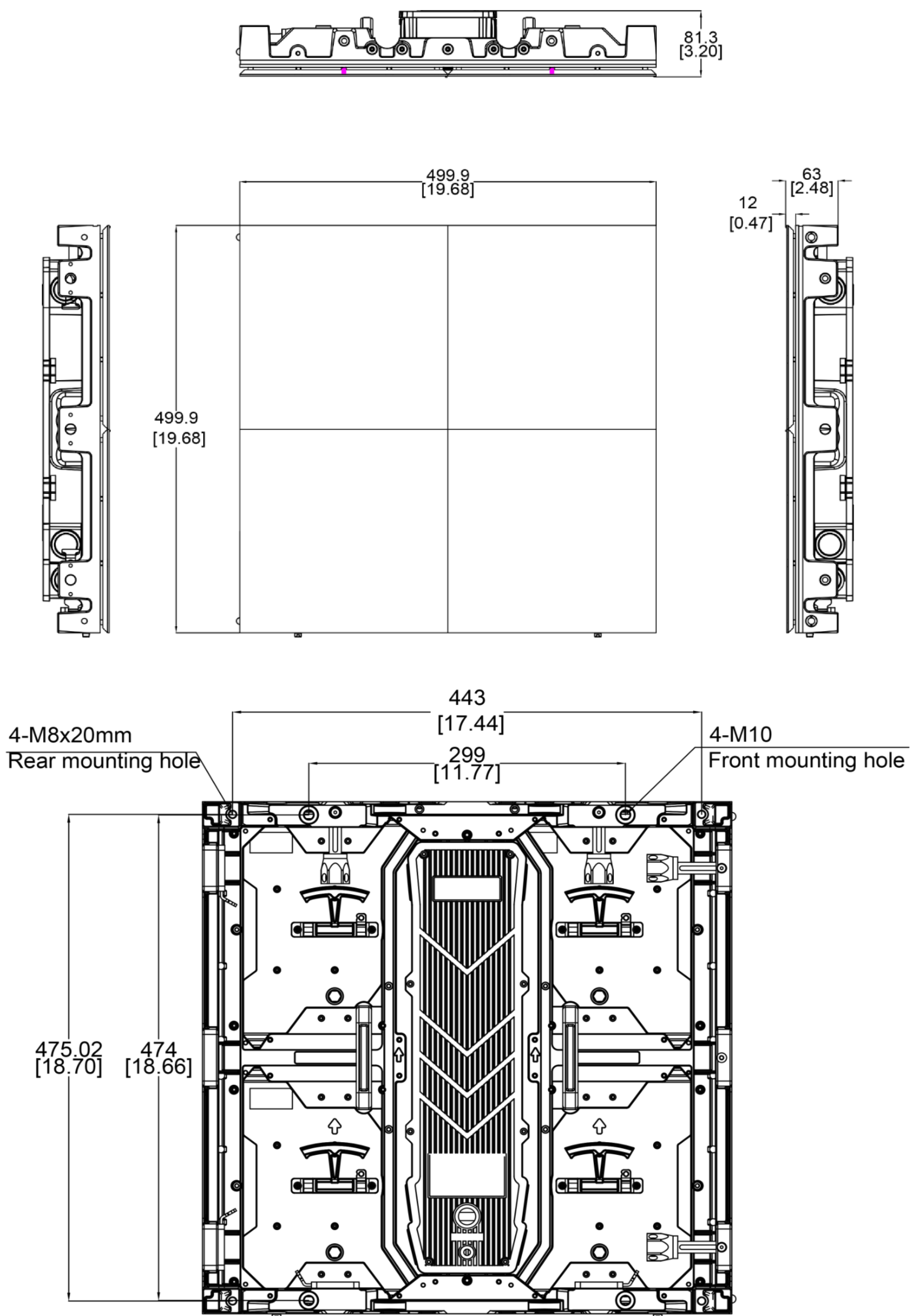
General Precautions

- Avoid getting the product wet. In the event of accidental contact with liquids, do not turn on the power, and contact a service representative.
- If an error or malfunction occurs or if foreign matter enters the interior of the product, turn off the power and discontinue use, and contact a service representative.
- Do not subject the front panel of the display units to damage or shocks.
- The installation and maintenance of this product must be performed by authorized and qualified technical personnel only. The manufacture does not take responsibility for the results caused by incorrect, improper, irresponsible and unsafe actions.
- Ensure that the display has adequate ventilations. Failure to do so may cause over heating.
- Install the LED display away from heat sources or flammable materials.
- I/O signal cables should be shielded to avoid high-frequency interference.
- This LED indoor product is designed only for indoor use. Do not install and use in an outdoor environment. Keep away from direct sunlight, dust and moisture.
- Do not attempt to open cover.
- Refer any service operation not described in this manual to a qualified technician.
- Keep the product away from flammable material.
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2.1 Product Overview - Specification

| LDC500X SPECIFICATION | Type | Value |
|-----------------------|------------|-------------------------|
| Pixel Pitch | LDC50012FP | 1.2mm |
| | LDC50015FP | 1.5mm |
| | LDC50019FP | 1.9mm |
| | LDC50026FP | 2.6mm |
| | LDC50039FP | 3.9mm |
| Cabinet Resolution | LDC50012FP | 400 x 400 |
| | LDC50015FP | 320 x 320 |
| | LDC50019FP | 256 x 256 |
| | LDC50026FP | 192 x 192 |
| | LDC50039FP | 128 x 128 |
| Cabinet Weight | All | 9.5kgs |
| Max Hanging | All | 16 cabinets high |
| Max Stacking | All | 16 cabinets high |
| Servicing | All | Front and Rear |
| Power Usage | All | Max 140 watts / cabinet |

2.2 Product Overview - Dimensions



3.1 Installation - Planning

Considerations:

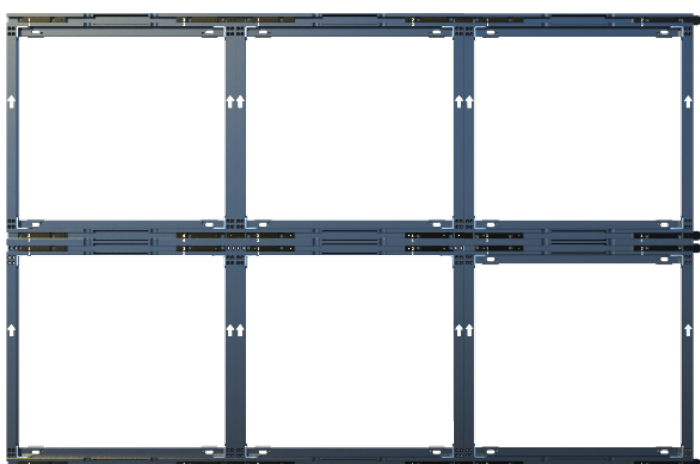
- 1. Ensure that the main structure can safely support the weight of the entire video wall and mounting hardware.
- 2. Ensure that the video wall has adequate cooling. We recommend a minimum of 10mm of clear space top and bottom of display for passive cooling.
- 3. Ensure that the power supply is correct and is capable of supporting the current of the video wall as outlined in the cabling diagram.
- 4. Ensure you have an adequate cabling diagram, including power and data inputs, interconnects and specifications prior to commencing works.
- 5. Ensure all power and data cabling is installed and tested in compliance with local, state, and federal building codes and laws.
- 6. Ensure all power connections, testing or other works are completed by a suitably qualified person.
- 7. Select appropriate screw or bolt to suit main structure and screen weight.

3.2 Installation - Parts (based in 1.5m x 1m screen size)

LDC500-LTP CABINET



LDC500-LTP MOUNT



MAIN POWER CABLE



MAIN SIGNAL CABLE



LINK POWER CABLE



LINK SIGNAL CABLE



3.3 Installation - Tools (not included)

SPIRIT OR LASER LEVEL



DRILL



HAMMER



BOLTS OR SCREWS



HEX WRENCH SET



M6 HEX SOCKET WRENCH



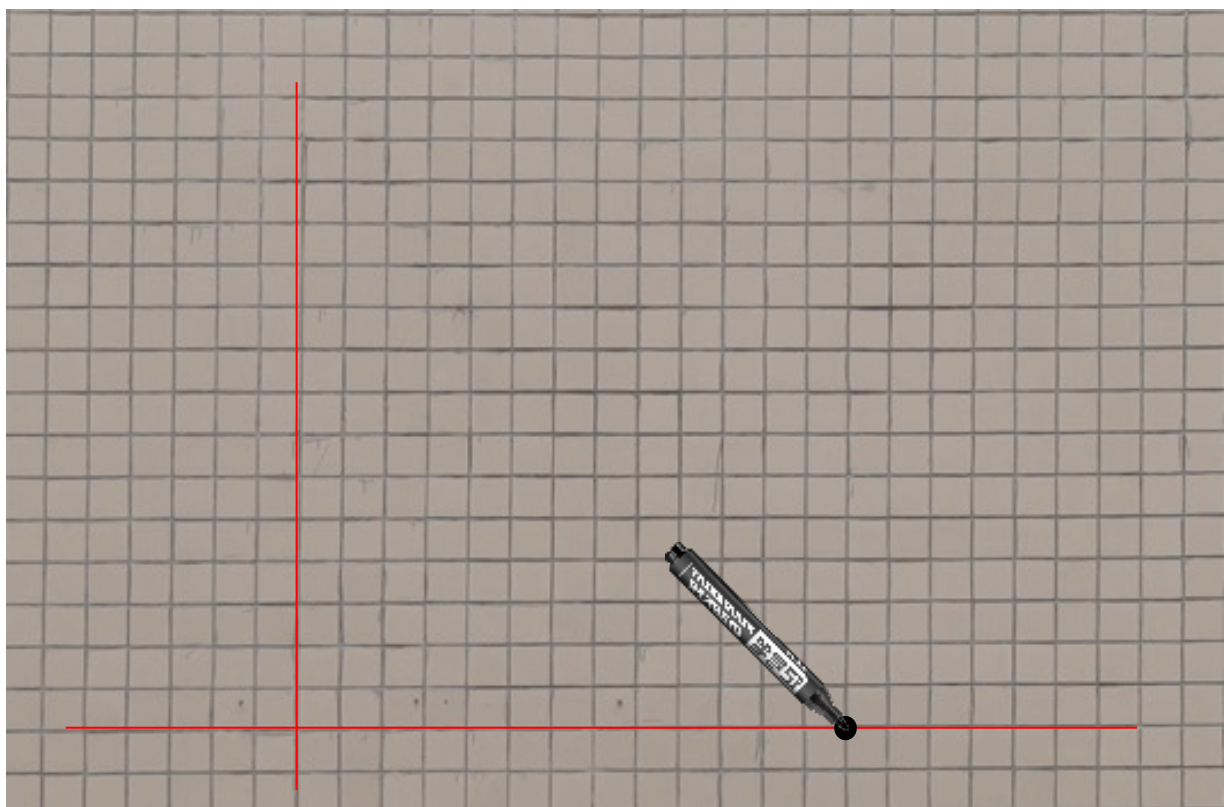
MARKER PEN



MAINTENANCE TOOL (included)



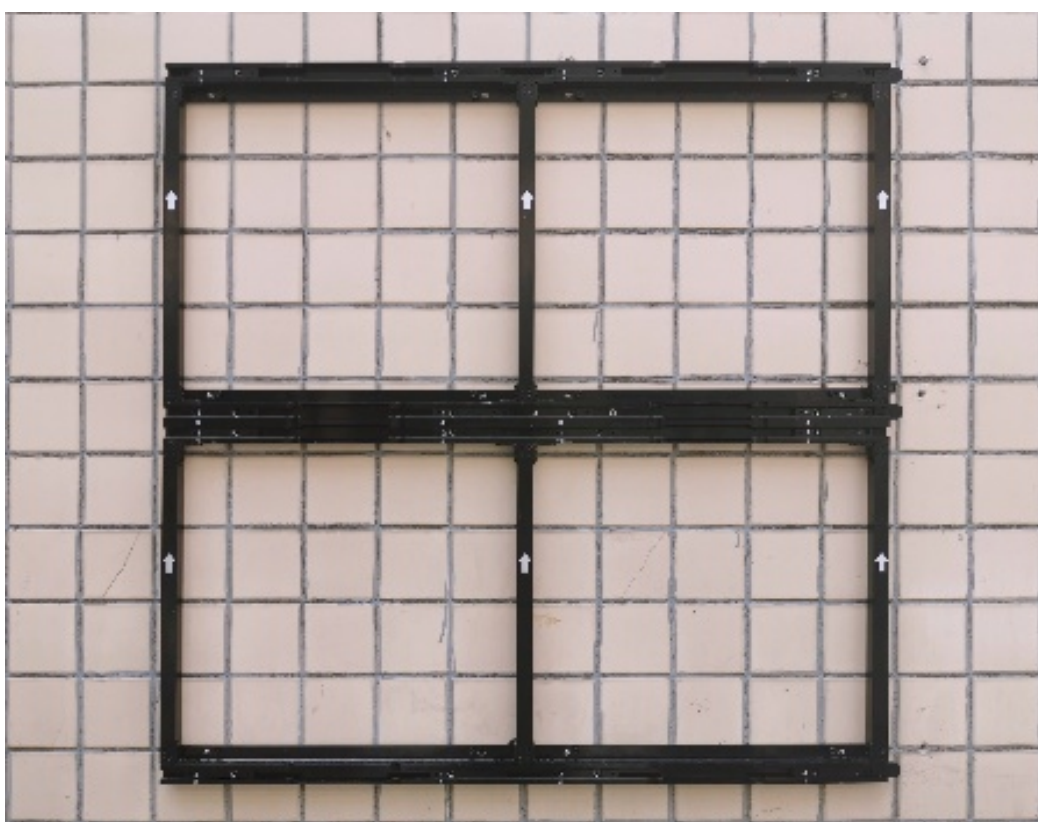
3.3 Installation - Wall Mount



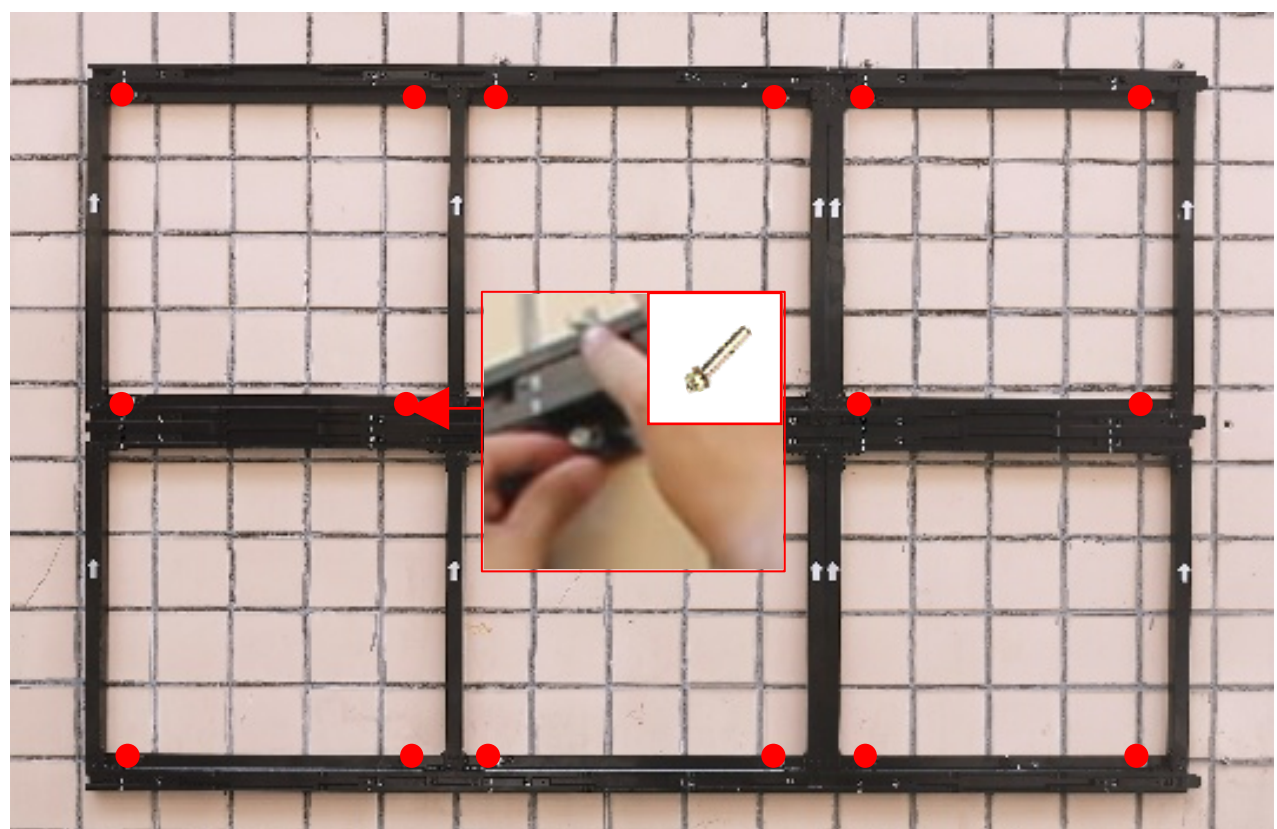
- 1. Draw and mark a horizontal line with an infrared, laser or spirit level on wall for top of screen.
- 2. Place top left wall bracket on wall to align with top line and mark mounting holes on wall.



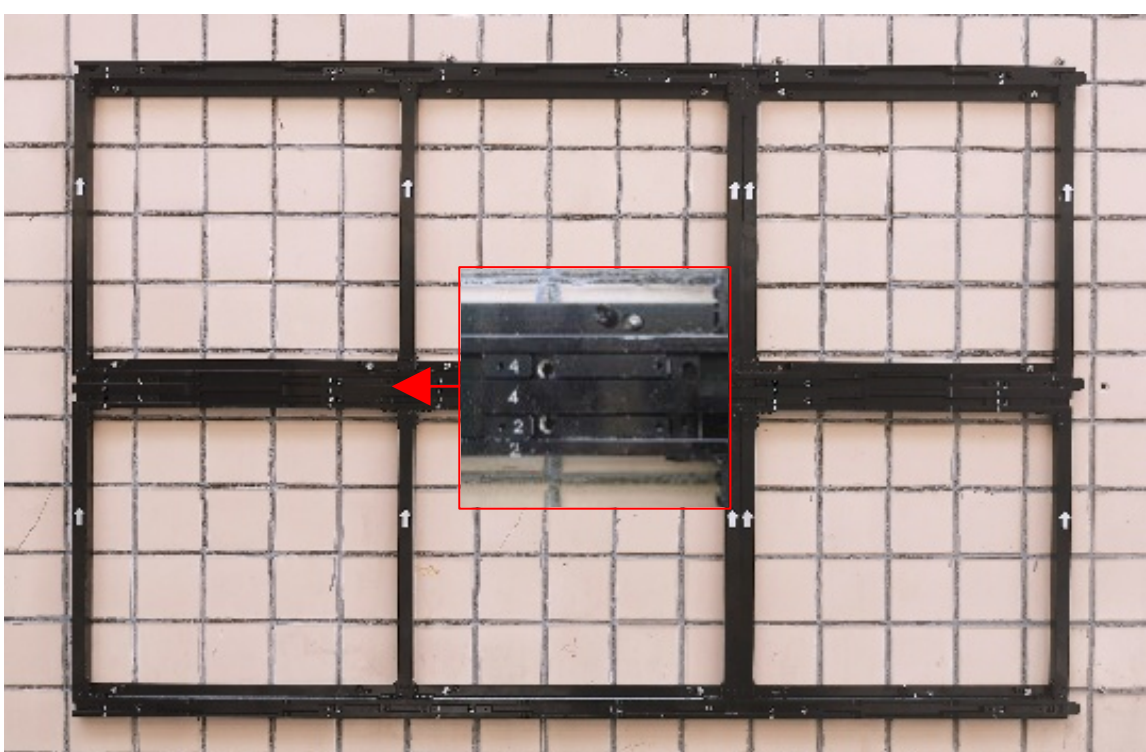
- 3. Drill pilot hole with appropriate drill and bit to suit wall and fixing bolt/ screw selected.
- 4. Insert expansion screw into wall as per manufacturers instructions (if using).



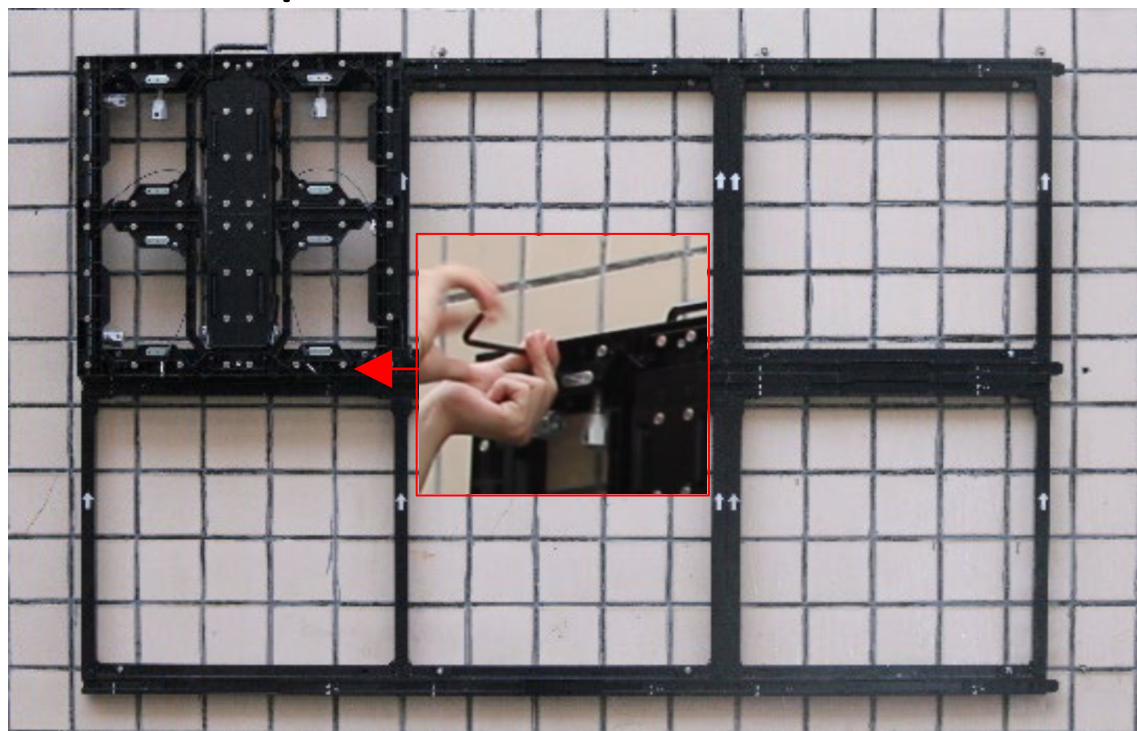
- 5. Fix top left bracket to wall with selected fittings.
- A total of 4 fixing points per 500mm x 500mm section shall be used.



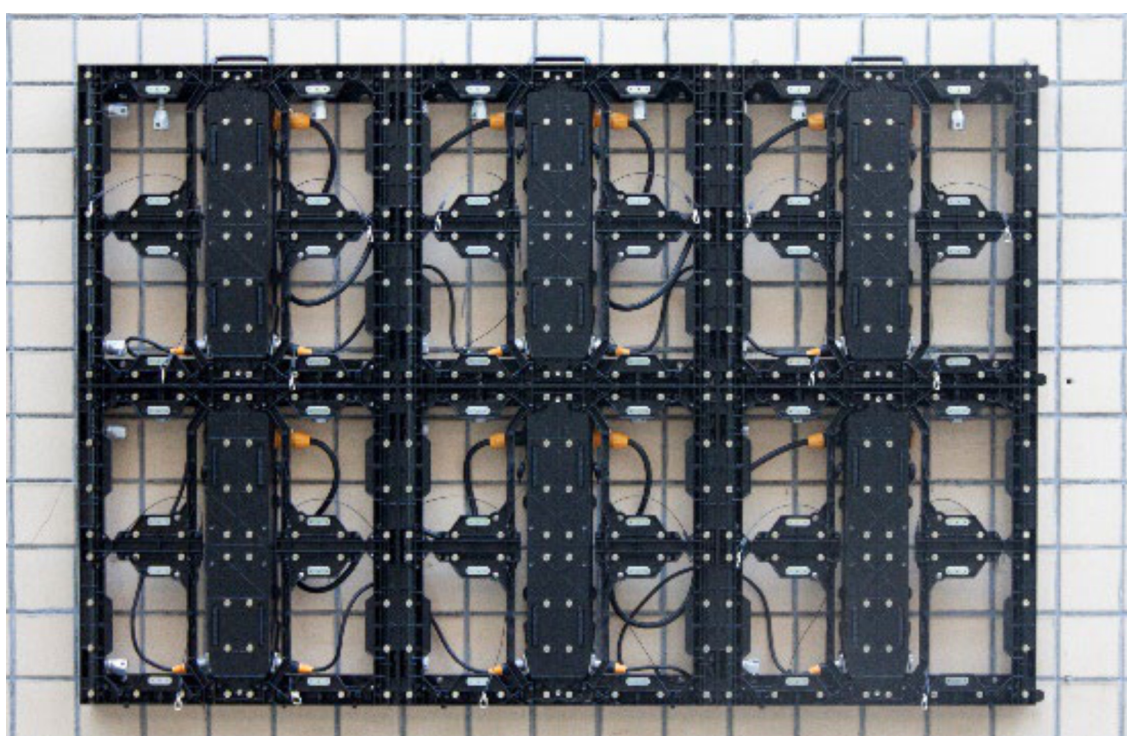
- 6. Join the next wall bracket in a horizontal direction and fix as per point 5, and then continue down, always working from top left, in a left to right and then top to bottom direction.
- Be careful to ensure that the wall mounts are aligned correctly to each other and are flat and uniform depth.



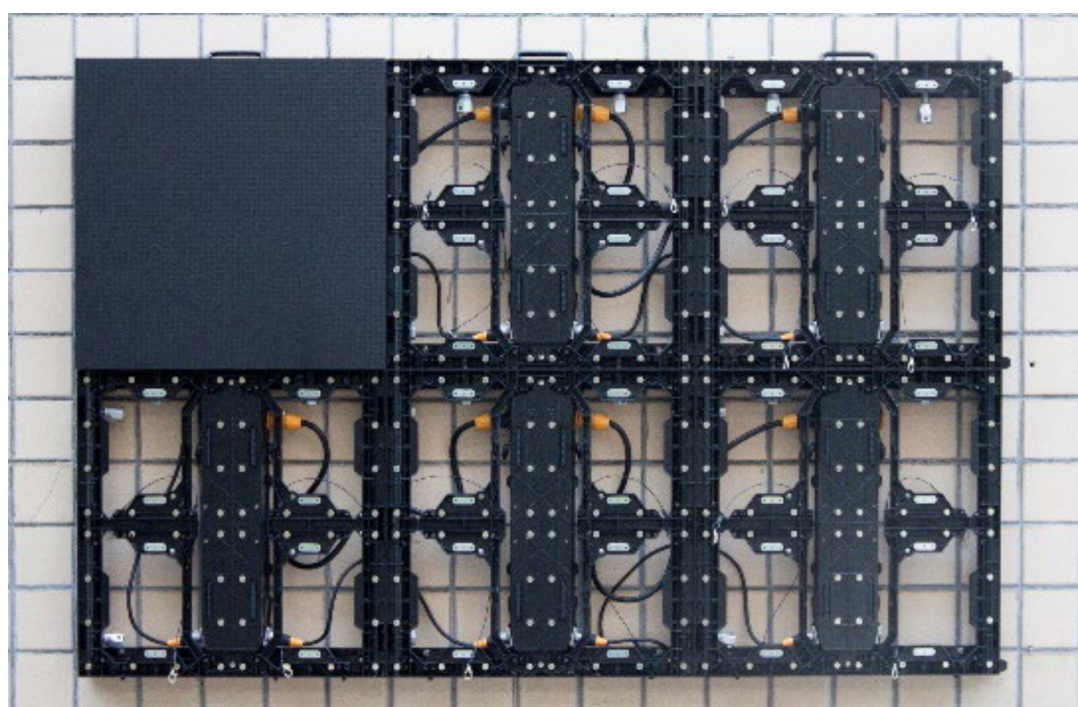
- 7. Move the positioning slider on the adjustment frame to ensure wall mounts are even with the adjoining wall mounts.



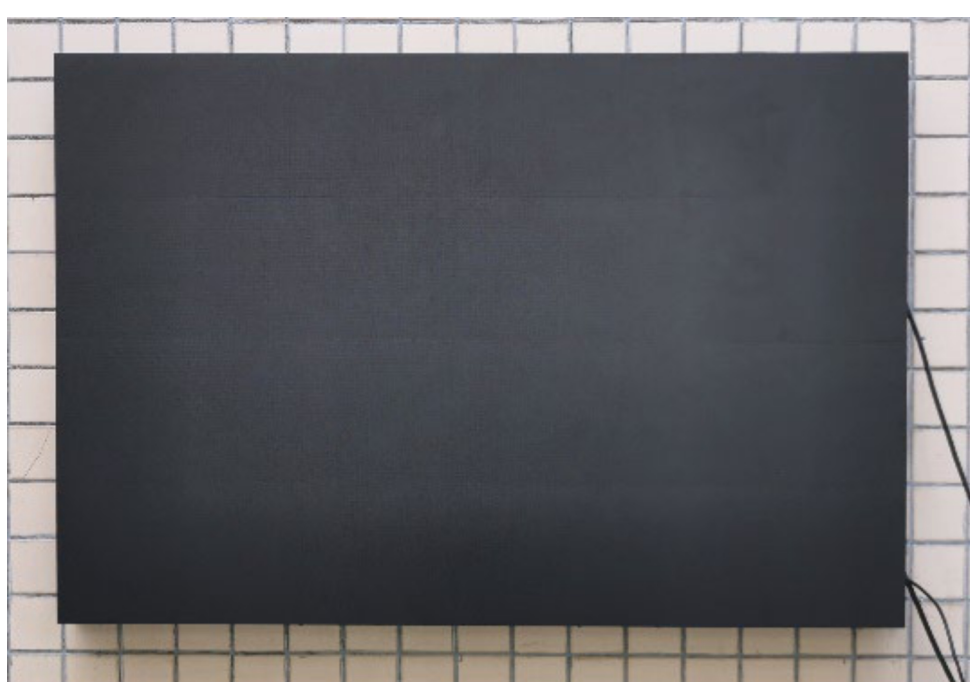
- 8. Align the mounting holes of the LDC500XX-LTP cabinet with the holes of the positioning slider and lock in with included M8 screws. Continue installing cabinets from top left, in a left to right and then top to bottom direction. Use the in built connecting locks to tightly join the cabinets together. Be careful to ensure that the cabinets are flat and uniform to each other.



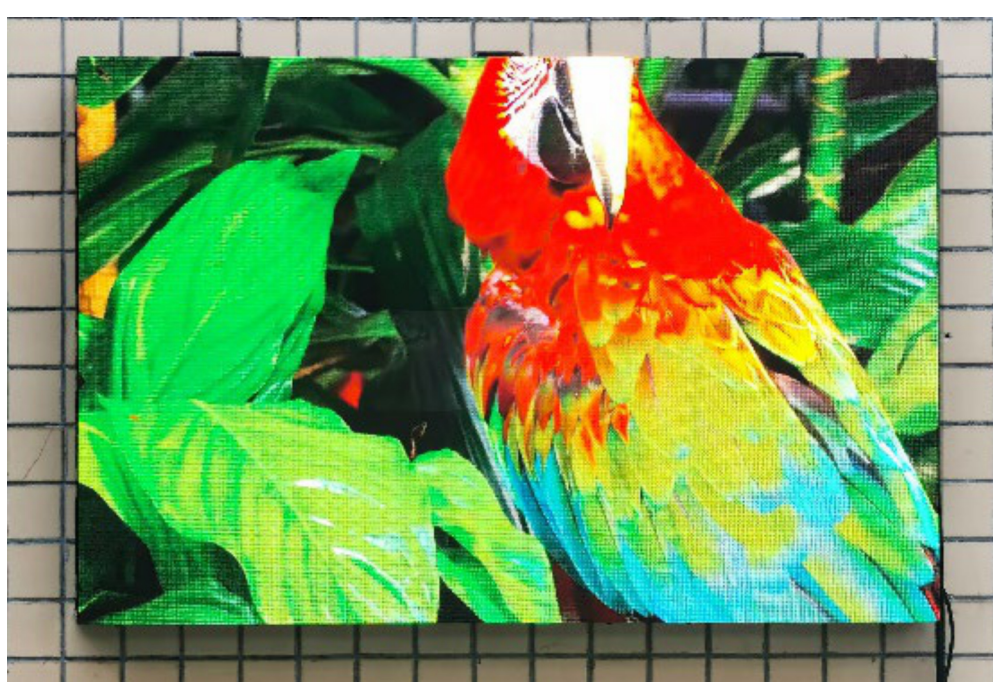
- 9. Connect the signal and power main cables, refering to detailed wiring diagram for location.
- 10. Connect the signal and power link cables, refering to detailed wiring diagram for order.



- 11. Install the modules using the included maintenance tool, working from top left, in a left to right and then top to bottom direction.
- 12. Careful check the modules are flat and uniform with the surrounding modules. If uniformity is out, please adjust the cabinet and bracket to bring the flatten.



- 13. Complete installation of modules being careful not to damage corners and edges.



- 14. Connect screen signal cable to processor as per wiring diagram.
- 15. Power on screen and processor and setup screen as per control processor instructions (separate).
- 16. Send test signal, check for any faults and swap parts or make adjustments as required.

4.0 Maintenance - Front



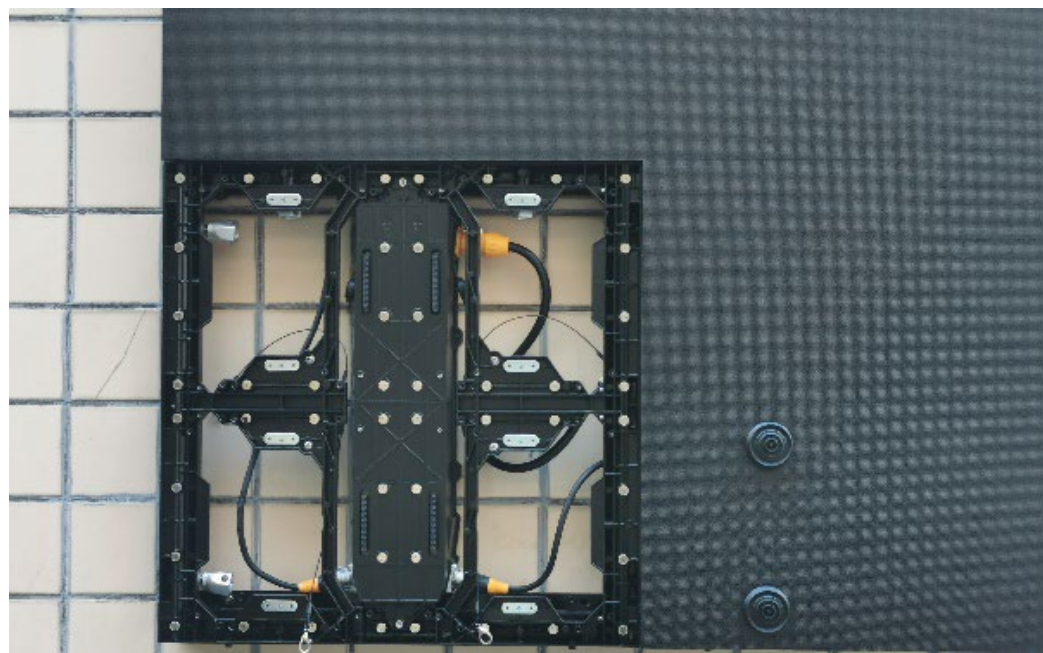
1. Isolate mains power from screen



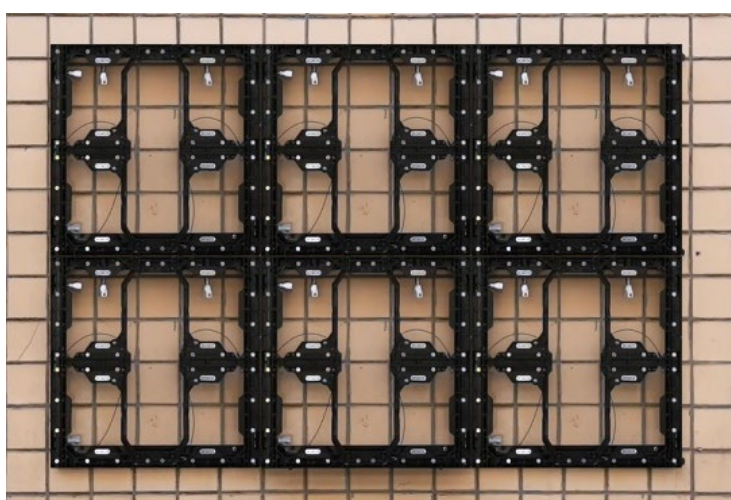
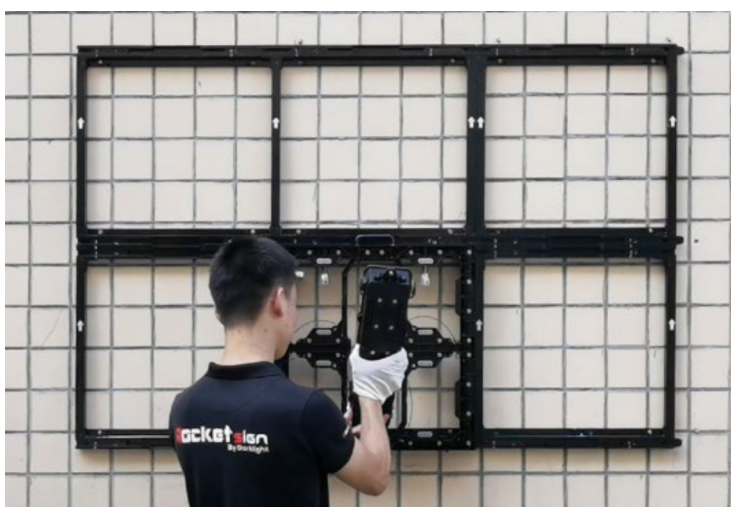
2. Remove module using the maintenance tools

If your screen has M-Lock use the 2 black magnets to disengage in locations shown above. These will locate themselves in the correct position if you have them close.

Use the suction cup to pull module away from the wall



3. After removing all 4 modules from one cabinet unplug the signal and power cables.



4. Undo the upper and lower two screws on the control box using M6 socket wrench and pull control box away from wall.

5. Follow instructions in reverse to re-install control boxes and modules (note you won't utilise the M-Lock magnets to re-install)

END