

## AW Series

### Wall Mount, Pendant Mount Installation Guide












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# 1. Preparation before product installation

## 1.1 mounting tool

	Tool type	Acting on	photograph
<b>Installation tool list</b>	adjustable wrench	Lock the screws between the boxes	
	blades	Unwrap the vacuum bag	
	PH2 Phillips screwdriver	Screws for removing/installing the adapter board, receiver card, and power supply	
	multimeter	Measuring power cords and distribution boxes	
	surveyor's level	Testing the flatness between boxes	
	Pre-vacuum maintenance tools	Installation/removal of LED modules	
	tweezers	Handling cable ties when laying out cables	
	tape rule	Measuring length	
	laser level	Check the flatness of the structure during installation	

## 1.2 Installation Environmental Requirements

1. Conventional boxes cannot be installed on the seashore, but only boxes with special anti-salt and alkali materials can be installed on the seashore;
2. The humidity at the installation site must not exceed 85RH;

3. The temperature of the installation site should be  $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$ , and the box with special low-temperature material can be installed at  $-30^{\circ}\text{C} \sim 20^{\circ}\text{C}$ ;

## 1.3 Precautions before installation

### pre-installation

1. determine the power distribution program: according to the size of the actual display, the arrangement of the order of the specific power distribution program to determine the power distribution box, the specifications of the main power line and the number of box connected to the number of power lines. Determine the specifications and quantity of power distribution box, main power line, and the number of power lines connected to the box according to the total number of pixels and the order of arrangement.

2. Power Distribution Precautions

- ① Neat wiring, horizontal and vertical, non-cable wiring must be laid in the trunking or conduit;
- ② Lay signal and power cables separately to avoid interference;
- ③ Wiring consider three-phase power balance, as far as possible, each phase of the electrical load display equal number of boxes;
- ④ Crimp wire terminals are required for cable wire ends;
- ⑤ The wire ends are coded, and the overall power distribution diagram should be consistent with the actual wiring to facilitate subsequent troubleshooting;
- ⑥ Lay out the cables from the power distribution box to the display box in conjunction with the actual box arrangement, taking into account the safe carrying capacity;
- ⑦ For long distance wiring, consider the line loss voltage and make sure that the voltage at the end of the display is within the permissible range;

3. tool preparation: the display installation of commonly used tools, including with screwdrivers, wrenches, multimeters and other tools for model matching and preparation.

### During installation:

1. distribution box installation: distribution box installation shall be firm and reliable. Reliable protective grounding.
2. box installation: equipment handling. Must be equipped with sufficient manpower to ensure safety. Pay attention to the light holding and putting, shall not bump caused by the appearance of the box and functional damage. Installation of the display screen to check whether the magnet feet are tightened, the power cord and network cable connection to confirm whether the power supply wiring is in place, correct, whether the network cable is inserted in place, even the screen in the correct order.
3. the wiring sequence: the first box with a box with the power cord in series, and then the main power cord from the distribution box or socket connected to the bottom of the box.
4. power connection: Firstly, make sure that the power supply terminal is in the state of "disconnection", and it must be connected from the power supply terminal (equipment switch or distribution box, etc.). Connect the power supply terminal only after checking that the power supply terminal is connected correctly, firstly connect the protective earth, secondly connect the zero line, and finally connect the phase line. After connecting the power supply: Check the voltage of the switch or equipment distribution at the consumer side and confirm that the power supply is correctly "disconnected". The power supply line must be color-coded to distinguish

between ground, zero, and phase A, B, and C lines.

5. box adjustment: check whether the display is flat and clean. Make micro-silicon adjustments to the gaps between the modules and the box and the box. When installing, note that the box and the box must be locked with screws to ensure that the box between the left and right/up and down flatness.

6. power supply test: before supplying power to the whole screen and providing control signals, please carefully check whether the power supply and signal lines are connected correctly; please carefully check the AC power input port of each box on the "L" line, "N" line, "PE" line, to confirm that there is no short-circuit phenomenon between the three (measured with a multimeter).

7. power on test: fault judgment, check the appearance of power on test whether there is a bad screen, text output is correct; if there is a fault, according to the fault phenomenon, judgment, troubleshooting.

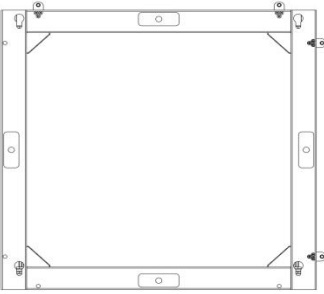
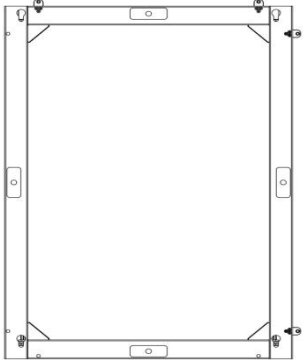
## 2.Product Installation

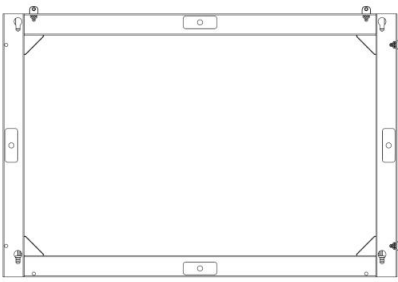
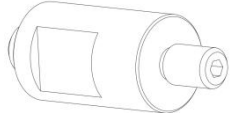
Product installation type: wall-mounted, hanging

### 2.1 Wall mounting

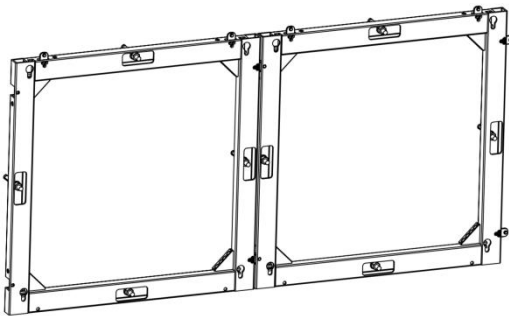
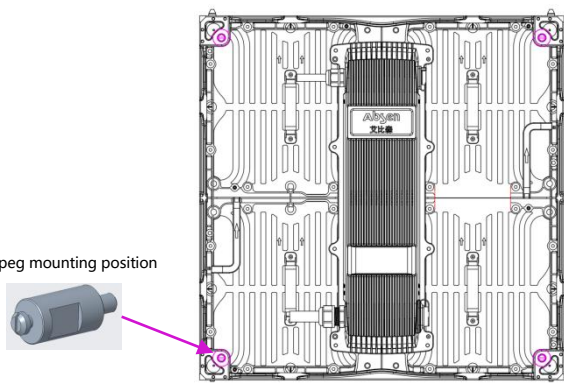
#### 2.1.1 Mounting accessories

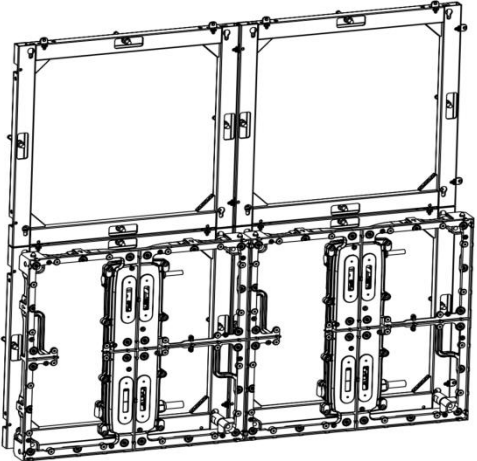
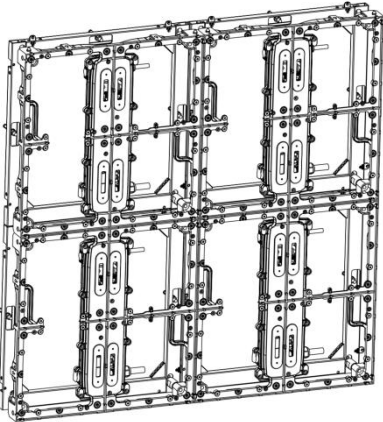
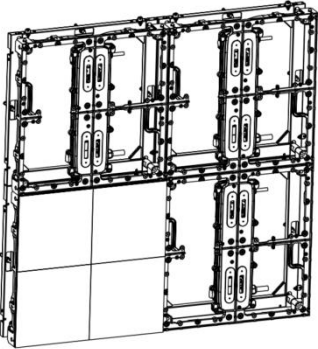
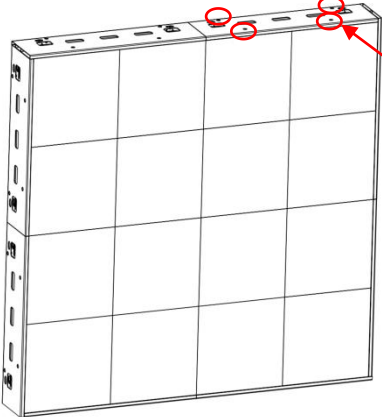
AW Series front mount (wall mount) mounting kit includes hanger, pegs

Serial No.	designation	photograph	use
1	500X500 Wall Bracket		For fixing and mounting 500x500 boxes
2	500X750 Wall Bracket		For fixing and mounting 500x750 boxes

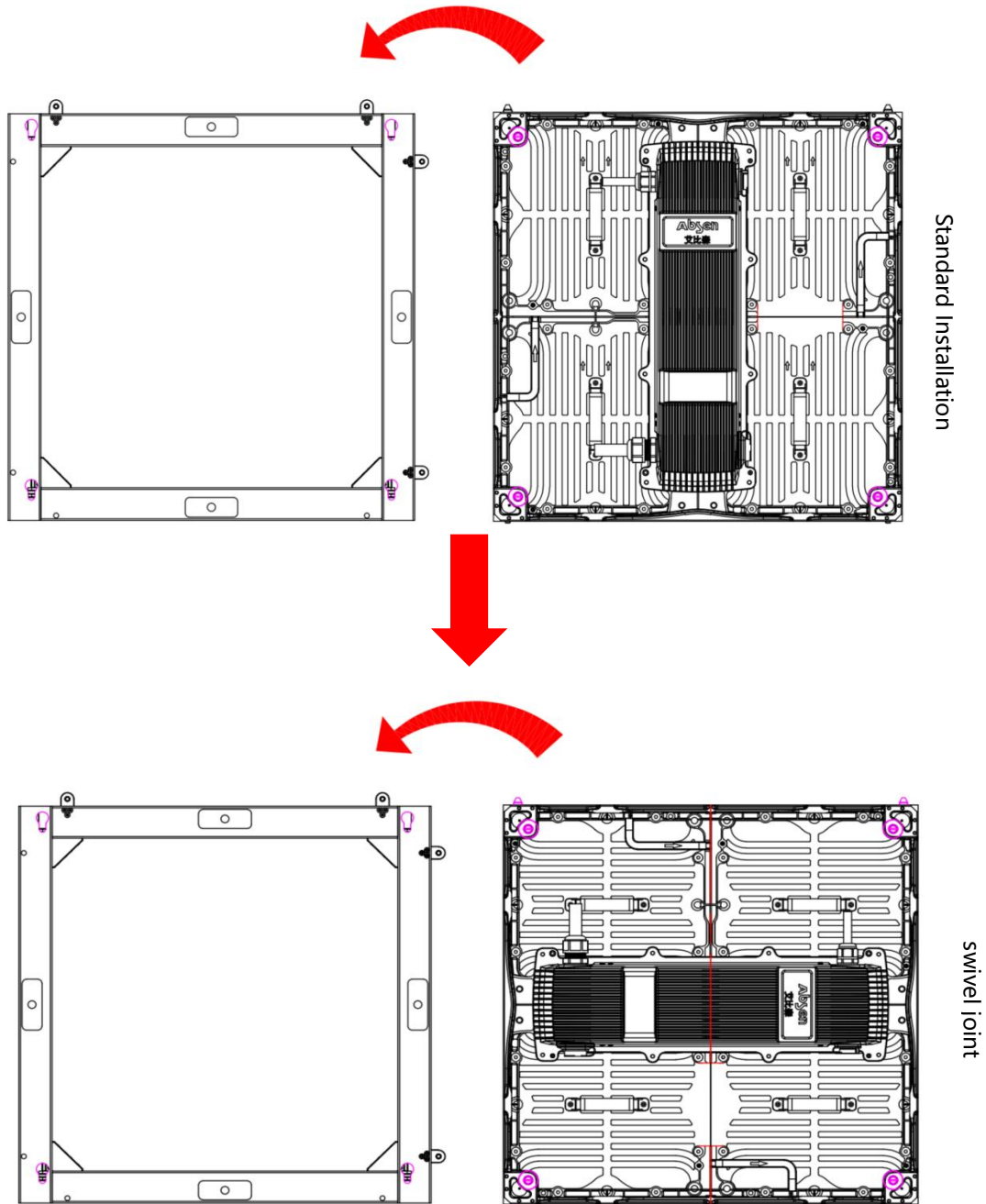
3	750X500 Wall Bracket		For fixing and mounting 750x500 boxes
4	staple		Mounted on the mounting holes of the box to the hanging bracket

### 2.1.2 Installation steps

<p>Step 1: Fasten the plate to a flat wall with self-tapping screws M6 or expanding screws M6.</p>	<p>Take 500X500 rack as an example</p> 
<p>Step 2: Attach pegs to the mounting holes on the back of the case, 4 pegs per case</p>	

<p>Step3: Install the box frame on the wall plate: from the bottom to the top layer by layer installation Note: Use M8X35 screws to lock the box between left and right, top and bottom.</p>	
<p>Step 4: After installing the box, connect the signal cable and power cable.</p>	
<p>Step 5: Install the module, note that the arrow of the module is pointing upwards when installing the module</p>	
<p>Step 6: After installing the module, use M4 screws to install the wrap-around edges</p>	 <p>Edge Banding Screw Mounting Holes</p>

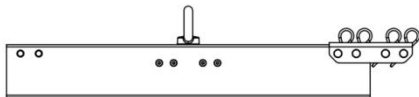
**Note:** The AW Series 500X500 also supports rotational 90° mounting, which requires the box to be rotated 90° during installation. (Refer to the picture shown below)



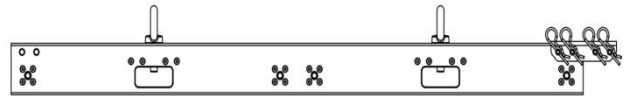


## 2.2 Lifting

### 2.2.1 Types of lifting beams



Single-double lifting beams



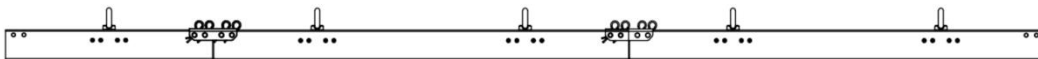
Double Hanging Beam

### 2.2.2 Installation steps

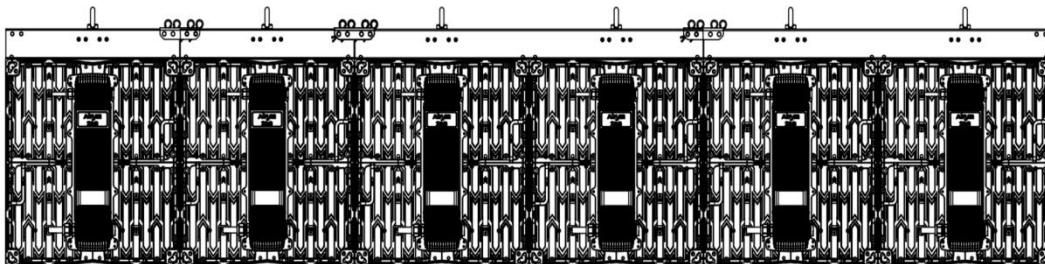
Use the top and bottom screws of the box to connect the lifting beam, the lifting beam can lift up to 10 500X500 boxes and 8 500X750 boxes.

Installation Steps:

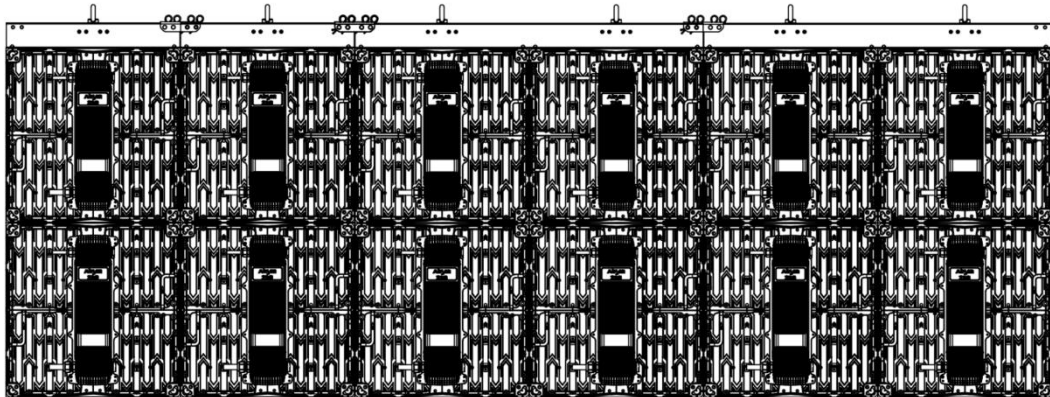
- a. Secure the lifting beam to the structure;



- b. Align the box screws with the mounting holes in the lifting beam and install the box under the lifting beam;



- c. Install the other boxes and lock the box set screws in all four directions;



- d. Complete the connection between the network cable and the power cable.
- e. Completion of module installation.

