

INFiLED

Screen your dreams

INSTALLATION AND USER MANUAL



WP Series

Safety Information

Please read this announcement carefully and abide by all precautions stated. It's especially important to review the following key items A7, B4, C3, D4.

If user encounter a situation that is not described in this manual, please contact INFiLED at once. Do not carry out operation without authorization. INFiLED will not be held responsible for any accidents.



A. Protection From Electric Shock

During operations, wear personal protective equipment such as protective clothing, insulated shoes, goggles and insulated gloves.

A1. Pay attention to the load capacity of the power socket. Avoid multiple high-power devices sharing one socket to prevent fires caused by overload.

A2. The product must be powered with AC power within the range of 100-240V nominal at 50/60Hz only.

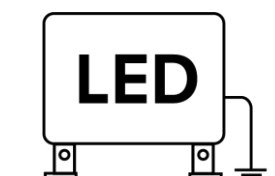
A3. Ensure that all power cables and signal cables are firmly connected. Loose connections may cause electric sparks, overheating and even fires. For example, at the event site, frequent vibrations may cause the lines to loosen.

A4. Avoid subjecting cables to excessive pulling, squeezing or abrasion. Damaged cables will increase the risk of electric shock.

A5. It is strictly prohibited to change the power plug of this product privately or use an unmatched power adapter, which may cause short circuits, fires or electric shock hazards.

A6. Please turn off the power when installing and replacing cables.

A7. Please make sure that the product is equipped with overload and grounding protection during installation to ensure that the current can be safely conducted to the ground in case of leakage and to ensure the safety of personnel and equipment. Otherwise, personal safety will be compromised.



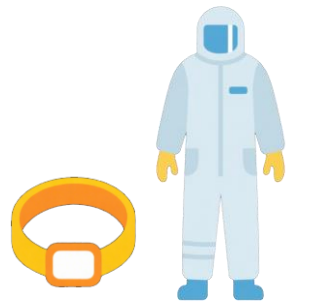
A8. During thunderstorms, the screen should be turned off. Lightning may be transmitted to the equipment through the power cord or signal cable, causing severe damage.



A9. When installing power cables, phenomena such as looping and twisting are strictly prohibited. If it is found that the length of the power cable is insufficient, the power cable must be replaced. Joints or solder joints are strictly prohibited in the power cable.

A10. When operating the internal circuit of the screen, electrostatic protection measures should be taken, such as wearing an anti-static wristband. Static electricity may damage sensitive electronic components.

A11. If the equipment has multiple inputs, all inputs of them should be disconnected. Operations on the equipment can only be carried out after the equipment is completely powered off.



A12. For fixed product, if the power input is a permanent connection, an easily accessible disconnecting device should be installed outside the equipment.

B. Protection From Fire



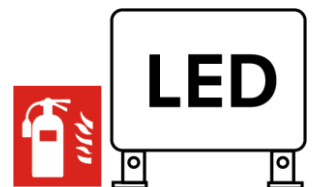
When installing please keep away from flammable materials, conduct regular maintenance and inspection, be equipped with fire extinguishing equipment, control the usage time and ensure good ventilation. Open flames are strictly prohibited to prevent fires.

B1. The WP series operating temperature is -10 °C~+45 °C.

B2. In the area where this product is installed, appropriate fire extinguishing equipment, such as fire extinguishers, should be equipped, and ensure that personnel are familiar with their usage methods.

B3. Regularly maintain and inspect the screen, and timely clean up dust and debris to prevent short circuits and fires caused by dust accumulation.

B4. Please reserve maintenance and heat dissipation space before installation. If air conditioners or fans are installed near the product, do not blow air directly towards the screen to prevent water droplets caused by cold air meeting heat from causing short circuits and fires.



B5. It is strictly prohibited to install this product in an environment with excessively high temperature. High temperature may cause overheating and fires of the internal components of the screen. For instance, near high-temperature equipment or in an area with direct sunlight and poor ventilation.

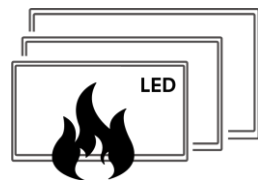


B6. Open flame operations or smoking are strictly prohibited when installing this product.

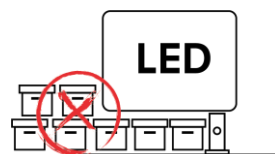


B7. Avoid using this product continuously for a long time. Power it off appropriately for a rest to reduce the risk of fire.

B8. Avoid overloading the circuit to prevent fires caused by overheating. It is prohibited to connect too many cabinets or other high-power devices to the same circuit.



B9. Please choose power cables and circuit components which are reliable quality. Damaged or inferior cables are prone to causing fires. For example, power cables which have been used for a long time and not replaced may have cracked rubber insulation, resulting in short circuits and fires.



B10. Do not place flammable decorative materials near the screen.

C. Protection From Injured



During installation, disassembly, and transportation, operators must wear safety gear such as protective clothing, gloves, helmets, and safety shoes. Personnel performing specialized tasks—such as electrical work, working at heights, or operating special equipment—must hold the necessary local certifications. INFILED is not liable for any personal injuries resulting from non-compliance.

C1. This product may generate high temperatures during working. Especially after long-term use, do not touch the surface of the screen to prevent burns.



C2. If there is a likelihood of personal injury or equipment damage during operations, immediately stop, report the case to the supervisor, and take feasible protective measures. When installing the equipment, ensure that the installation surface is solid enough to bear the weight of the equipment.

C3. When installing the screen at a height, be sure to use appropriate safety equipment, such as safety belts, safety ropes, etc. Please ensure that the installation structure is firm and reliable to prevent the screen from accidentally falling and injuring human.



C4. Ensure that any structure used for support as well as all fastening and connecting hardware can hold at least 10 times the weight of all supported devices and equipment.

C5. When installing this product, pay attention to checking whether all external accessories are firmly installed to prevent loosening and falling and injuring people.



C6. When stacking and hanging, the number of cabinets should be strictly controlled to prevent excessive load from affecting the stability of the entire structure and causing damage to personal safety.

C7. When disassembling and installing the parts of this product, be careful to avoid being scratched by sharp edges or being pinched by moving mechanical parts.



C8. When handling larger-sized or heavier products, pay attention to the correct posture and exertion method to prevent sprains or injuries to yourself.

C9. Avoid staring at the screen for a long time, especially at high brightness which may hurt eyes.

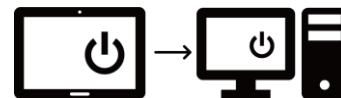




D. Cautions

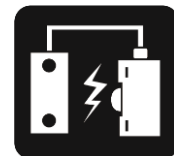
To ensure the safe and stable operation of the LED display system, please observe the following precautions.

D1. Power off the LED screen before turning off the computer, as turning off the screen first can cause high brightness pixel issues.



D2. If the display shows a particularly bright line of pixels, power off the screen immediately to prevent damage.

D3. If issues such as short circuits, tripping, burning wires, or smoke occur, do not repeat power supply tests until the problem is identified.



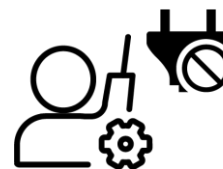
D4. Large screens should be powered step by step due to peak power impacts on the distribution system.

D5. Avoid running the screen at full white (100% brightness) for more than half an hour to prevent overcurrent or damage.



D6. In humid environments, preheat the screen at reduced brightness before use (30%-50% for 4-8 hours or 12 hours, depending on how long the screen hasn't been used).

D7. Professionals should handle internal screen repairs. Avoid electric shocks or circuit damage by ensuring maintenance is performed by qualified personnel.



D8. Avoid leaving the screen off for long periods in high humidity environments. Use preheating mode if the screen is not used for more than 3 or 7 days.



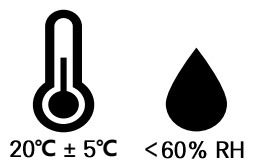
D9. Place the main controlling computer and related equipment in a cool, dust-free environment with proper ventilation.

Maintenance Announcement

In order to expand the working lifespan of our INFiLED LED display products, INFiLED formally announce the maintenance guidance. This announcement applies to all the INFiLED products.

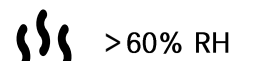
A. Storage And Clean Application Requirements

A1. Storage temperature should be maintained at $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ with humidity below 60% RH.



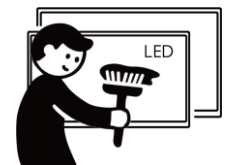
A2. Avoid storing the screen in high humidity, high temperature, or strong acid-base environments to prevent product corrosion or damage.

A3. If the humidity exceeds 60% RH, it is recommended to turn on the screen periodically for dehumidification to prevent moisture from penetrating the LED modules.



A4. Regularly clean the LED module surfaces to prevent dust and dirt from affecting display performance.

A5. For outdoor screens, cleaning is recommended every 3 months due to prolonged exposure to environmental elements. Indoor screens can be cleaned as needed based on usage conditions.

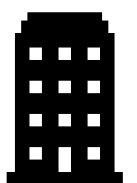


B. Environmental Requirements For Usage

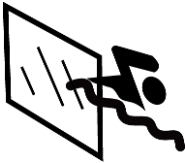
B1. Indoor and outdoor screens must be used in appropriate environments as specified. It is recommended to avoid using the screens in conditions of high humidity or strong acidity/alkalinity, as such environments may cause irreversible damage to the product and significantly reduce its lifespan.



B2. Please avoid installing the screen when the building is still under renovation and it must be installed after the building renovation is completed, because the environment with high humidity and acidity and alkalinity resulting from the renovation will easily aggravate LED failure risk.



B3. If the screen is used in swimming pools, amusement parks and other places that may contact with water, the screen should be specially protected (such as waterproof glass insulation).



★C. General Application Requirements

The terminal customer should use the screen frequently (At least twice a week), if the screen is not used for a long time (It is usually 5 – 10 days, depending on factors such as usage environment and weather conditions), dehumidification should be carried out before use. The specific operation steps are as follows:

Step 1. Dehumidification Process

Gradually increasing brightness, and removing accumulated moisture by slowly warming up. For example, in the follow ways:

Display Screen Dehumidification Scheme	
Time	Gray scale
0-2H	0 (only power on, black screen)
2-4H	10 white screen
4-6H	20 white screen
6-8H	30 white screen
8-10H	40 white screen
10-12H	50 white screen
12-14H	70 white screen
14-16H	90 white screen
16-18H	120 white screen
18-20H	150 white screen
20-22H	200 white screen

For spare modules or cabinets that have been in storage for more than one month, dehumidification is required prior to use. For example, in the follow ways:

Display Screen Dehumidification Scheme	
Time	Gray scale
0-1H	10% white screen
1-2H	30% white screen
4-6H	60% white screen
6-8H	80% white screen
8-10H	100% white screen

Step 2. Aging Process

There are dead LEDs affected with damp, after the dehumidification process, bad LEDs can be screened out by tightening the aging process.

Aging	2H white 255 + 1H black	72H	5 days
	Stop	24H	
	200 brightness level	24H	
Repair	—	—	—
Double Check	2H white 255 + 1H black	24H	1 day
	Video	24H	1 day

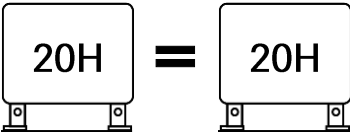
D. Special Environmental Application Requirements:

D1. After each use, store the screen in a sealed box with at least 50g of desiccant. Check the desiccant regularly and replace it every two months.



D2. If a rented screen gets wet in the rain, after the event, it shall be cleaned and dehumidified (avoid leaving foreign matter and rain on the screen) before being put in the flight case in which desiccant shall be available. Before the next event, take out the screen in advance and increase the gray scale level by level for dehumidification by lighting up, storage in warehouse without any processing is prohibited.

D3. Due to batch usage, rental products may exhibit differences in screen-on time. To ensure consistent display quality, it is advised to equalize the operating hours of all units and minimize color variation caused by uneven aging.

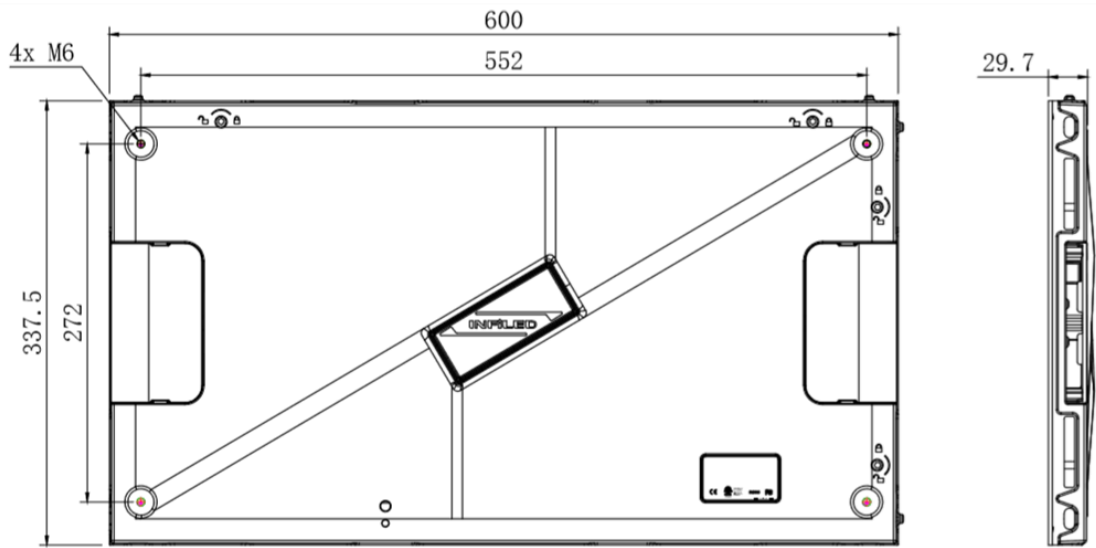


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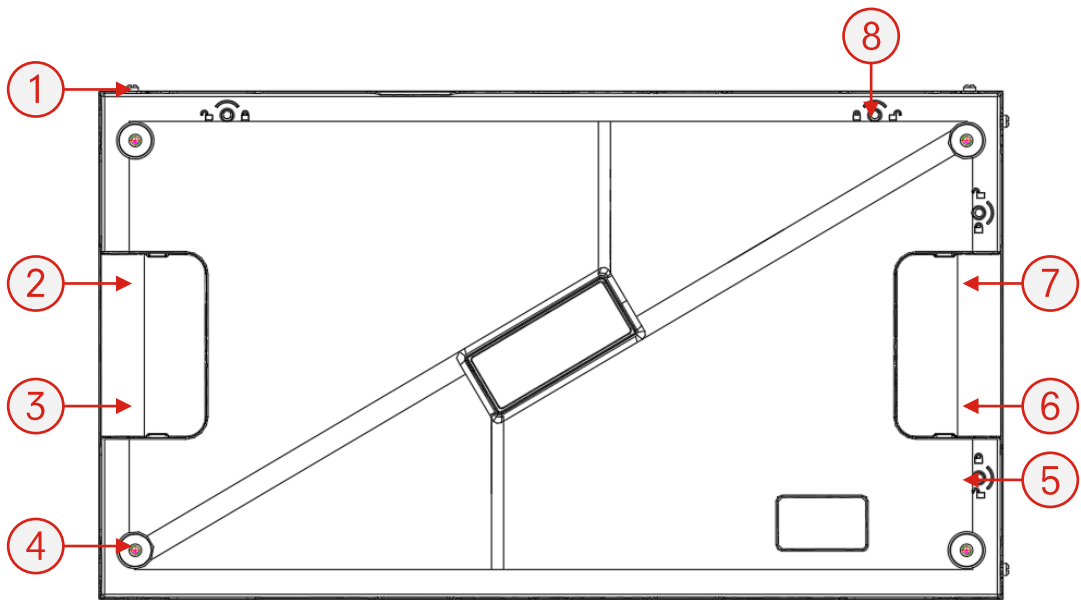
1. Product Overview

1.1 Dimensions



Cabinet height: 337.5 mm
Cabinet width: 600 mm
Cabinet depth: 29.7 mm
Weight: 5.2 kg

1.2 External Components



No.	Name	Note
1	Position pin	Easy for cabinet alignment
2	Data socket	Socket for data input or output
3	Power input socket	Socket for power input
4	M6 mounting hole	Used for installing hanging pin or bracket
5	H-side lock	Mechanical connection to lateral cabinet
6	Power output socket	Socket for power input
7	Data socket	Socket for data input or output
8	V-side lock	Mechanical connection to lower cabinet

1.3 Package

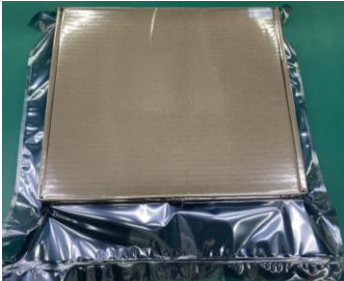
Package disclaimer statement

The damages caused by the described below are excluded from the warranty scope, please read it carefully prior to use.

- 1. Failure to use in accordance with work procedures and environment.
- 2. Unauthorized disassembly, expansion or modification;
- 3. Use in non-normal environments;
- 4. Replace accessories due to appearance issues after use;
- 5. Under the circumstance of overloaded use.



Modules are wrapped bubble wrap



Vacuum packing the cardboard box



WP wooden case (1 pack of 6)



WP wooden case (1 pack of 8)

Notifications for packing and storage:

- 1. Keep clean and dry at all times.
- 2. Make sure the cabinet or package doesn't show any signs of damage.
- 3. Prior to normal operation, please allow long- term stored displays two hours of warming at 50% brightness, followed by two hours of warming at 100% brightness level.

1.4 Configuration List

Item	Name	Note
Package	Wooden case	Standard
	Flight case	Optional
	Honeycomb	Optional
Installation tool	Surrounding edge	Standard
	Mobile stand (3x3,4x4)	Optional
	Mounting bracket	Optional
	Top screen mounting tool	Standard
	Bottom screen mounting tool	Standard
	Magnet mounting tool	Standard
	Cabinet mounting tool	Optional
	M5T hexagon wrench	Standard
	Wire disassembly	Standard
Maintenance tool	Vacuum suction tool-V5	Standard
	Vacuum suction tool-L2	Optional

2. Product Installation

2.1 Wall Mounting System

INFILED designed special wall mounting bars, tools and components for a precise and accurate fixed installation. It depends on the desired screen size, which additional parts are supplied. Contact your INFILED supplier in order to get the best consultation and solution for your project.

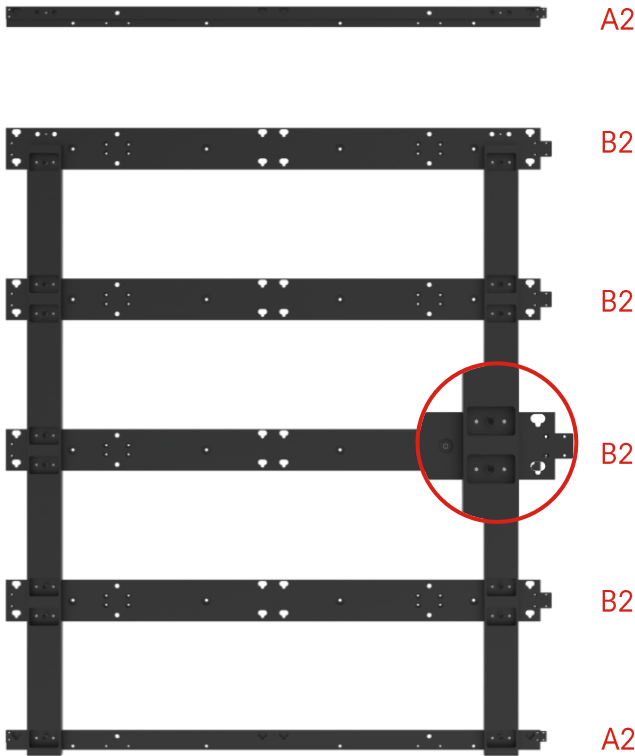
Small screen installation

Small screen only has mounting bars, thickness is only 8mm, suitable for width ≤3.6m (6 cabinets wide), the pursuit of thinner installation thickness.

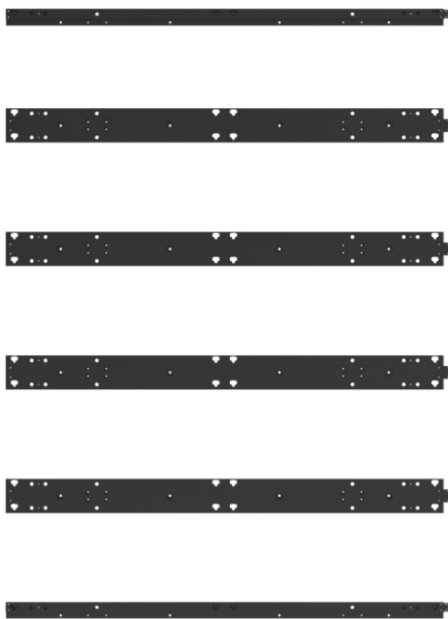
Components	Screen Size and Qty			Tools	Mark
	4x4	5x5	6x6		
1800x45x8mm top/bottom bar	0	2	4	Cross screw driver (5×100mm)	A1
1800mmx93.5x8mm middle bar	0	4	10		B1
1200x45x8mm top/bottom bar	4	2	0		A2
1200mmx93.5x8mm middle bar	6	4	0		B2
Location beam	2	2	2		T
M6x40 Hexagon countersunk head built-in expansion bolt	40	60	84	Electric drill (φ6×93mm drill)	
PA6x40 Round head tapping screw (Black stainless steel)	40	60	84		
Small connection block	3	4	5		C1
Big connection block	2	2	2		C2



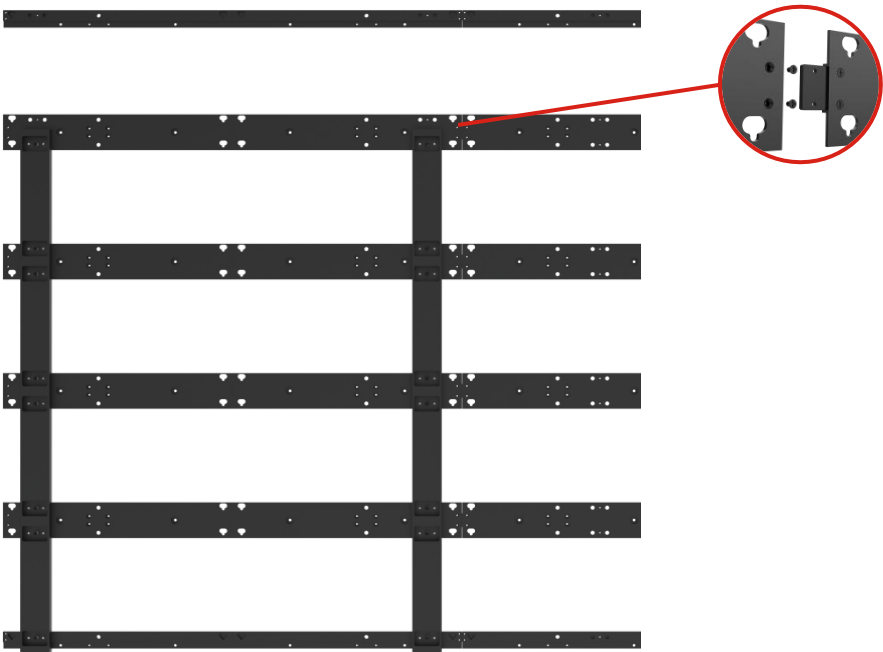
1. Use the 1200x45x8mm(A2) and 1200x93.5x8mm(B2) mounting bars and splice them into the shape as shown below. Secure them using the two location beams, ensuring that the arrow on the beams points upward.



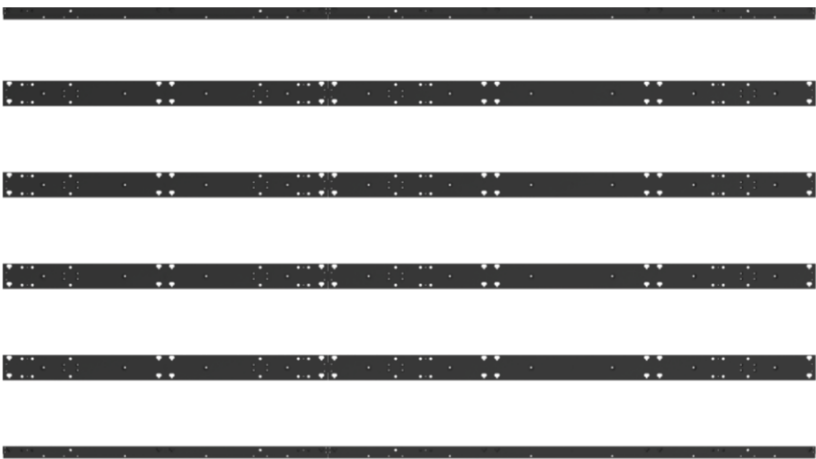
2. Make holes in the wall as shown below. User can use the location beam spliced in step 1 as a guide for vertical alignment. The hole size should be Φ6mm. Insert the expansion screw base into the holes. (Please skip this step if using tapping screws.)



3. Align the mounting bar with the pre-drilled holes from step 2, then secure it to the wall. Next, align the hole on one side of the connection block and fasten it with KM4x6 screws. Remove the two vertical location beams by manually twisting or using a screwdriver.
4. Repeat step 2 by splicing the other side of the beam with the opposite side of the connection block, then secure it to the wall. As shown below, place the connecting block in the position marked by the red circle and lock it with KM4x6 screws. The 5x5 mounting bracket is now installed.



5. Remove the location beams and finish installation.



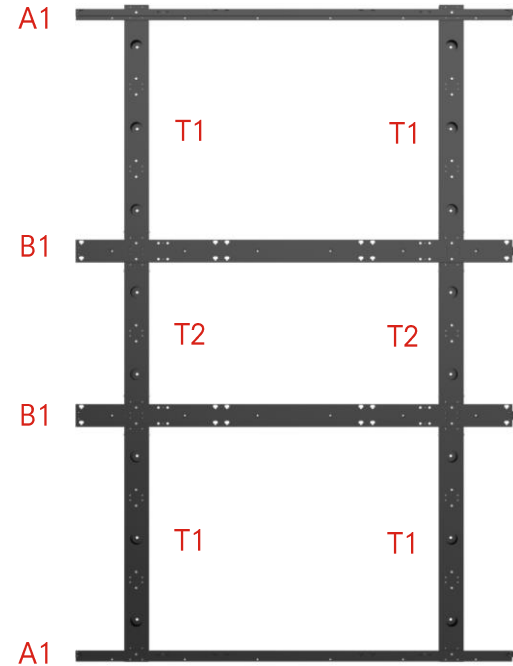
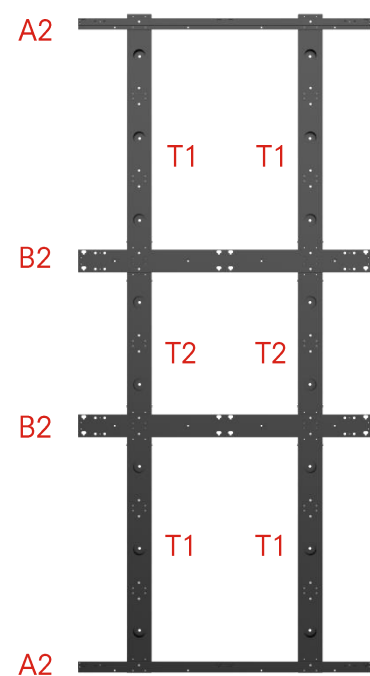
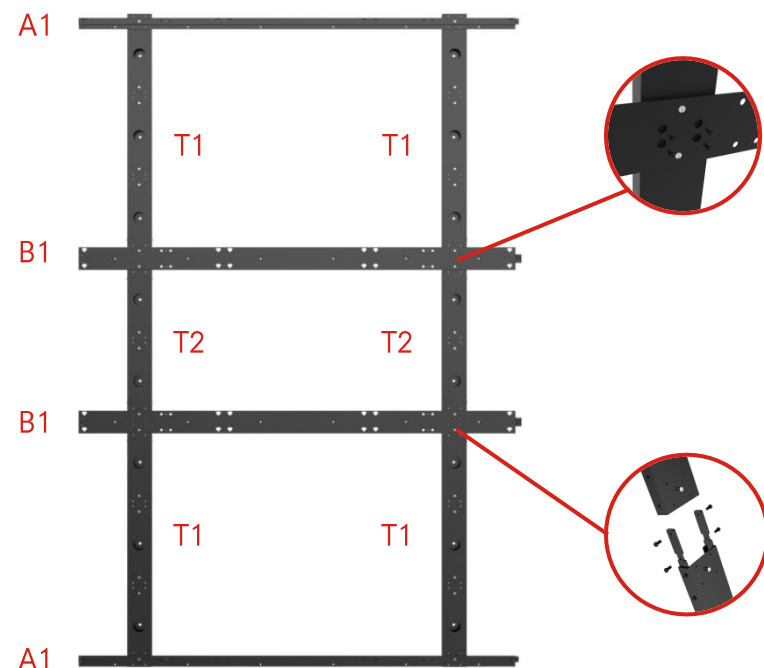
Big screen installation

The big screen mounting bar increases the vertical beam, the thickness increases to 38mm, and the width is greater than 3.6m (6 cabinets wide), has better stability and space.

Components	Qty	Tools	Mark
1800x45x8mm top/bottom bar	According to requirements	Cross screw driver (5×100mm)	A1
1800mmx93.5x8mm middle bar			B1
1200x45x8mm top/bottom bar			A2
1200mmx93.5x8mm middle bar			B2
1012.5x100mm Vertical beam		Electric drill (φ9×125mm drill)	T1
675x100mm Vertical beam			T2
8×60 (coarse 304 nail) expansion tube screw			
Small connection block			C1
Big connection block			C2
Connection plate			C3



1. Based on the provided materials, the entire structure can be divided into three parts, as shown below.



2. Use the $\phi 9\text{mm}$ drill make a hole on the wall, can use the mounting bar to help make the holes.

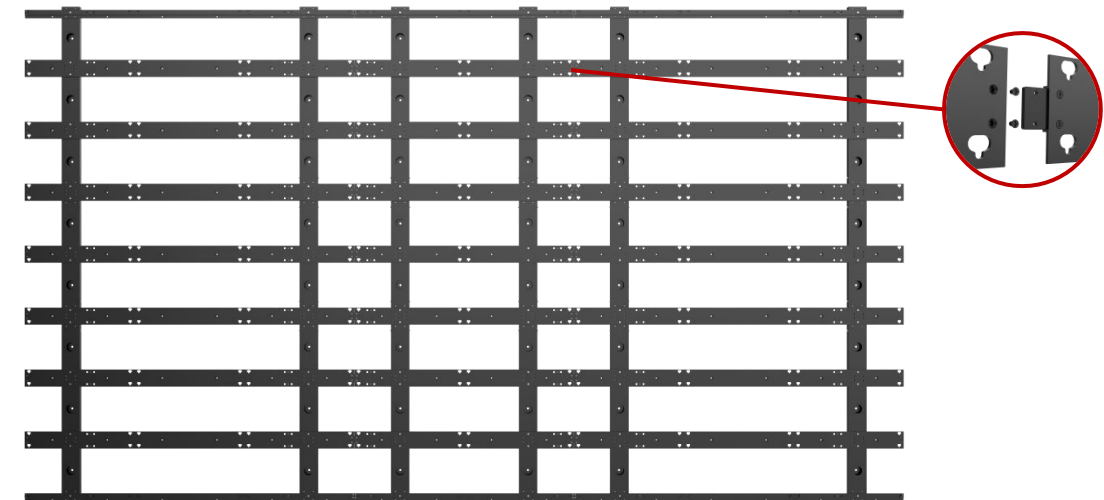
3. Insert the expansion pipe into the wall.

4. Fix the mounting bar on the wall, please notice the level of the mounting bar.

5. Place another assembled mounting bar on the side of the fixed mounting bar.

6. Fix the junction plate just like below picture to make sure the two mounting bars at the same level.

7. Use the expansion bolt to fix the mounting bar, as shown below.

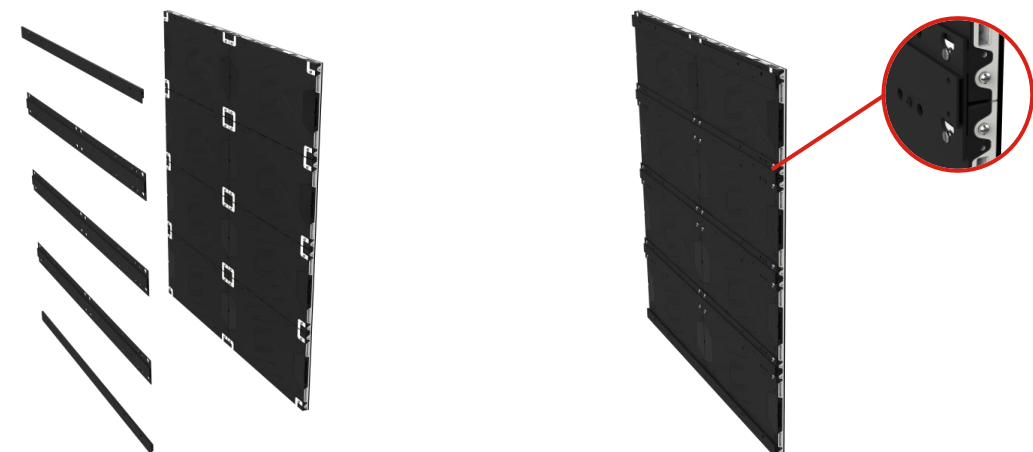


8. Fix all mounting bars and finish installation.

Cabinet suspension

Each cabinet is equipped with four hanging pins on the back, which must be inserted into the corresponding holes on the mounting bar.

The unique design of the fixing points allows the cabinet pins to be inserted from either the right or left side. Carefully align the cabinet and ensure that all four hanging pins are properly positioned in the holes before releasing the cabinet. Once released, the cabinet will settle slightly downward into its final position. To ensure a perfect screen installation, begin by installing the frame and modules from the center, gradually moving to the sides.



2.2 Cabinet Installation

Warning: When installing this product, the operator needs to wear safety suits, safety gloves, safety helmets, safety shoes, etc. Personnel who will perform special tasks such as electrical operations, working at heights, and operations of special equipment must possess the required local qualifications.

Precautions: To ensure a perfect screen installation, begin by installing the frame and modules from the center, gradually moving to the sides to device the tolerance to both sides.

When installing cabinet INFiLED recommend that the installation be carried out according to the order of delivery or the drawings provided. Therefore, all cabinet will be numbered before leaving factory, and the installation can be performed according to the serial number of the cabinets.

Confirm the screen installation diagram, according to the diagram to install the screen.

ILPxxxxxxx
A1-2

Note:

ILPXXXXXXX: This is order's number.

A: This is screen number, if there are multiple screens, they will be labeled as A, B

1: This is the row's number, it means that the cabinet should be installed at first row.

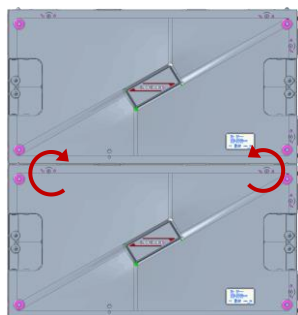
2: This is column's number, it means that the cabinet should be installed at second column.

So, A1-2 refers to the cabinet that belongs to screen A and should be installed in the first row, second column.

Vertical Installation

The lock is in open position when the hock is recessed in the frame, ensure that this position is applied. Confirm the position of location hole and position pin of cabinet. Then insert the position pin into location hole till cabinets keep parallel and without misalignment.

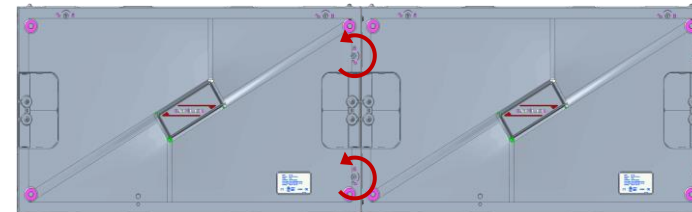
Insert M5T hexagon wrench and turn clockwise or anticlockwise which are marked on diagram to fix lock until cannot be moved.



Horizontal Installation

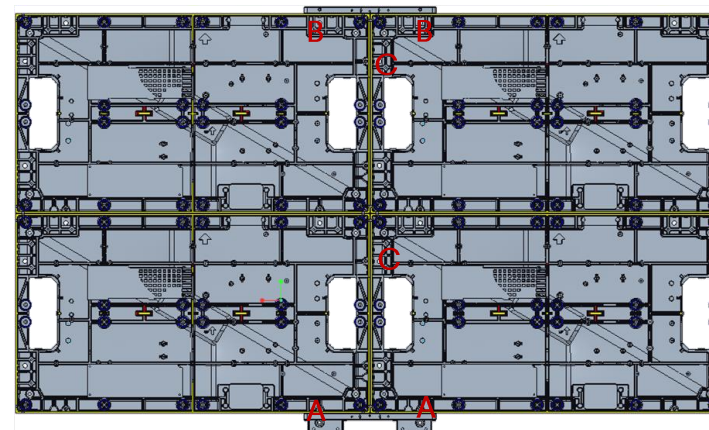
The lock is in open position when the hock is recessed in the frame, ensure that this position is applied. Confirm the position of location hole and position pin of cabinet. Then insert the position pin into location hole till cabinets keep parallel and without misalignment.

Insert M5T hexagon wrench and turn clockwise or anticlockwise which are marked on diagram to fix lock until cannot be moved.



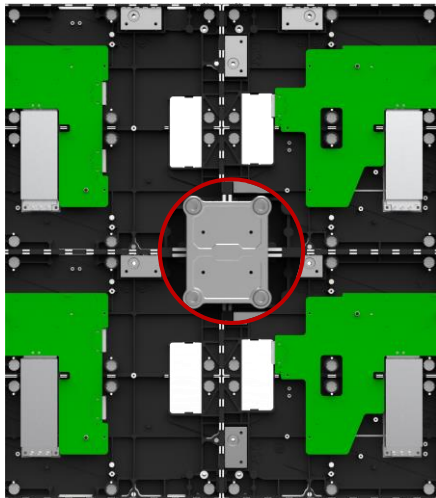
Using top/bottom mounting tool to install cabinets

1. First, locate the bottom mounting tool on the lower side of the cabinet, manually adjust the front and back of the cabinet without misalignment (the adjacent planes of the two cabinets are on the same level), and use supplied M5T hexagon wrench to fasten the fast lock at A.
2. Then, Align the panel with the top mounting tool, manually adjust the front and back of the cabinet without misalignment (the adjacent planes of the two cabinets are on the same level), and use supplied M5T hexagon wrench to fixed the fast lock at B.
3. Manually adjust the middle of the cabinet without misalignment, and use M5T hexagon wrench to fix the fast lock at C. After fast lock is fixed, please reconfirm the middle of cabinet without misalignment. If the dislocation still exists, repeat step 3 till no dislocation. Remove all the installation tools and prepare for the next step.
4. Repeat the preceding steps and install frames from center to both side until the frames are installed. Prepare to install the next row of frames.



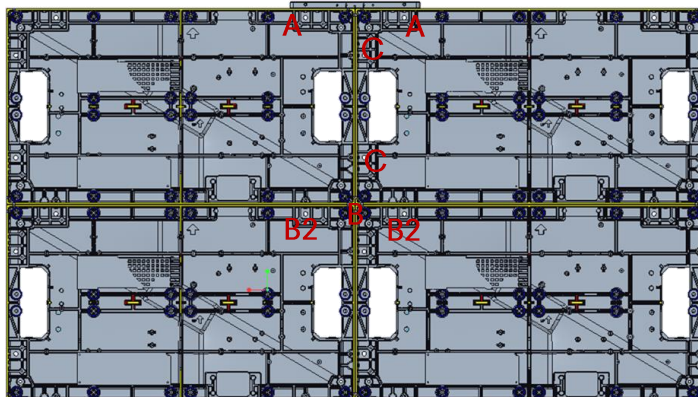
Using corner mounting tool to install cabinets

After cabinets are fixed with fast lock, ensure there is no dislocation between the cabinets. Therefore, it is necessary to use the corner mounting tool to keep the cabinet flat.



Using top/bottom mounting tool to install the rest cabinets

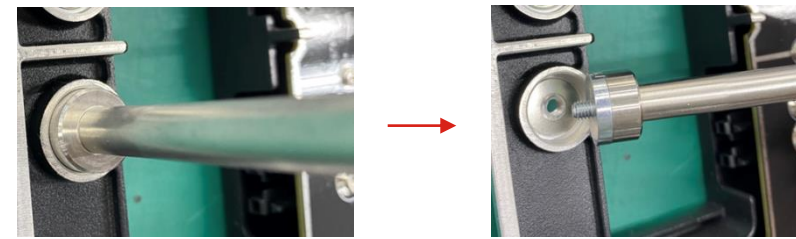
1. Installing screen mounting tool B2 on the top of cabinet, then lock the A after make sure there is no flatness issues on the top (the adjacent planes of the two cabinets are on the same level).
2. Screen mounting tool C on the corner of 4 cabinets, and lock the place B. After check there is no flatness issue on the red circle and then lock the place B2 (the adjacent planes of the two cabinets are on the same level). If the flatness issue still exist, unlock the B2 and push edge of cabinet to flat, then lock it again.
3. Check the middle of two frames are flat enough (less than 0.05mm), if so lock the place C, if not push one side of cabinet to flatness is good and lock the place C same time.
4. Repeat the previous steps and install frames from center to both side until the all frames are installed.



Using magnet mounting tool adjust modules

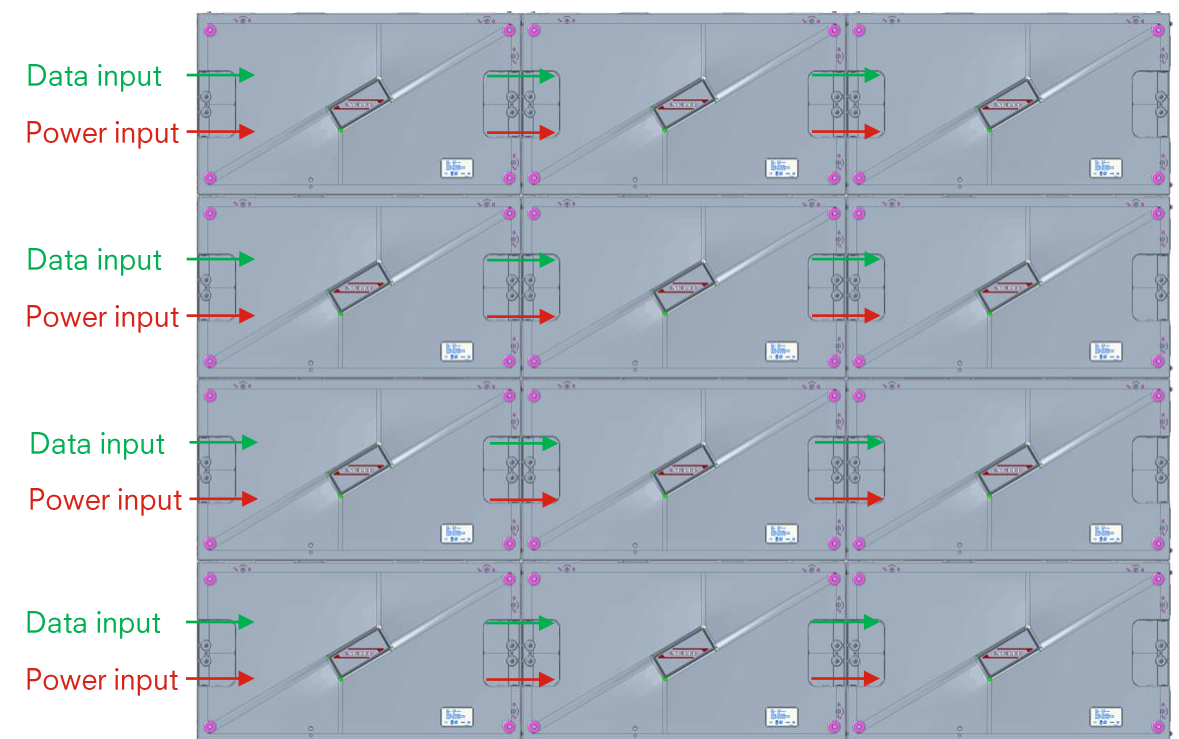
WP series has magnets surrounding the cabinet frame which are fixed with modules. When installing the cabinets, if the module is uneven or misaligned, using magnet mounting tool to adjust the tightness of the magnet to solve this problem. In addition, when the magnet is seriously worn, it can also be replaced with the magnet installation tool.

Turning the installation tool clockwise, magnet is fastened and turning the installation tool anticlockwise, magnet is loosed.



Connecting cables

Connecting the power and signal cables as the way which provide by INFILED. Please do not connect too many cabinets to avoid excessive current and damage to the power cable.



Put modules back

When putting modules back please install from center to the both sides. Wearing gloves and anti-static wrist strap and following the module's order as shown below. Please be careful and do not damage the LEDs. Both the back of LED module and frame have stickers with module's order. Please ensure they are matched correctly during installation.

Note:

A1-1-1: It means that the first module of the cabinet in the first row and first column of screen A.

A: This is screen number, If there are multiple screens, they will be labeled as A, B

1: This is the row number, it means that the cabinet at first row.

1: This is column number, it means that the cabinet at second column.

1(2,3,4): It means that first (second, third, fourth) module.

A1-1-1	A1-1-3
A1-1-2	A1-1-4

3. Hardware Connection

3.1 System Accessories Connection

Cable

INFiLED provides a 10-meter main power cable with 3 core, 2.5mm² and a maximum safe current of 15A. The WP series operates at 100-240V, 50/60Hz, conforming the usage standard of the most of countries globally. The different pixel pitches may exhibit varying power consumptions, please refer to the specification parameter table for details.

The data cable is Cat5e with a maximum transmission distance of 100 meters, otherwise the signal will attenuation. Fiber is recommended over 100 meters. The maximum load of a data cable should not exceed 650,000 pixels, multiple cables for load sharing should be considered if exceeded. Due to controller load limits, a single cable usually cannot be fully loaded, user should consider this when configuring the scheme.

Power cable& Signal cable looping capacity		
Model Name	Max cabinets power loop	Max cabinets signal loop
WP1.25Lite	20	5
WP1.56Lite	20	7
WP1.87Lite	20	11
WP2.5Lite	20	20
This data is based on calculations using 220V, 15A . Just for reference only.		

Power cable& Signal cable	
Power cable	Signal cable
	
Interlink power cable	Interlink signal cable

Hardware connection

The hardware connection as shown below. PC transmits signal to the controller through USB or LAN cable, then the controller transmits the signals to LED wall through LAN cable and the LED wall will be lighted.

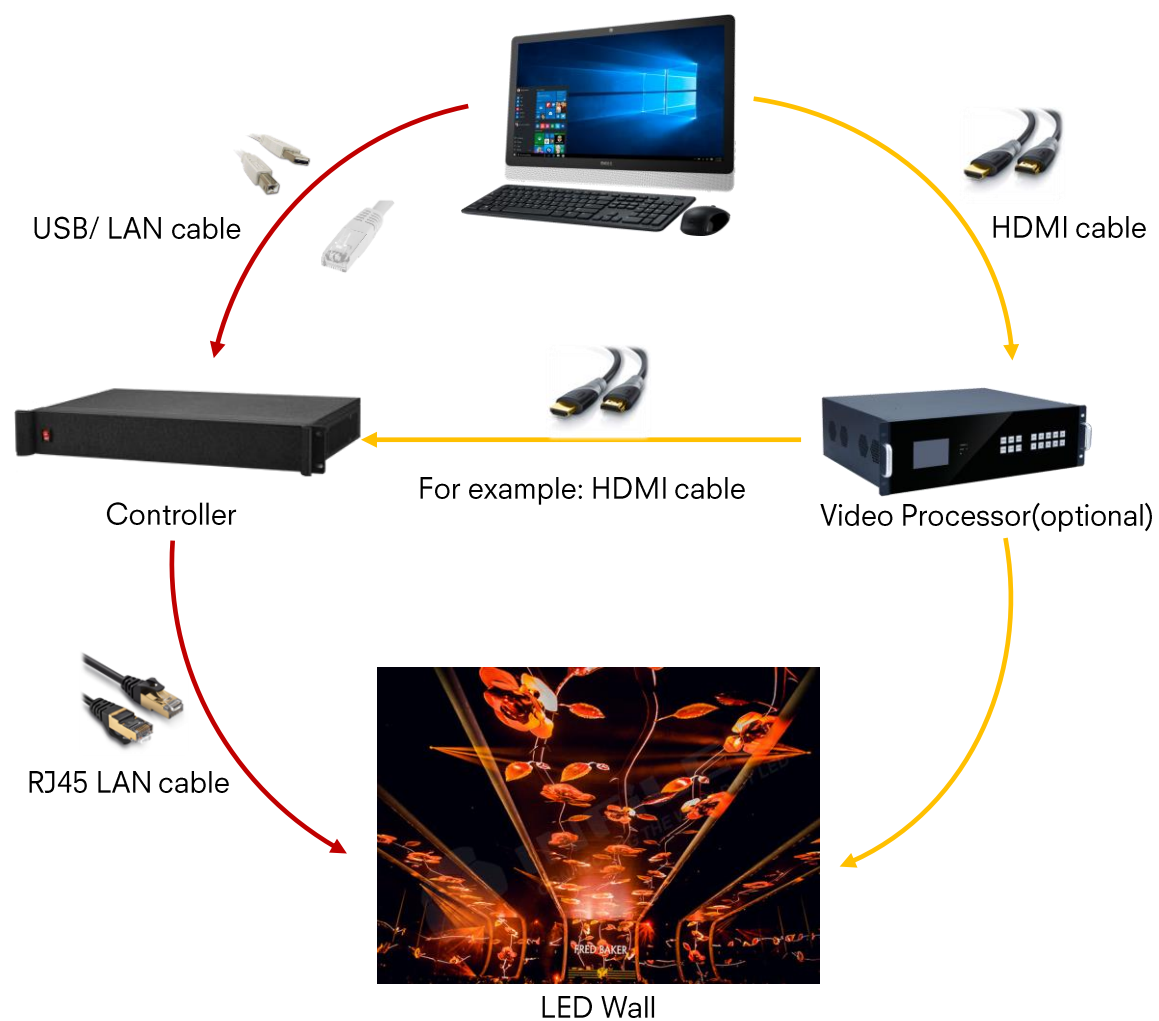
The following accessories are required for the LED wall to show properly:

PC: Send instructions to the LED wall and control the controller.

Controller: Control the LED wall, transmit the signals from PC to LED wall.

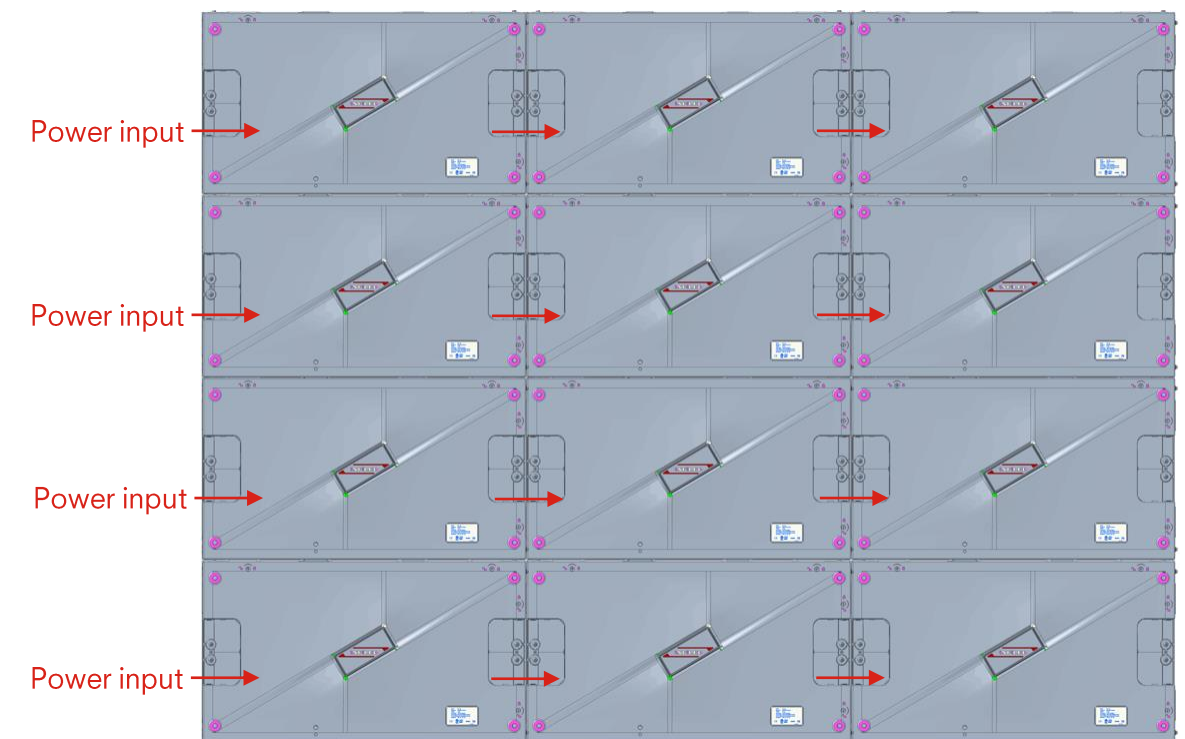
Video processor(optional): Process the information emitted by the video source and transmit it to controller.

Video signal cable: The commonly used video signal cables include DVI, HDMI, DP, SDI.



3.2 Power connection

It is recommended that the main power cable can be connected horizontally and vertically. Due to the load limitation of the main power cable, please do not connect too many cabinets to avoid excessive current and damage to the power cable.



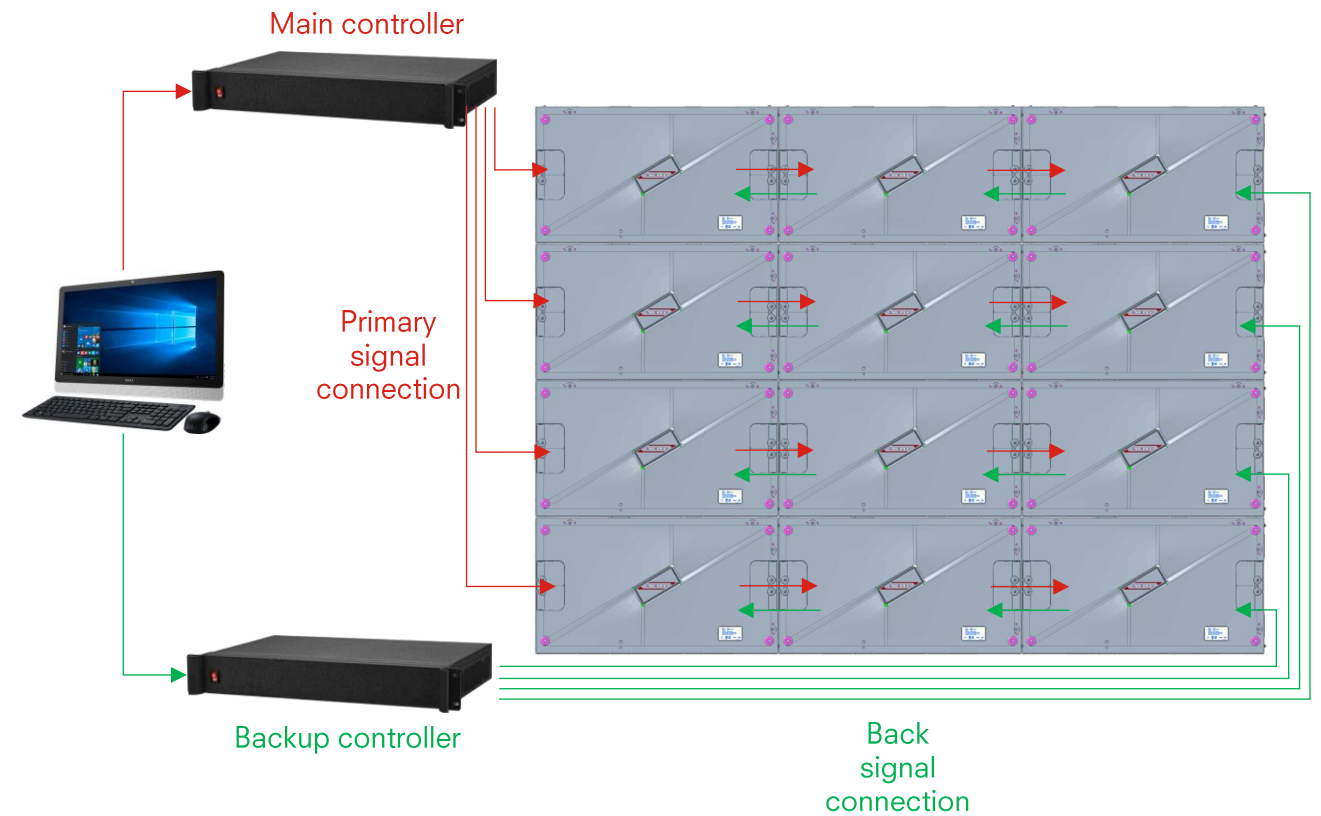
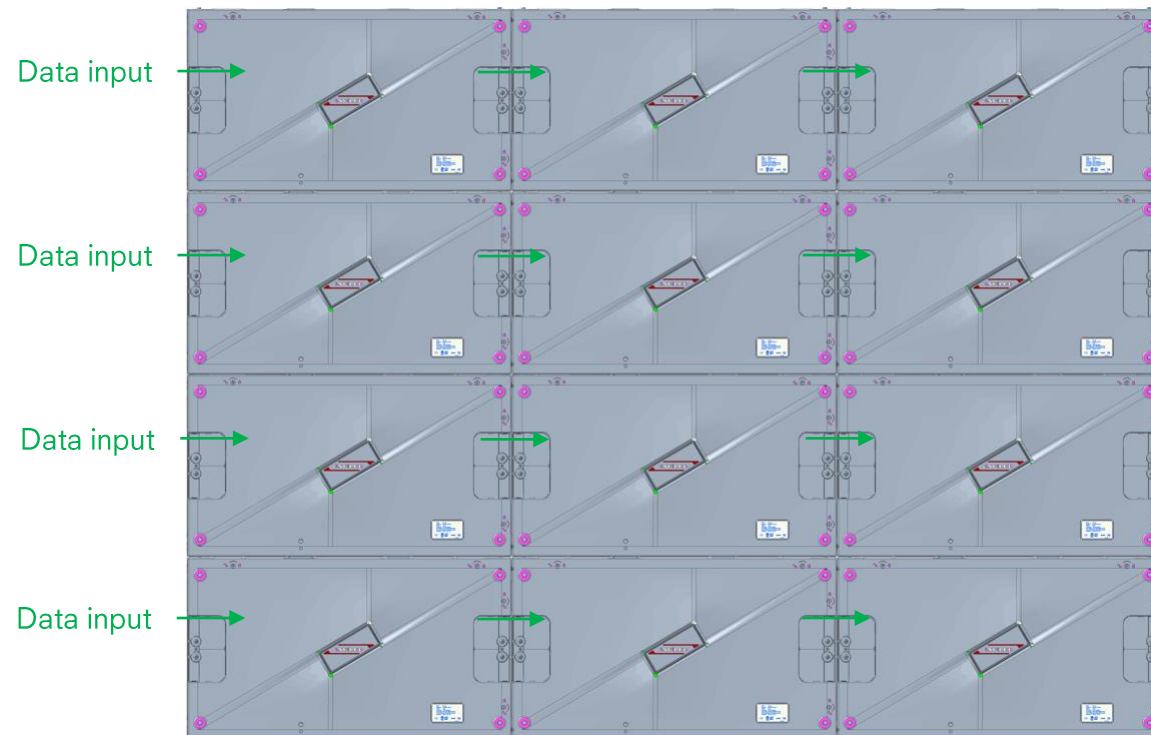
3.3 Data Connection

It is recommended that the main signal cable can be connected horizontally and vertically. To ensure the utilization rate of the port of the controller, the load of a single main data cable cannot exceed 650,000 pixels.

For fixed installation solution or large-scale activity, it's necessary to make signal loop backup. Otherwise, user should connect several backup data cables.

Signal loop backup

For fixed installation solution or large-scale activity, it's necessary to make signal loop backup. Otherwise, user should connect several backup data cables.



4. Service and Maintenance

4.1 Trouble Shooting

Description	Reason	Solutions
The screen displays pixelated or blocky flickering	Configuration file: G-clock is high	Reducing the G-clock
	The software versions are inconsistent	Check the software whether consistent or customized
The screen is flickering	Configuration file: G-clock is high	Reducing the G-clock
	DVI/HDMI cable	Replace the cable
	DVI/HDMI socket	Replace the socket
	Controller	Replace controller
	Refresh rate is wrong	Change the refresh rate
The cabinet color or brightness is different	Configuration is different	Re-send the configuration file
	The receiving card firmware is different	Check the firmware, if the firmware version is different, update to match
	Different brightness setting in the software	Uniformly select either contrast or grayscale, then save the settings
	The calibration is missing	Turn off calibration, if the display is consistent, it is likely a calibration issue. Please re-upload the calibration data.
	Modules are from different batches	1. Using the same batch of cabinets 2. Adjusting in the software to make them closer. 3. Using multi-batch adjustment
Display out of synchronization	Didn't select the function 'shorten the synchronization time	Receiving card page-More Settings-Additional function-Select 'Shorten the synchronization time', then click 'ok' and send to receiving card.
	Didn't select low latency	In the display settings menu, check the "Low Latency" option.
Module color is different when playing high brightness content	The power supply's output is lower than the spec	Replacing the power supply
	The red and black power terminals are damaged and have poor contact.	Cut off the power terminals and solder directly

Description	Reason	Solutions
Screen display confusing	Data group is confusing	Adjust the order of data groups
When the refresh rate of the sending card is set to 120Hz and the input source bit depth is changed to 10-bit, the screen displays a reddish tint	When the refresh rate is 120Hz and the input source bits depth is 10bit, one network cable can only carry one cabinet	Reduce refresh rate and input source bits depth
When the screen is operating at low brightness (10-20%) and filmed with a 50Hz camera, the captured video shows flickering	Poor performance caused by low brightness and gray cutting	Re-adjust the current gain of the configuration file and send it to the screen
The last cabinet in the signal / power chain is out of working	Receiving card is broken	Replacing the receiving card
	HUB card is broken	Replacing the Hub card
	Power supply is broken	Replacing the power supply
	Power cable is broken	Replacing the power cable
	Data cable is broken	Replacing the data cable
One part of the screen lose signal transiently, or always black out	Signal cable is disconnecting	Replacing the signal cable(or inner signal cable)
	Signal socket is broken	Exchanging the input/output to check which port has problem.
	Power supply is broken	Replacing the power supply
	Receiving card is broken	If the problem is still there after above 2 operations, jump over the 'first' cabinet with a longer signal cable to check if the cabinets back to normal, then replacing the receiving card.

Description	Reason	Solutions
Screen black out	Front-End power supply	Check the power supply to the screen
	Front-End signal	Check the main signal cable, front-end equipment, and the computer background
	Signal source	Check the front-end equipment
	Set the brightness of controller is 0	Reset the brightness
	Set the screen to black	Change the background
Multiple lines with black issue	Circuit Break	Repairing the circuit
	MOS / decode chip is broken	Replacing the Mos chip
Module is not lighting up	The module interface is defective	Repairing or replace the interface, check the wiring connection
	Receiving card is broken	Replacing the receiving card
	HUB board is broken	Replacing the HUB board
	IC 245 is broken	Replacing the IC 245
The block doesn't work	The module interface has a cold solder joint	Resolder
	IC 245 is broken	Replacing the IC 245
One column has no color	Circuit is broken	Replacing the circuit
	Driver IC is broken	Replacing the driver IC
	Red color's resistor is damaged or cold soldering	Replacing the resistor, resoldering the resistor
The block has no color	Circuit is broken	Replacing the circuit
	Driver IC is broken	Replacing the driver IC
	IC 245 is broken	Replacing the IC 245
One column has abnormal colors.	The LED is short-circuited.	Repairing or replacing the LED
	Driver IC is broken	Replacing the driver IC
More than two neighboring columns are lit at the same time when playing the slash pattern.	The output pin of the driver IC is short-circuited.	Resoldering the driver IC
	If the color is red, please check the resistor array	Resoldering the resistor
Multiple blocks has no color	Driver IC is broken	Replacing the driver IC
	Driver IC data input or output is an open circuit	Repairing the circuit

5. Appendix

5.1 Specification

	Module Number	IL-FISS-IRWP1.25Lite	IL-FISS-IRWP1.56Lite
Physical Parameters	Pixel pitch	1.25	1.56
	Pixel Configuration	3 in 1 SMD	3 in 1 SMD
	Module Resolution (WxH)	240x135	192x108
	Module Dimensions (WxH, mm)	300x168.75	300x168.75
	Weight per Module (kg)	0.368	0.34
	No. of Modules per Cabinet (WxH)	2x2	2x2
	Cabinet Resolution (WxH)	480x270	384x216
	Cabinet Dimensions (W x H x D, mm)	600x337.5x29.5	600x337.5x29.5
	Weight per Cabinet (kg/unit)	5.3	5.2
	Cabinet material	Die-cast Aluminum	Die-cast Aluminum
	Service access	Front	Front
Optical Specifications	Brightness (After Calibration, nit)	800	800
	Color Temperature (K)	6500K	6500K
	View angle (Horizontal)	160°	160°
	View angle (Vertical)	160°	160°
	Contrast Ratio	5000:1	5000:1
	Greyscale (bit)	14	14
Electrical Specifications	Power Consumption (W/Cabinet, Max.)	135	150
	Power Consumption (W/Cabinet, Avg.)	45	50
	Power Supply (V)	100-240	100-240
	Frame Rate (Hz)	50/60	50/60
	Refresh Rate (Hz)	3840	3840
	Operating Temperature (°C)	-10°C~+45°C	-10°C~+45°C
	Operating Humidity	10-90% RH	10-90% RH
Operation Specifications	IP Rating (Front/Rear)	IP30	IP30
	LED Lifetime	≥50000h	≥50000h
Certification		CE, FCC, , ETL, CB, RoHS, REACH, WEEE, PSE, LVD, BIS, PSE	

	Module Number	IL-FISS-IRWP1.87Lite	IL-FISS-IRWP2.5Lite
Physical Parameters	Pixel pitch	1.87	2.5
	Pixel Configuration	3 in 1 SMD	3 in 1 SMD
	Module Resolution (WxH)	160x90	120x135
	Module Dimensions (WxH, mm)	300x168.75	300x337.5
	Weight per Module (kg)	0.33	0.65
	No. of Modules per Cabinet (WxH)	2x2	2x1
	Cabinet Resolution (WxH)	320x180	240x135
	Cabinet Dimensions (W x H x D, mm)	600x337.5x29.5	600x337.5x29.5
	Weight per Cabinet (kg/unit)	5.2	5.2
	Cabinet material	Die-cast Aluminum	Die-cast Aluminum
	Service access	Front	Front
Optical Specifications	Brightness (After Calibration, nit)	800	1200
	Color Temperature (K)	6500K	6500K
	View angle (Horizontal)	160°	160°
	View angle (Vertical)	160°	160°
	Contrast Ratio	5000:1	5000:1
	Greyscale (bit)	14	14
Electrical Specifications	Power Consumption (W/Cabinet, Max.)	150	105
	Power Consumption (W/Cabinet, Avg.)	50	35
	Power Supply (V)	100-240	100-240
	Frame Rate (Hz)	50/60	50/60
	Refresh Rate (Hz)	3840	3840
	Operating Temperature (°C)	-10°C~+45°C	-10°C~+45°C
	Operating Humidity	10-90% RH	10-90% RH
Operation Specifications	IP Rating (Front/Rear)	IP30	IP30
	LED Lifetime	≥50000h	≥50000h
Certification		CE, FCC, , ETL, CB, RoHS, REACH, WEEE, PSE, LVD, BIS, PSE	

The parameter specifications are for reference only. The details are subject to the INFiLED official website.

INFiLED

Screen your dreams

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