



STREET CO'
DISPLAY SOLUTION EXPERT

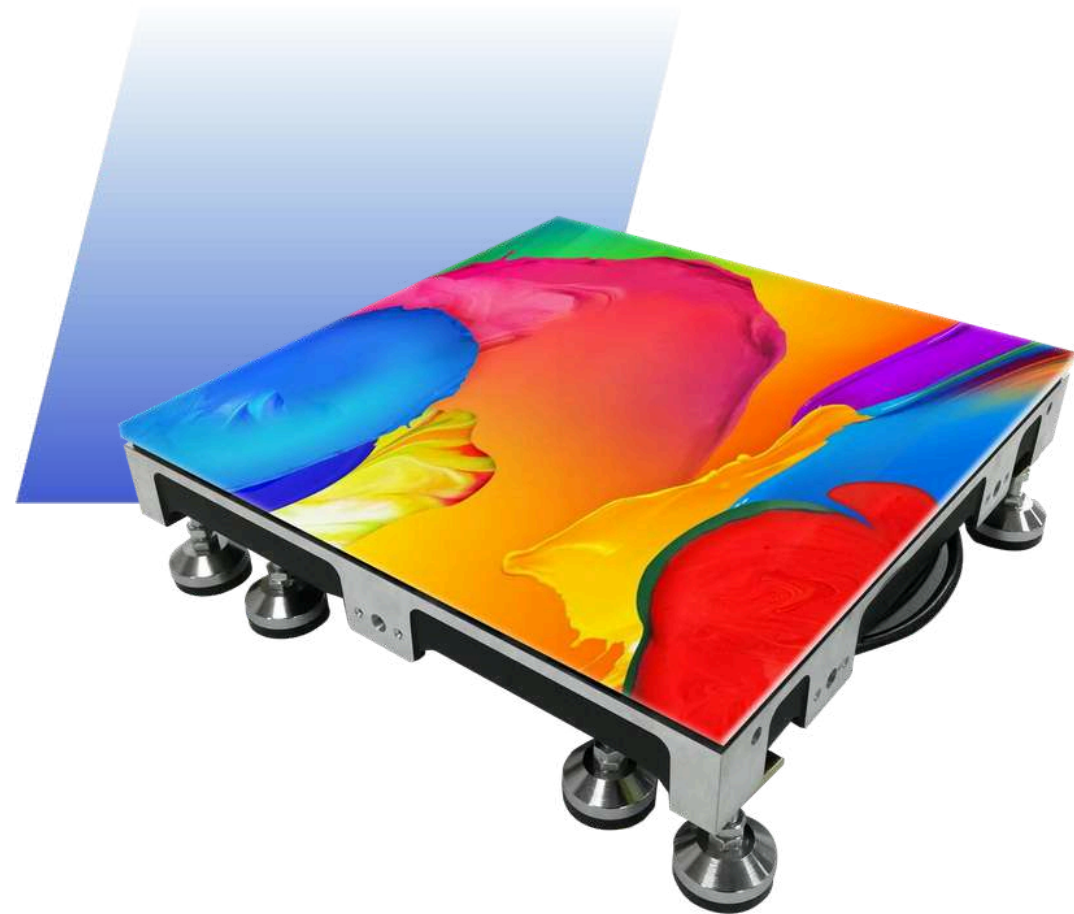
LED Floor Screen

- Indoor LED floor screen
- Outdoor LED floor screen
- LED intelligent interactive floor screen



LED intelligent interactive floor screen

Intelligent interactive floor screen is a digital display device customized for indoor and outdoor exhibition halls and special background environments. It uses the most advanced optical sensing technology in China to sense human movements and accurately capture the changes of moving objects on the LED screen. The stage renderings are based on the Puller effect, using the most advanced planar antenna technology on the market, making it also equipped with radar sensing technology, allowing users to have an immersive experience.



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Product Features



Waterproof and moisture-proof

The bottom shell, housing, power cord and signal line of LED intelligent interactive floor and module are all specially designed and equipped with waterproof and moisture-proof materials. The raw materials are made of materials with low moisture absorption coefficients and have been sealed many times. It has a good waterproof and moisture-proof function, and the front and back of the cabinet can reach the IP68 waterproof level.



Super load bearing

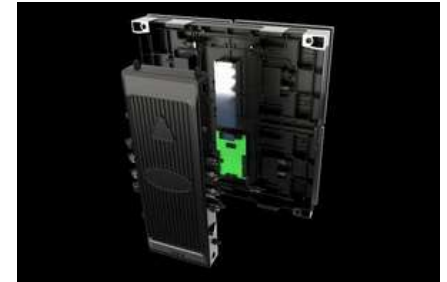
Each component of LED intelligent interactive floor screen is designed according to different mechanics, and the ultimate load-bearing capacity per square meter can be as high as 3000KGS.



Wear-resistant and flame-retardant

LED intelligent interactive floor screen housing is made of imported PC material, which has high wear resistance and flexibility, and good high and low temperature resistance.

In order to enhance the applicability and safety of adapting to the harsh outdoor environment, Xinyiguang has enhanced UV resistance, low temperature resistance and higher flame retardant properties.



Silent heat dissipation

LED intelligent interactive floor screen box power box adopts die-cast aluminum with better heat dissipation and special heat dissipation device design, which has a better silent heat dissipation function.

Product Features



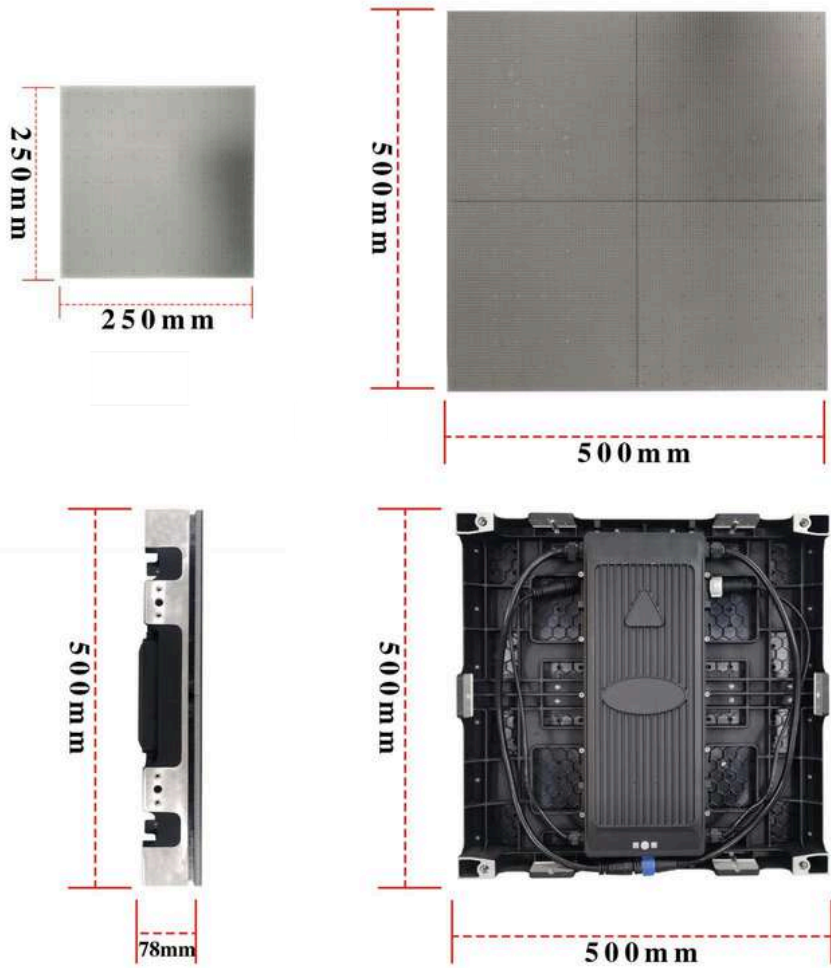
- The interactive response speed is fast, with a response time of 20 microseconds.
- Point-to-point, multi-point interaction, not limited by the number of interactive points
- The housing is made of imported high polymer PC material, with low moisture absorption coefficient, anti-skid and anti-glare design.
- The built-in optical sensor chip does not require an external interactive sensor device, and is not interfered by external light or electric waves.
- The installation structure is made of high-strength anti-corrosion materials, single-point height adjustable, non-slip and shock-absorbing design
- The software supports the production and playback of multiple interactive materials in TUOI, Flash, and UDP point-to-point formats.
- The software supports the function of sensing objects with intelligent shielding.



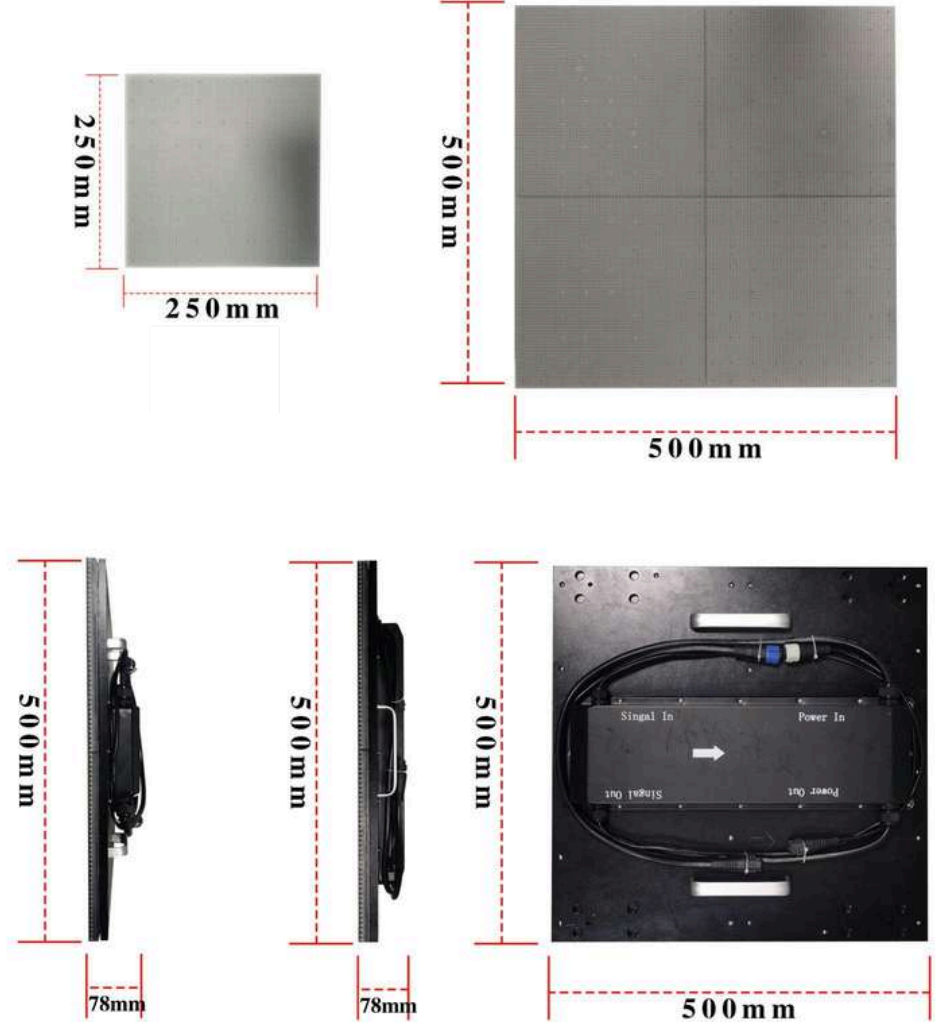
Parameters

Type	G1.95	G2.5	G2.604	G2.976	G3.91	G4.68	G4.68 Stairs	G4.81	G5.2	G6.25	G7.8125	G8.928
Module resolution	128*128	100*100	96*96	84*84	64*64	64*32	64*32	52*52	48*48	40*40	32*32	28*28
Module size	250*250mm					300*150mm	300*150mm	250*250mm				
Resolution(dots/m ²)	262144	160000	147456	112896	65025	5120	45796	43264	36864	25600	16384	12544
Brightness(cd/m ²)	Indoor:≥1000	Indoor:≥1300			Indoor:≥1300 Outdoor:≥4500				Indoor:≥1300 Outdoor:≥5000			
Cabinet size	500*500mm					600*600mm	1200*(300+150)mm	500*500mm				
Weight/Cabinet	500*1000mm					25kg/pcs				500*1000mm		
Refresh	1920/3840/7680Hz					1920/3840Hz						
Working temperature	-20 ~ 65 °C											
Protection level	IndoorIP54,OutdoorIP											
Defective ratio	68.4≤100000											
Protection technology	Anti-slip, moisture-proof, dust-proof, anti-corrosion, anti-static, anti-lightning, and has the functions of over-current, short-circuit, over-voltage, and under-voltage protection											
Cabinet material	Iron cabinet, Aluminum cabinet, Die-cast Aluminum cabinet											

Cabinet details

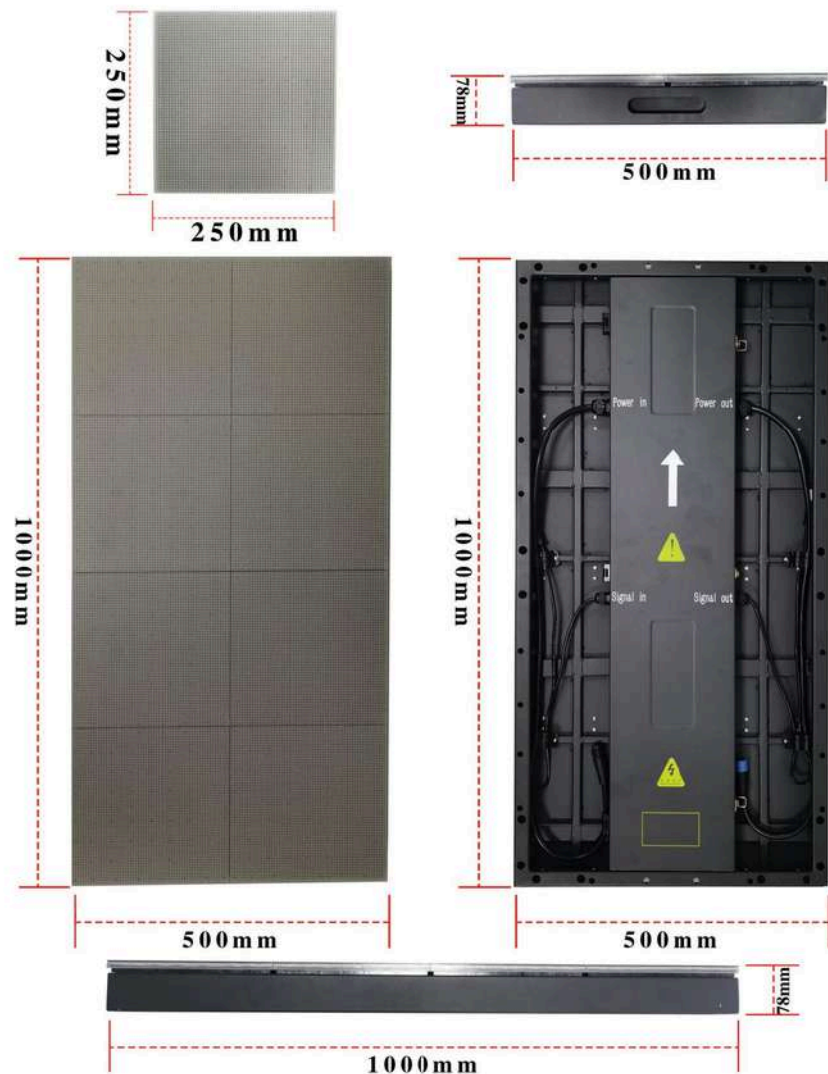


Die-cast Aluminum cabinet

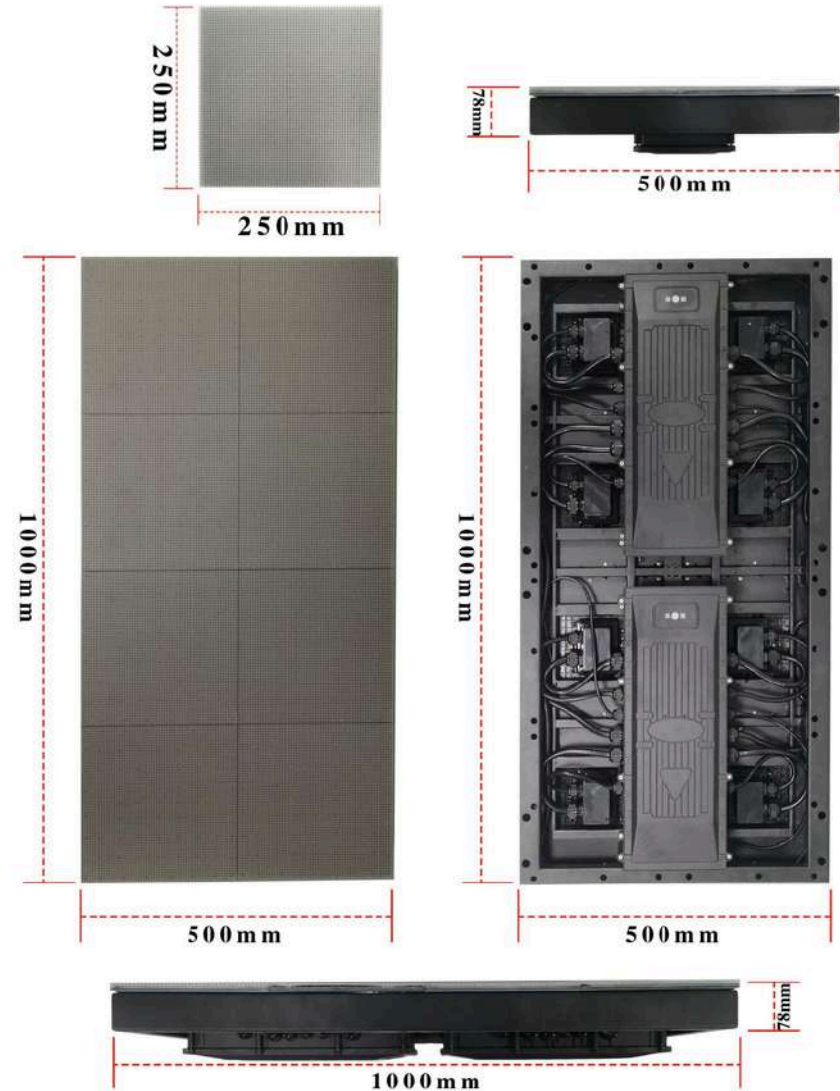


Aluminum cabinet

Cabinet details

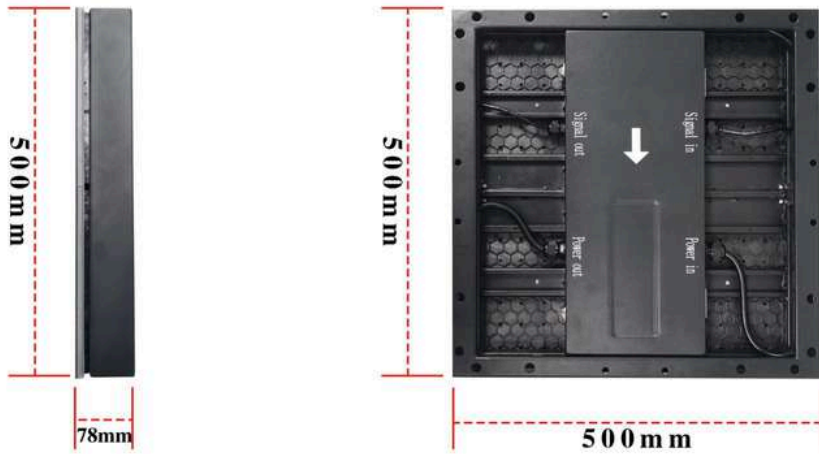
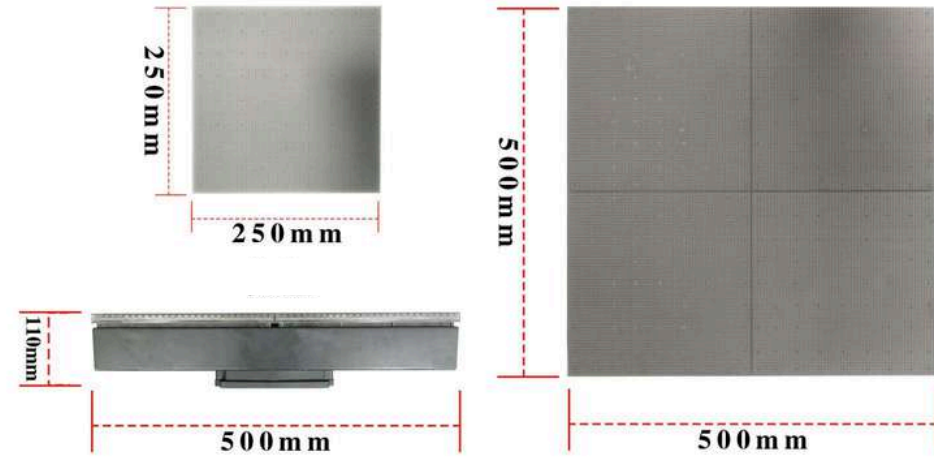
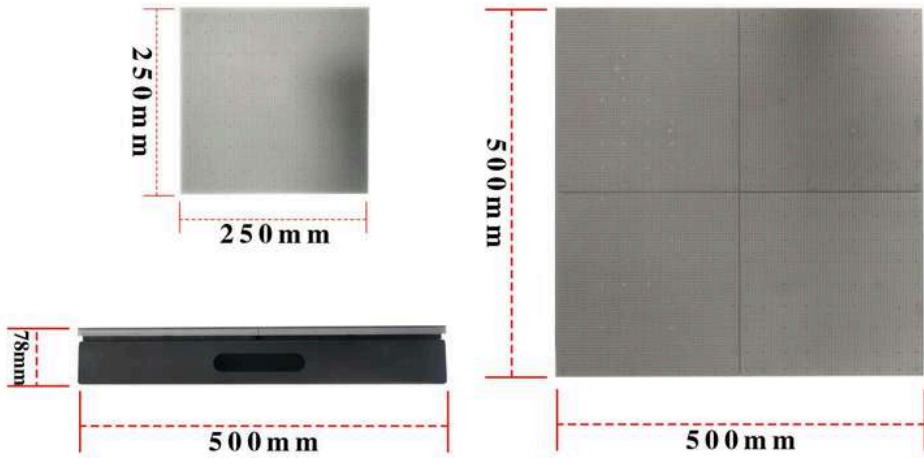


Indoor 500*1000mm Iron cabinet



Outdoor 500*1000mm Iron cabinet

Cabinet details



Indoor 500*500mm Iron cabinet

Outdoor 500*500mm Iron cabinet

Cabinet materials



Alumunum cabinet

Die-cast aluminum cabinet

Iron cabinet

Iron cabinet



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Module

The data of each unit is transmitted separately, and the occlusion of each signal source will not affect the display of the next area.

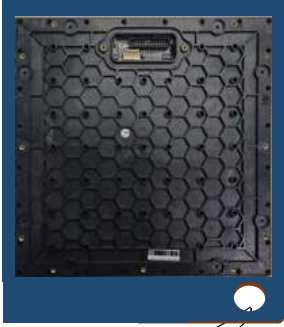
Each module integrates a relative number of sensing points. When one sensing point fails, the remaining sensing points will continue to work.



Each module area is separate data transmission. One is covered and the others will be used for data transmission to achieve interaction.

Module integrated sensing area

Cabinet components



Module



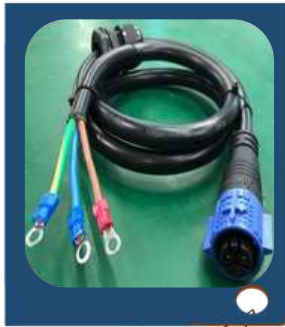
Cabinet



Receiving card



Power



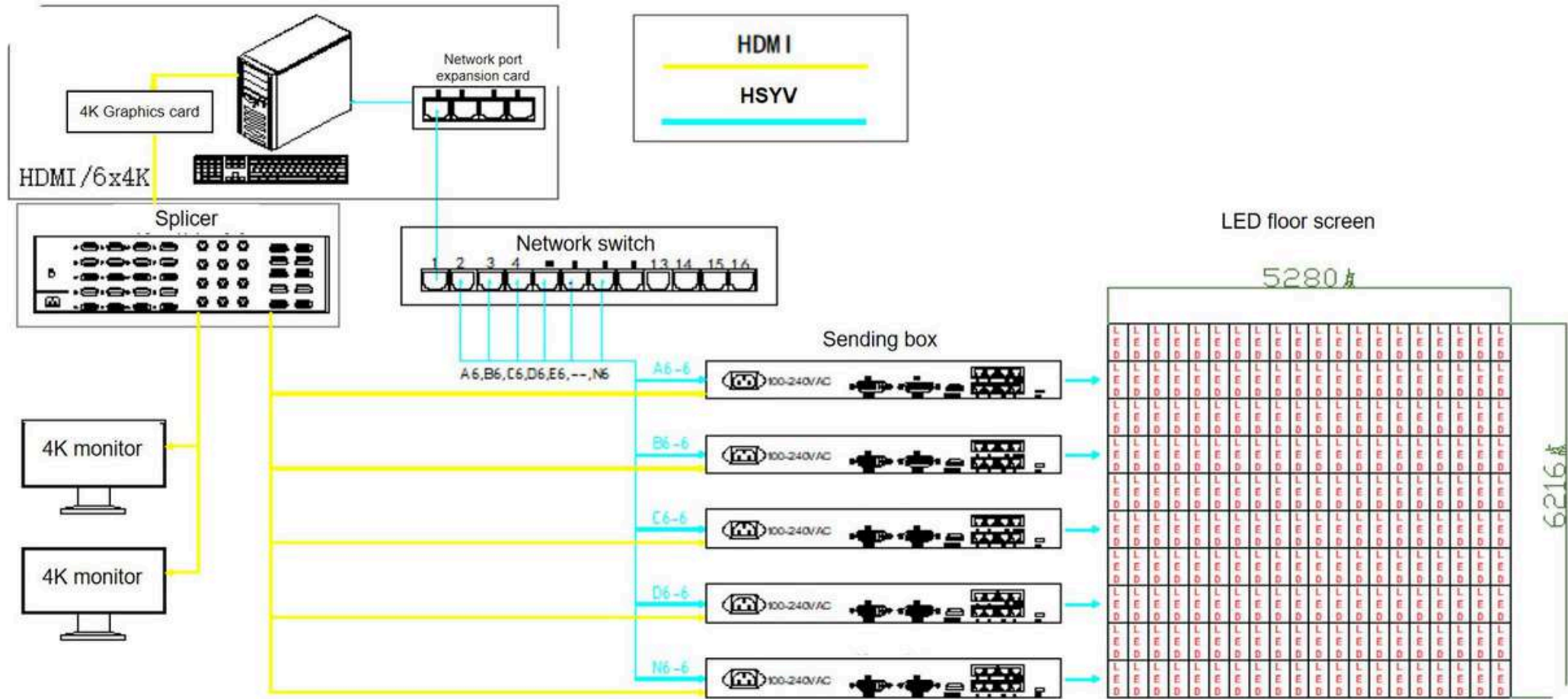
220v Power line



Network cable

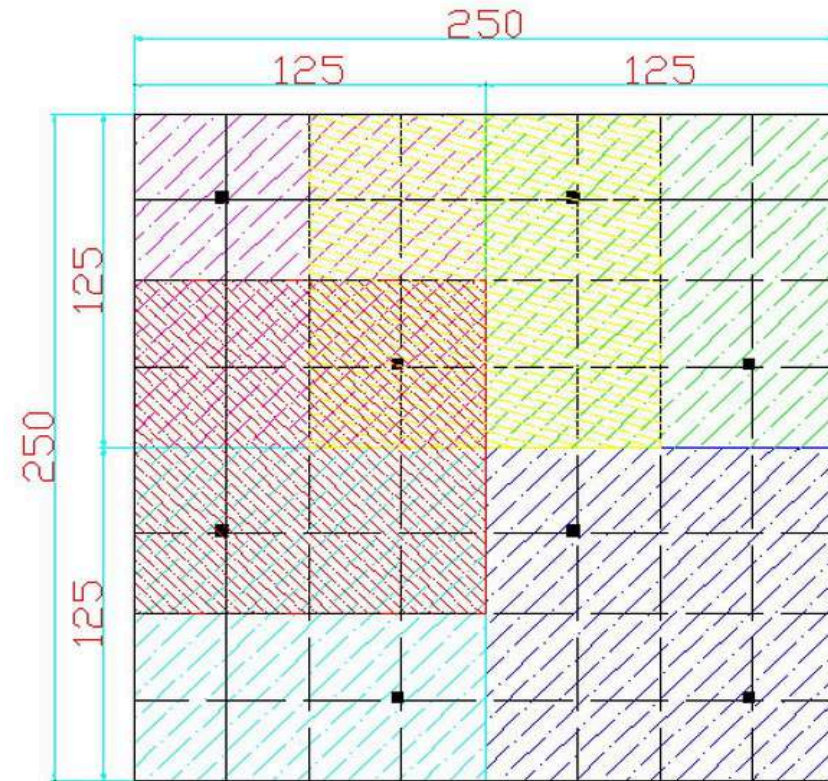
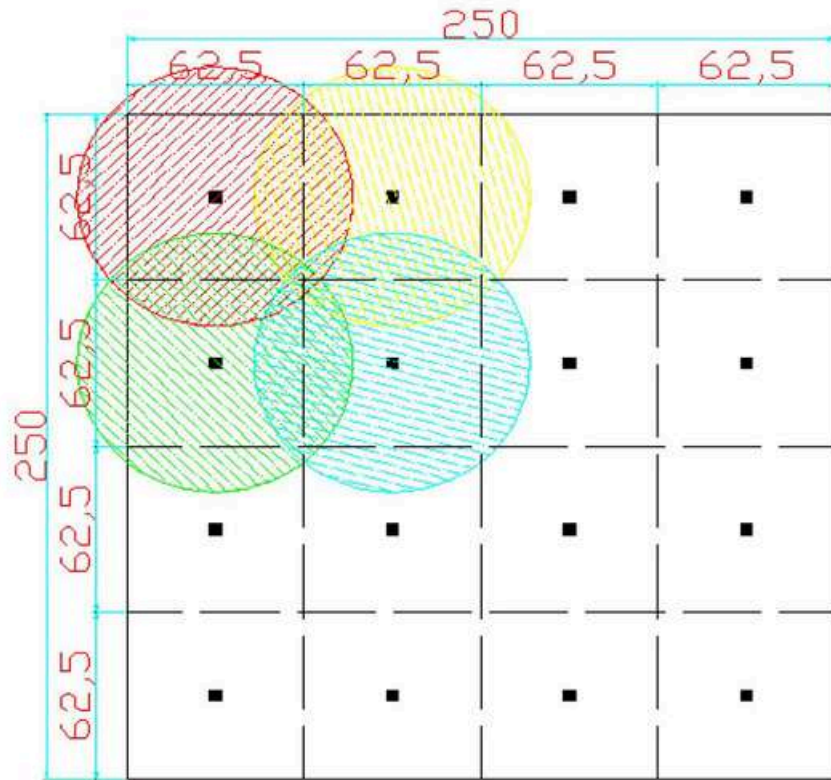


Working Principle



Working Principle

Sensor distribution simulation diagram of unit

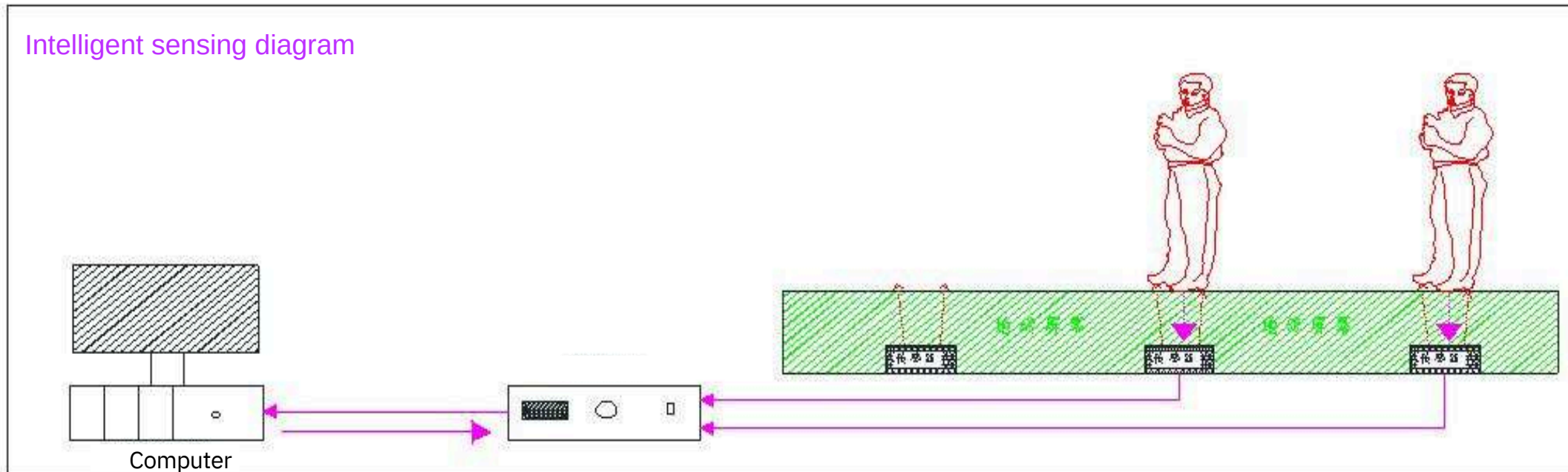


Human-Computer Interaction

The LED floor screen senses the objects on the surface of the screen through a micro-optical sensor device at close range, and transmits the information of the sensor device to the interactive main control computer. The interactive host calculates the positioning coordinates of the sensor device through calculation and processing. Send instruction information to the main control PC, and the main control PC will call the corresponding interactive material or interactive file according to the interactive main control's instruction, and display the corresponding scene material.

From control to installation, it is more convenient and fast, with fast response speed, high accuracy of sensor display, multi-scene application and multi-device linkage, so it is called LED intelligent interactive floor screen. And the LED intelligent interactive floor screen allows the audience to participate in the displayed virtual scene. When the human body or object touches the surface of the LED floor screen, the LED floor screen will change the display content accordingly.

The LED floor screen combines the intelligent interactive system and interactive materials to present the real scene in a virtual way, so as to achieve the effect of human-computer interaction.



Wall and floor screen joint interaction

How to achieve Wall and floor screen joint interaction

The floor screen can not only realize the human-computer interaction on the ground but also realize the interactive interaction between the floor and the wall. Linkage is a combination of intelligent interactive LED floor screen and interactive LED video wall. Its effect display and special effect display have reached the high-tech level in many fields. In particular, the wall and floor linkage display not only tests the splicing effect of the wall screen and floor screen but also tests the splicing technology of video images. The picture can be more immersive when the two are combined. The LED intelligent interactive floor screen and LED video wall of StreetCo to adopt advanced induction interaction technology. The video wall and floor screen are connected through our linkage software, and the video wall and floor screen can interact and control in real-time. The perspective effect is more vivid and the application field is wider. The function of the wall and floor screen is greatly improved. More commercial value has been realized.



Interaction Type and Working Principle

At present, LED screen achieves the interaction between people and screen by sensing capture technology to achieve interactive function. There are many kinds of sensor capture technology . LED commonly used several interactive ways: **body feeling interaction, radar interaction, infrared frame interaction, intelligent interaction and so on.**

Body feeling interaction

It is to place a set of devices that can sense the human body at a certain distance from the experiencer. When the experiencer leans into the sensing range of the device, the sensing device will start the sensing function for interaction.

The working principle is that the sensing device takes pictures by an infrared camera, calculates and locates the captured image to locate the coordinates of the experiencer, and then starts the corresponding interactive scene material to achieve human-computer interaction.

DISADVANTAGE : It is only applicable to the screen far away from the wall or the human body, and it is not waterproof and not suitable for outdoor use. Suitable for small area screen.

Radar interaction

large and small area of LED screen can be used, mainly for the same surface induction LED screen. The radar sensing device is installed on the edge of LED screen. When an object touches the LED screen surface, the radar sensing device will start the interactive function.

The working principle is to transmit radar wave. The radar wave forms a semicircle shape, adheres to the surface of LED screen and shoots to the other side of LED. The induction area is the semicircle area of radius according to the transmitting distance of radar wave. When the radar wave is blocked by an object, the radar device starts the interactive device. After positioning the coordinates of the object through the coordinates of the radio wave, the corresponding interactive scene material is activated to achieve human-computer interaction.

DISADVANTAGE:it can only sense the first layer of objects. When there are multiple layers of objects, the objects behind can not be sensed. The positioning area is large and inaccurate. The requirements of installation site are high many sites can not be applied. Moreover, it is difficult to splice radar in large area display, there are many external lines, and the power supply of external power supply is prone to failure.



Interaction Type and Working Principle

At present, LED screen achieves the interaction between people and screen by sensing capture technology to achieve interactive function. There are many kinds of sensor capture technology . LED commonly used several interactive ways:
body feeling interaction, radar interaction, infrared frame interaction, intelligent interaction and so on.

Infrared frame interaction

Mainly for small area led or LCD screen. The infrared frame device is installed on the edge of LED screen. When an object touches the surface of LED screen, the infrared frame works to start the interactive function.

The working principle is that infrared light is transmitted by infrared light, and the infrared device at the transmitting end pastes the infrared light on the surface of LED screen to the infrared receiving end of the opposite side, and sets a group of infrared devices according to a certain distance. When an object blocks the infrared light, the infrared device starts the interactive device to locate the coordinates of the object by blocking the infrared light.

DISADVANTAGE : Only suitable for indoor small area screen, not for large area screen. It is not waterproof and moisture-proof and easy to be damaged.

Intelligent interaction

Our intelligent interaction adopts the most advanced micro sensing technology (optical sensing) in the world. The micro sensing device is placed on the module light board of LED floor screen, and the interactive function is activated when an object contacts the surface of the LED floor screen.

The working principle is that the sensing device emits special light waves from the inner lamp board of the LED floor tile panel module to the screen surface. When an object contacts the surface of the screen and blocks the light wave emitted by the sensing device, the interactive software locates the object coordinates through the coordinates of the sensing device.



Intelligent Interaction Advantages

ADVANTAGE : Our intelligent sensing, also known as optical sensing, uses special optical principles to sense and locate objects without the influence of light. Using the world's most advanced micro sensor and SMT technology, combined with our innovative circuit design, the sensor is built into the module. It has better moisture resistance, better stability and easy protection. Our module adopts special protection processing, internal control signal wiring, video signal and sensing control signal goes through the same control line, without multiple groups of wiring, no external power supply. So it can be used indoors and outdoors. The sensing method is from bottom to top, evenly and reasonably distributed sensing, with high sensing accuracy and fast response speed. In video signal control and fusion, multi-element infinite splicing can be realized, and multi-point simultaneous interaction can be realized without the restriction of interaction points. Without external sensor equipment and external control signal circuit, the appearance is neat and beautiful. It can be applied to all kinds of special sites which are not on the same sensing surface or are covered by objects or have no sensing equipment installed.



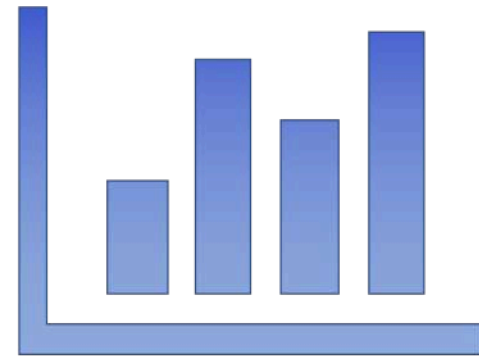


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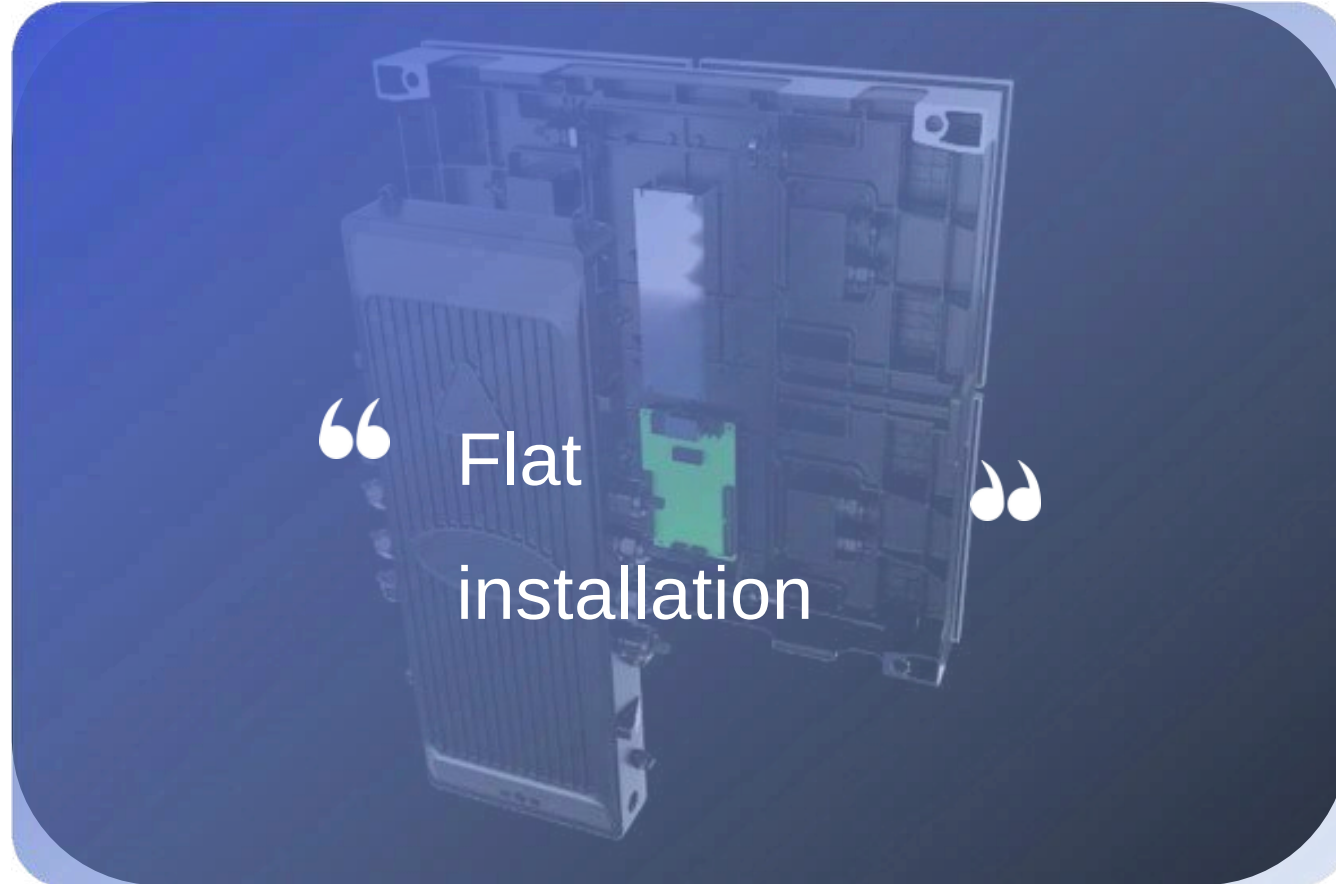
Installation Methods

- Flat installation
- Embedded installation





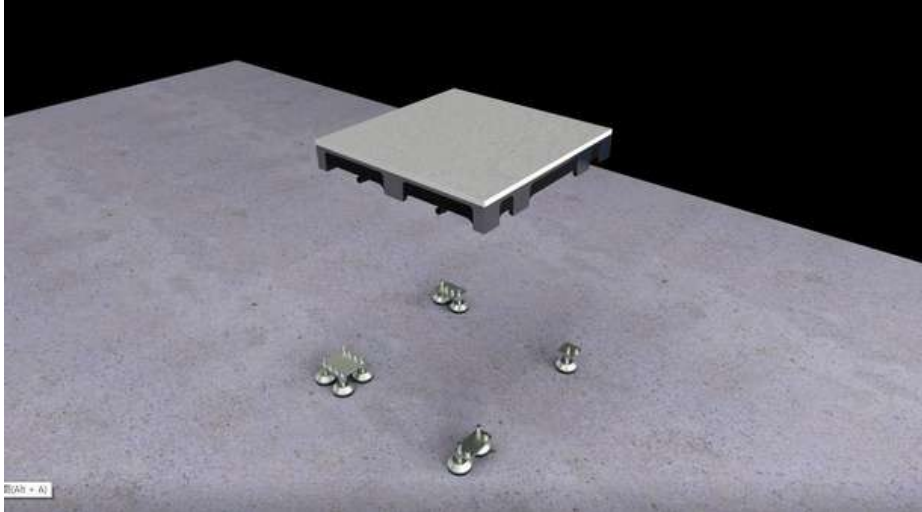
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Flat installation



1. On a relatively flat ground, place the floor support at the position as shown in the figure (the distance between adjacent floor supports is 500mm*1000mm).

2. Connect the positioning holes at the bottom of the cabinet with the positioning posts on the surface of the floor support; connect the positioning holes of the cabinet with the four floor supports in turn (the arrow on the back of the cabinet must be in the same direction).

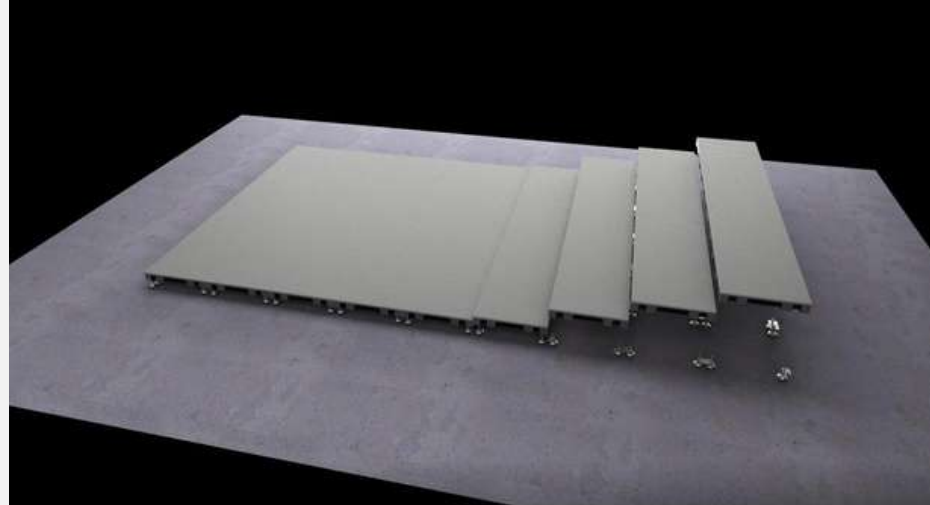


Flat installation

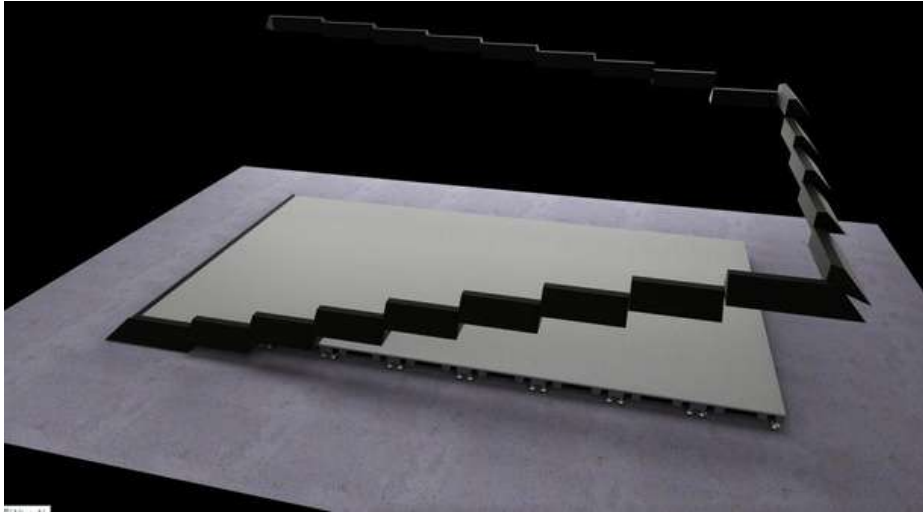


4.The cabinets are connected in turn according to the above content, as shown in the figure.

3.Connect the power cable and signal cable on the back of the cabinet to another cabinet in turn (Note: the cabinet faces the same).

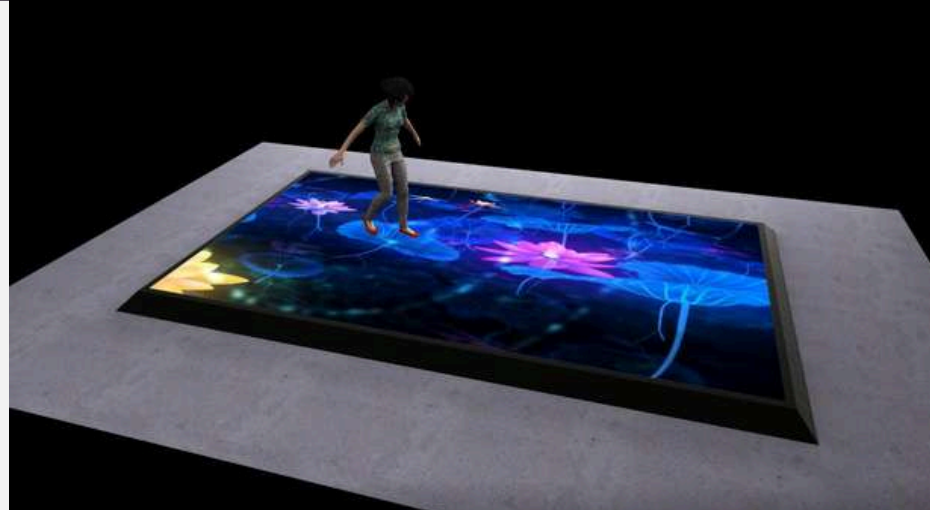


Flat installation



5. After the installation is finished, you can decide whether to install the edging to enhance the aesthetics according to actual needs.

6. Regular maintenance is required during the use of the screen to ensure the use time of the screen.





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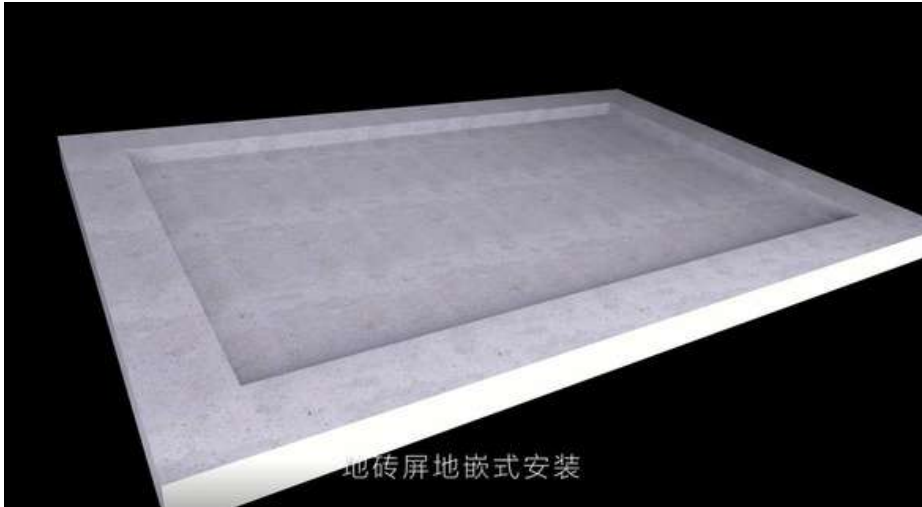
“ Indoor embedded
installation ”



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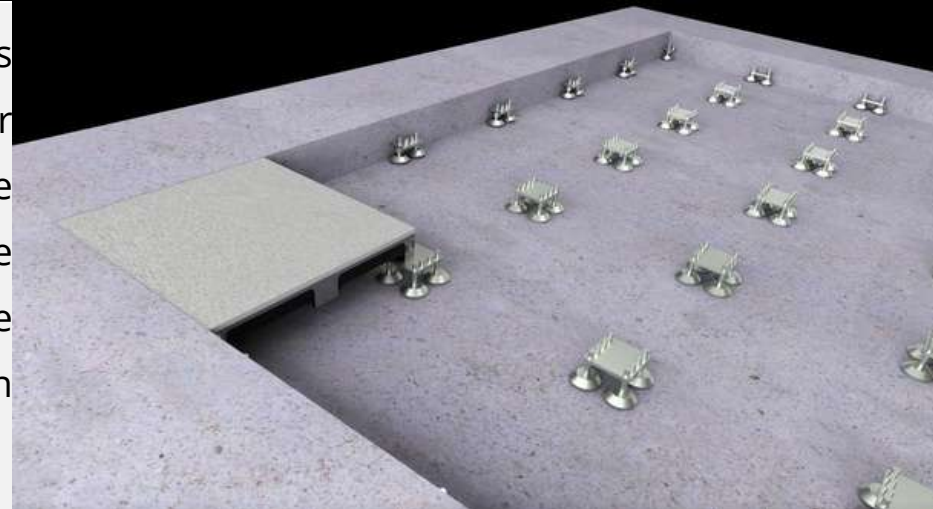
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Indoor embedded installation



1. Place the floor supports in a relatively flat scene with the depth of the foundation pit between 130mm-170mm. The placement position is as shown in the figure (the distance between adjacent floor supports is 500mm*1000mm).

2. The positioning hole at the bottom of the cabinet is connected with the positioning column on the floor support; the positioning holes of the cabinet are connected to the four floor supports in turn, and the height of the floor support is adjusted to make the surface of the screen and the ground level, as shown in the figure.

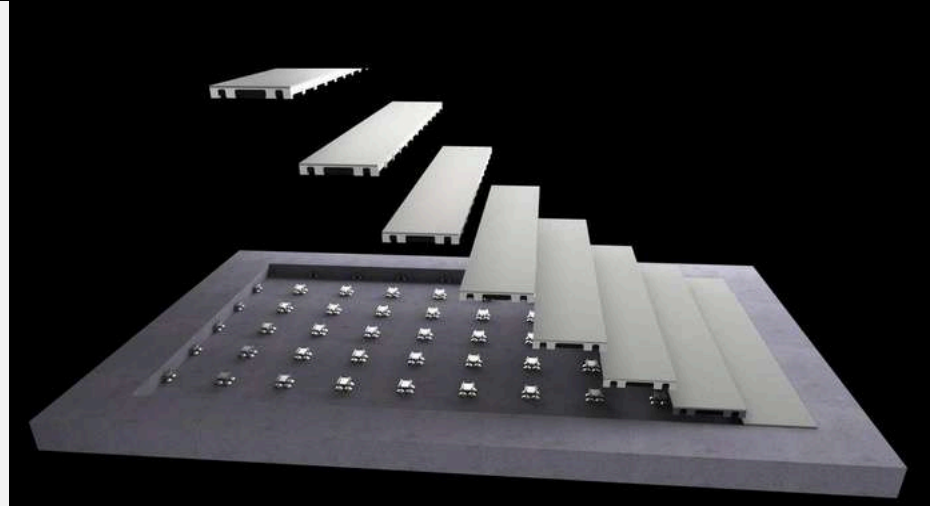


Indoor embedded installation

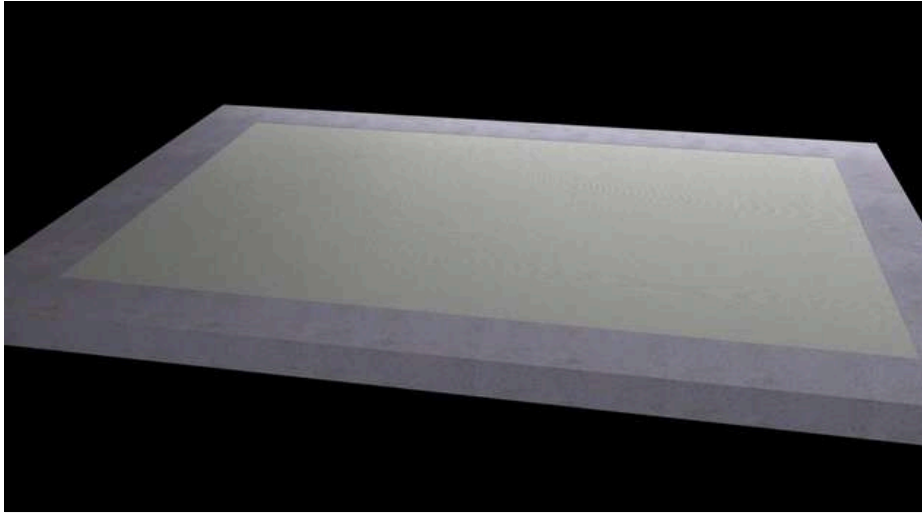


3. Connect the power cable and signal cable on the back of the cabinet to another cabinet in turn. (Note: the cabinet faces the same)

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Indoor embedded installation



5. After the installation is finished, you can decide whether to install the edging to enhance the aesthetics according to actual needs.

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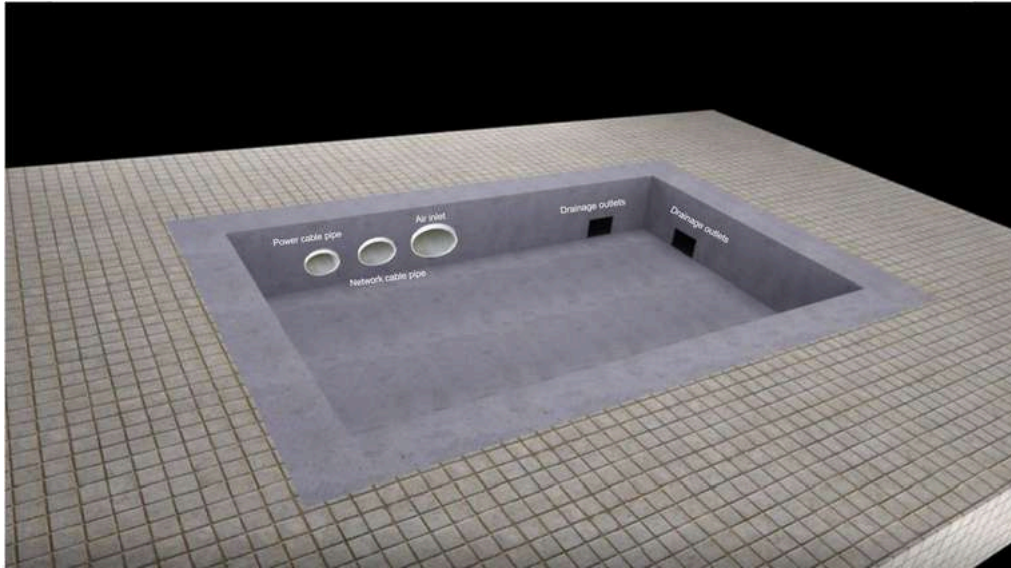
“ Outdoor embedded
installation ”



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Outdoor embedded installation

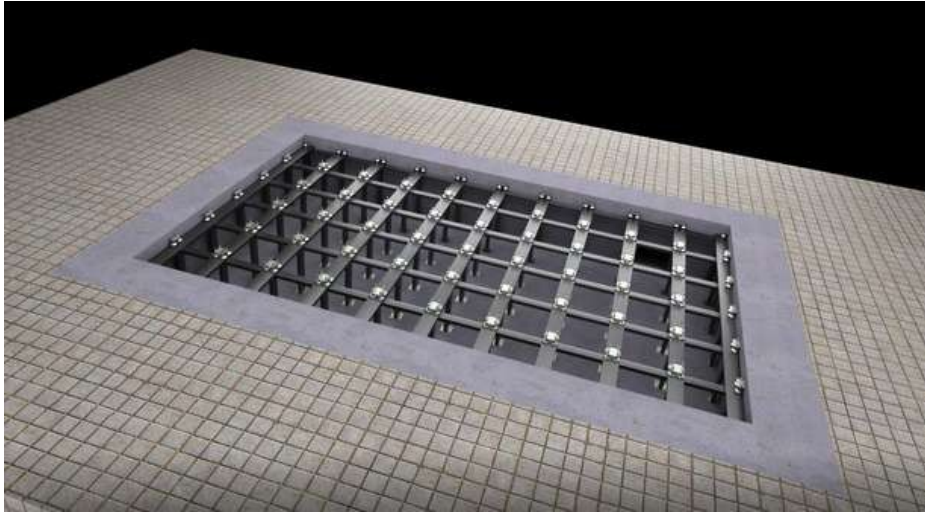


2. Build a 300mm-650mm steel structure in the foundation pit (Note: 130mm-170mm height should be reserved between the surface of the steel structure and the ground; the distance between adjacent steel structures is 500mm*1000mm)

1. The depth of the outdoor foundation pit needs to be between 500-800mm, and reserved drainage outlets, exhaust outlets, network cable pipes and power cable pipes, and route the wires into the foundation pit in advance. The distance from the control room to the screen should not exceed 80m; as shown in the figure.

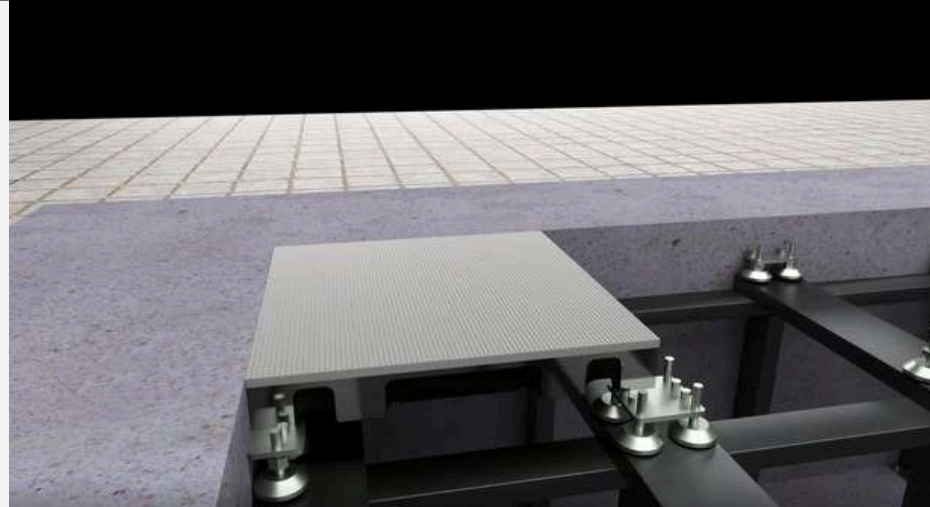


Outdoor embedded installation



3. Place the floor support on the surface of the steel structure, as shown in the figure (the distance between adjacent ground supports is 500mm*1000mm)

4. The positioning hole at the bottom of the cabinet is connected with the positioning column on the floor support; the positioning holes of the cabinet are connected to the four floor supports in turn, and the height of the floor support is adjusted to make the surface of the screen and the ground level, as shown in the figure.

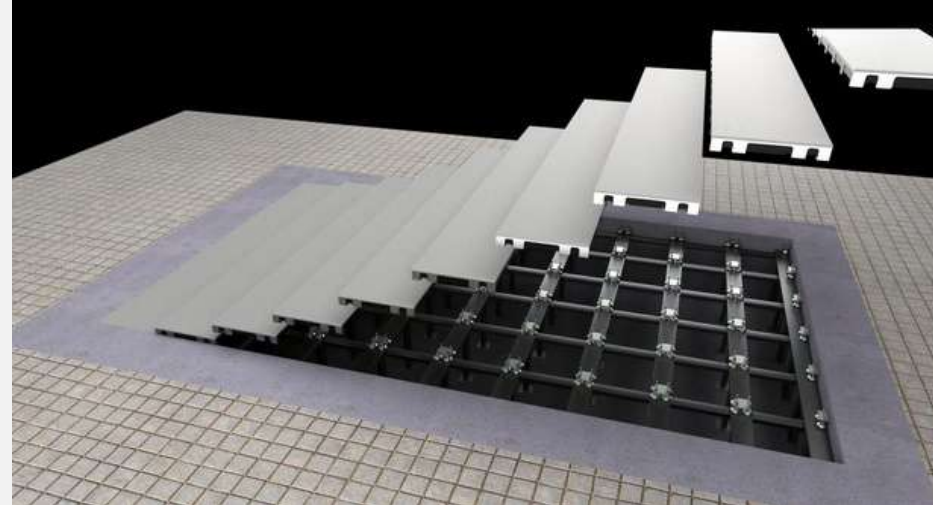


Outdoor embedded installation

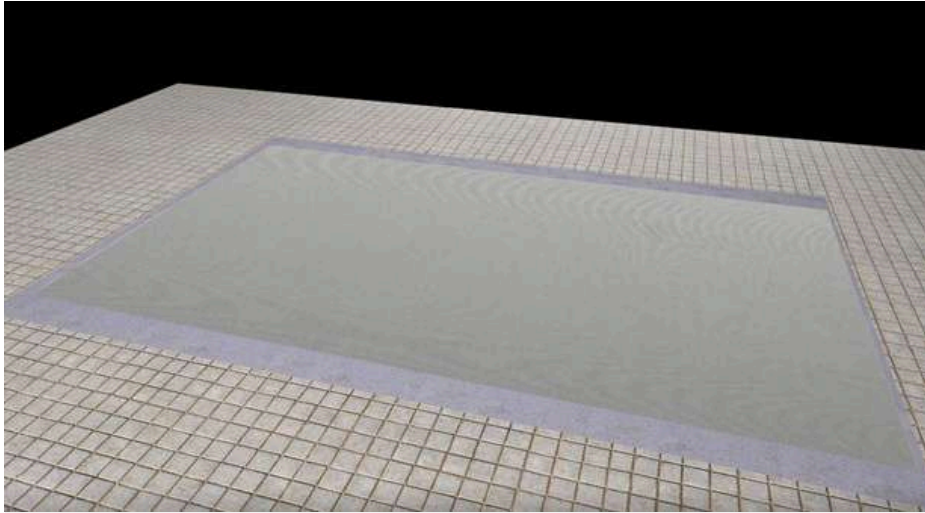


5. Connect the power cable and signal cable on the back of the cabinet to another cabinet in turn. (Note: the cabinet faces the same)

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Outdoor embedded installation



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6. Regular maintenance is required during the use of the screen to ensure the use time of the screen.





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Application





Application

- 1)Exhibition : Museum, municipal planning hall, science and Technology Museum, exhibition hall, exhibition, etc.
- 2) Catering industry : hotel ballroom or passageway and lobby, restaurant's ordering area or important passageway, etc.
- 3) Entertainment industry : bar counter, main channel, private room floor, etc.
- 4) Leasing industry : main stage of large-scale commercial performance, major events, wedding and birthday celebration, media, etc.
- 5) Education industry : school laboratory, pre job training, kindergarten, preschool training, special education, etc.
- 6) Scenic spots : Glass skywalk, reception center, recreation center, viewing platform, etc.
- 7) Municipal projects : Garden Road, square, etc. Monitoring center: command room, control room, etc.
- 8) Real estate center : Sales Center, prototype room, etc.
- 9) Financial center : Stock Exchange Center, headquarters of bank, etc.
- 10) Commercial complex : Main passageway of shopping mall, central square, courtyard, cross street bridge, children's playground, etc.



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Cases



Cases



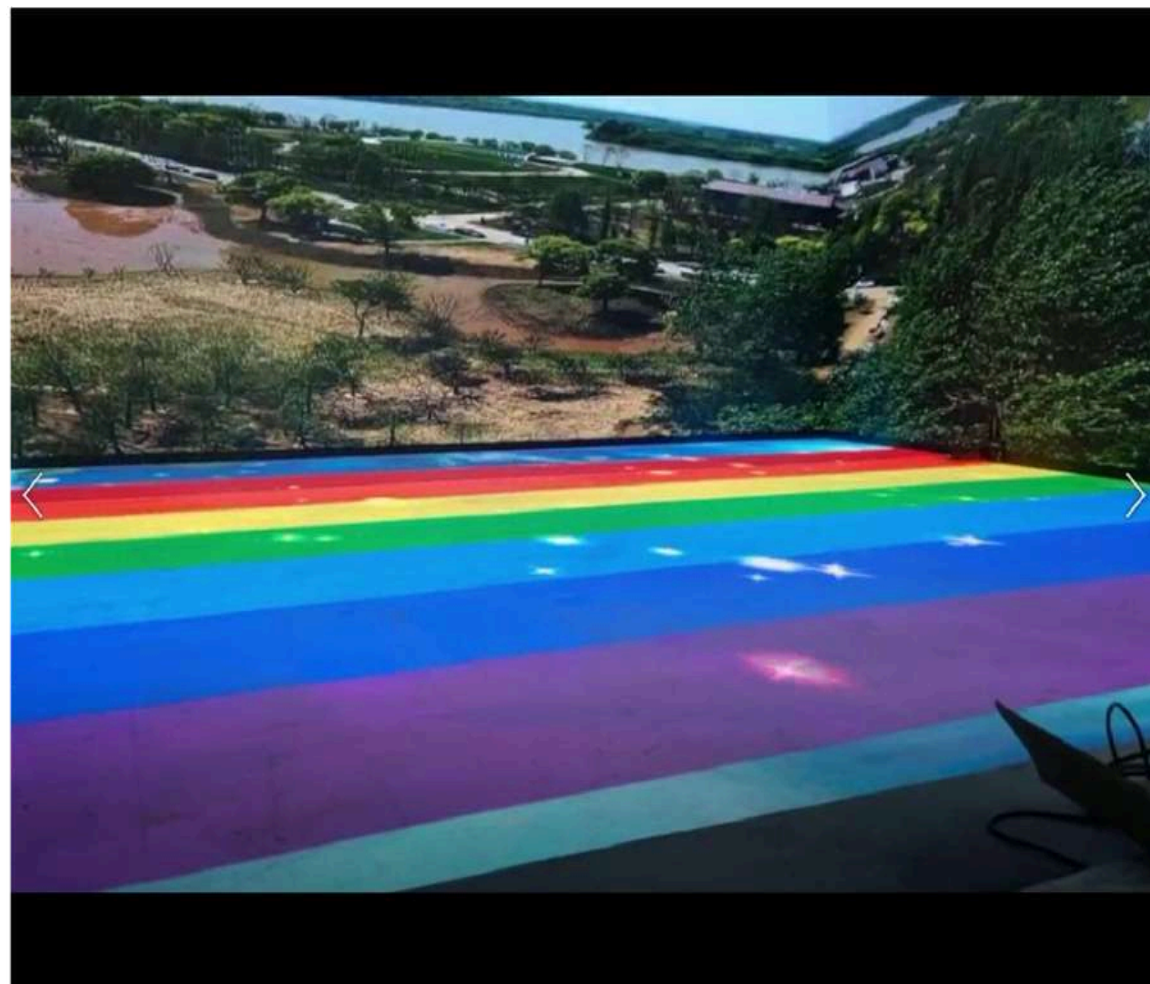
Russia-P2.976-288m²

Cases



Guangdong-P3.91-60m²

Cases



Hubei-
P2.976 -0m²

Cases



Car show-P3.91-10

Cases



AI Exhibition-P3.91

Cases



Japan-P3.91-20m²

Cases



Jiangsu-P3.91-80m²

Cases



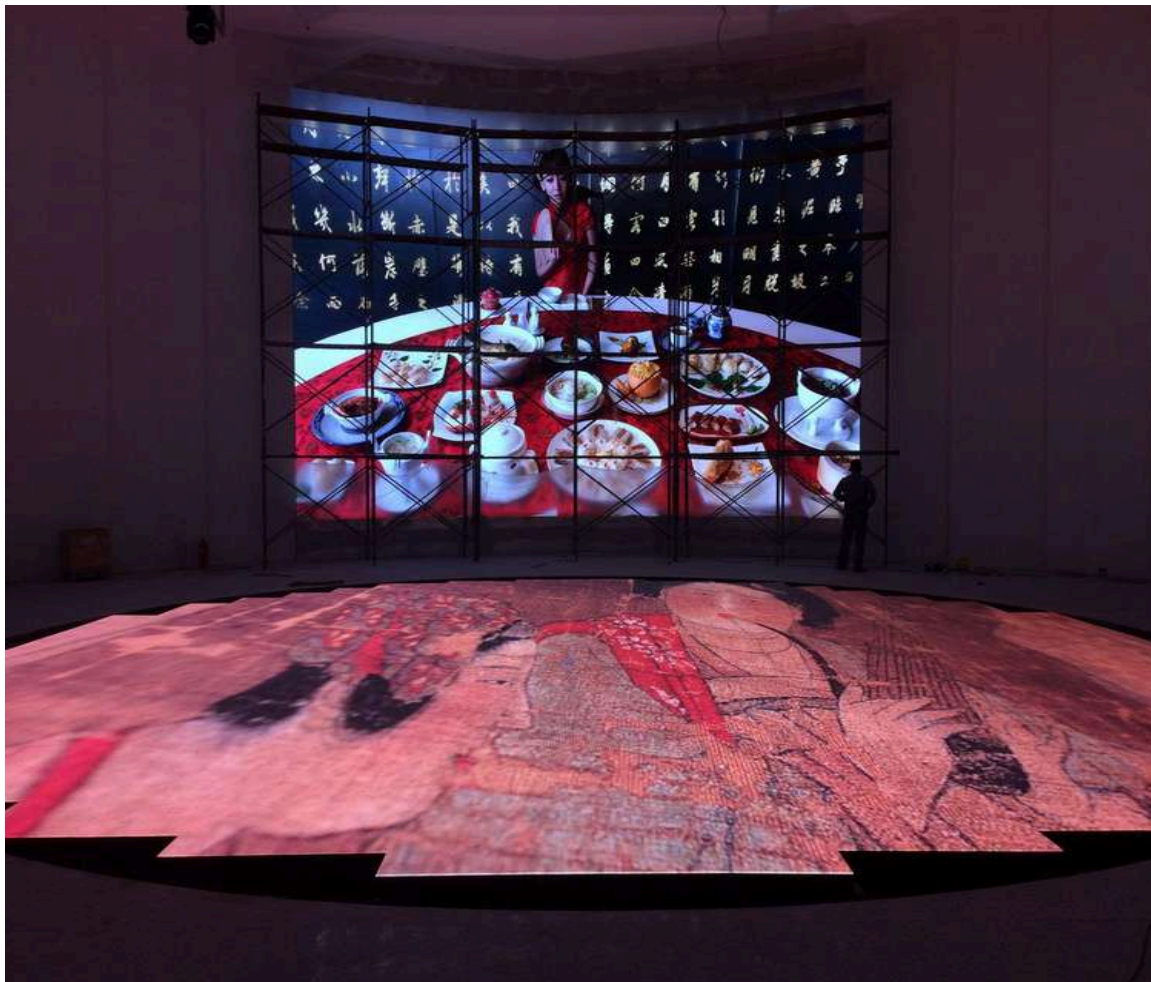
Henan-P6.25-108m²

Cases



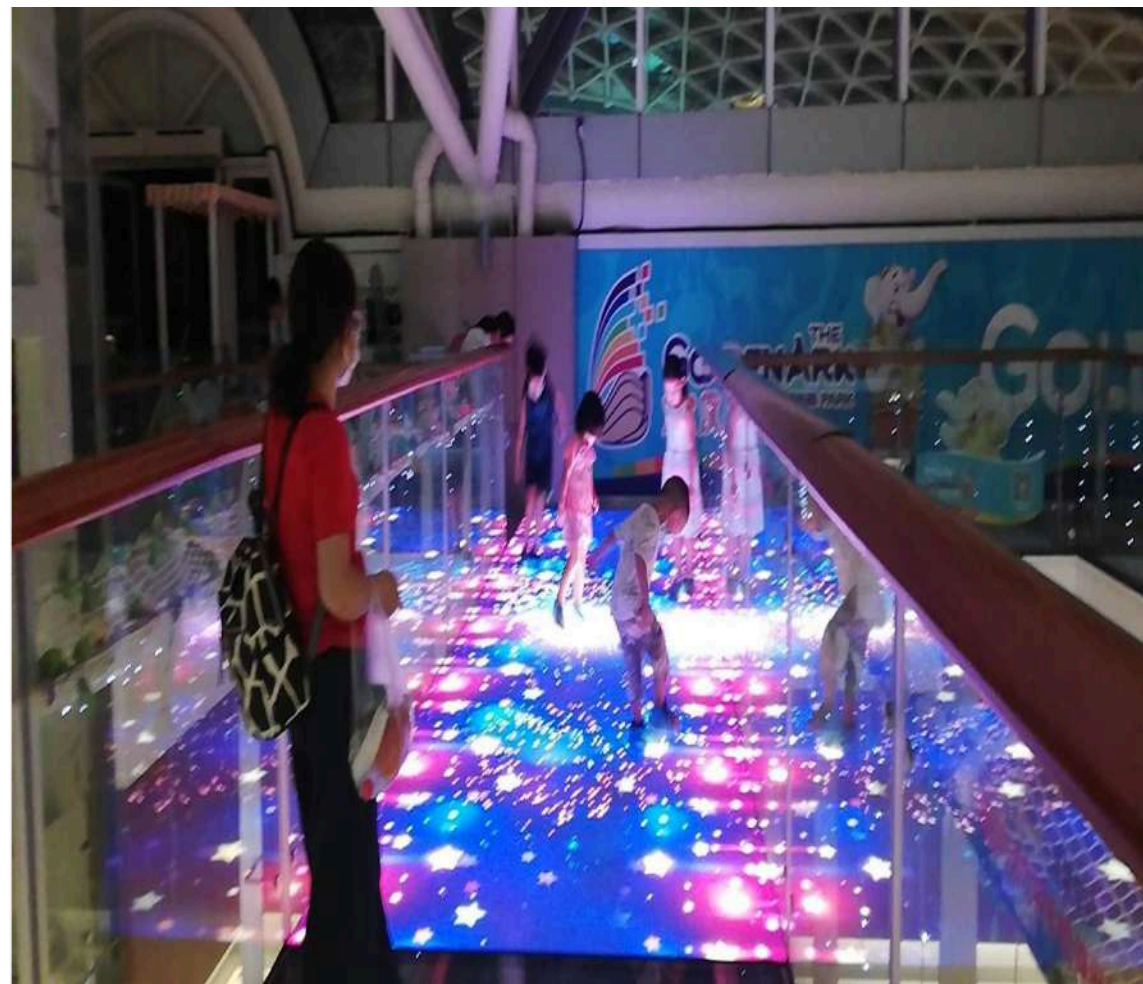
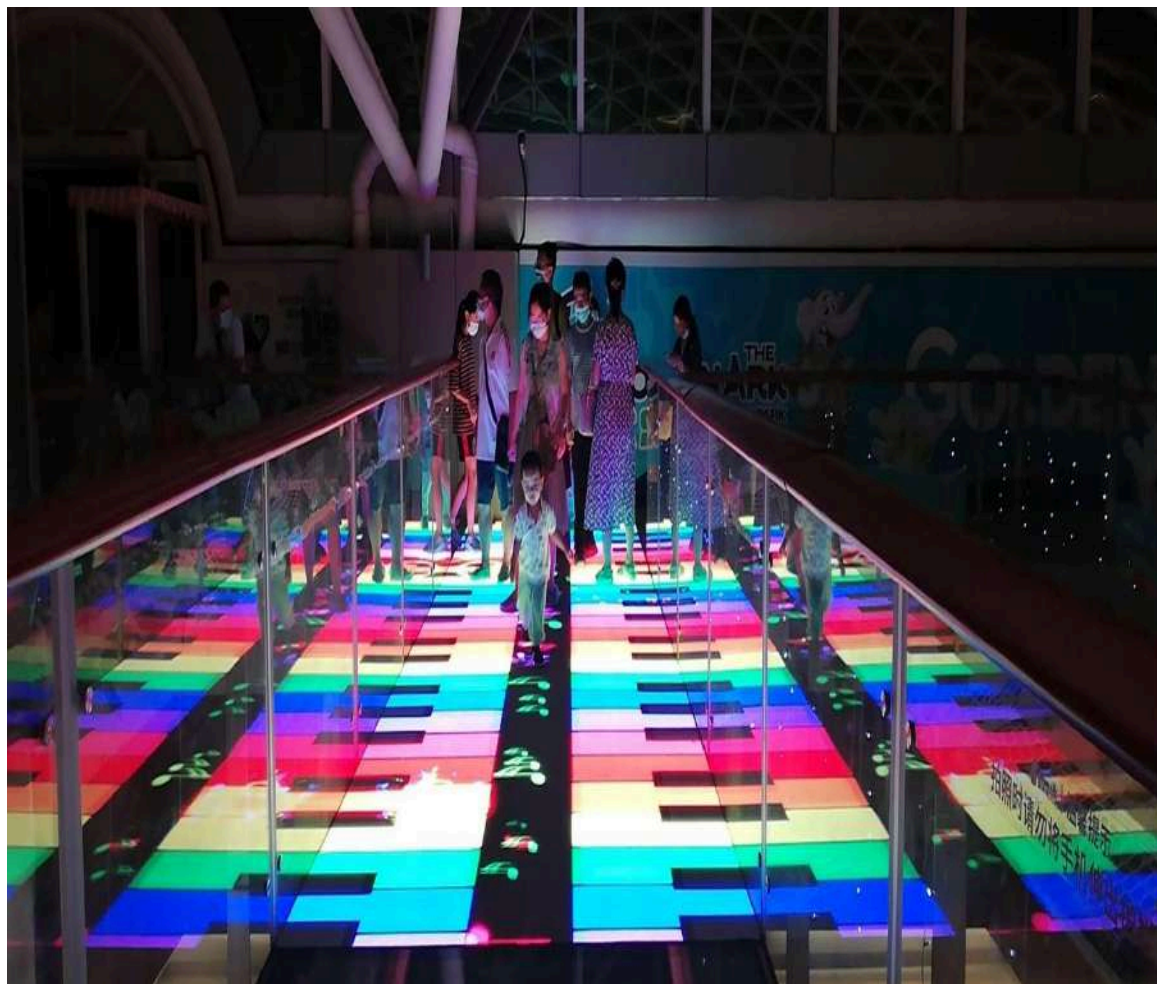
Shandong-P3.91-150m²

Cases



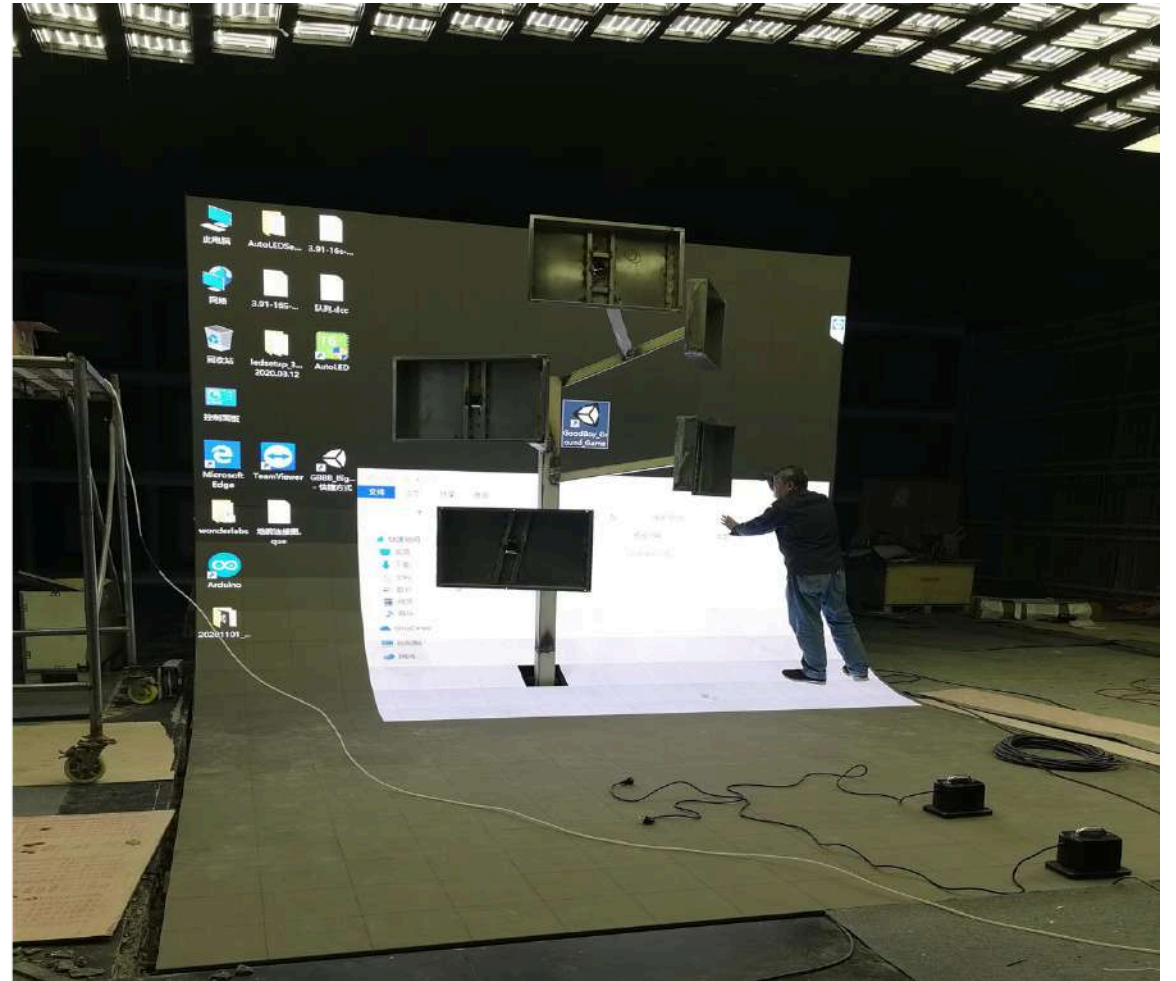
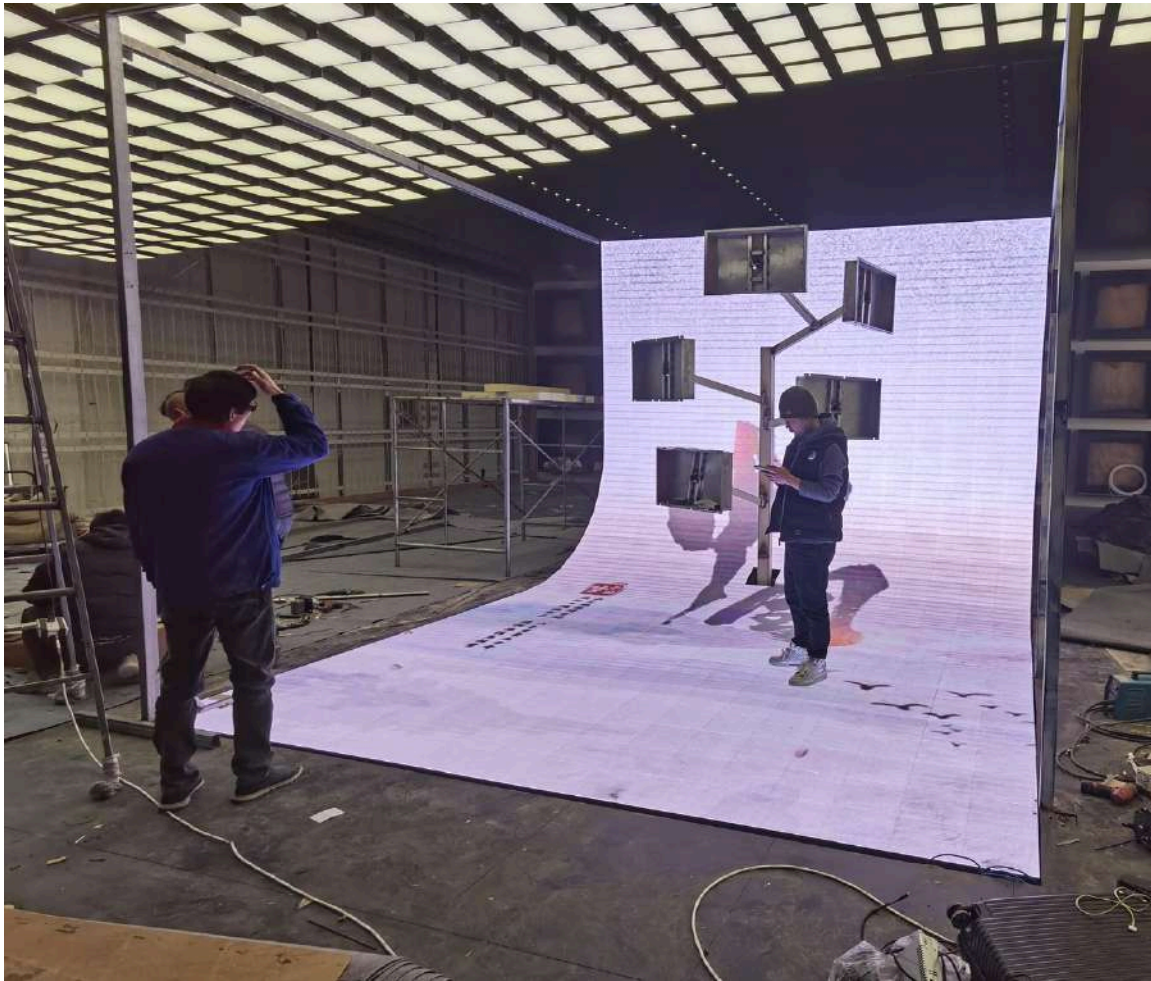
Shandong-P3.91-150m²

Cases



Guangdong-P3.91-80m²

Cases



Guangdong-P3.91

Cases



Shandong-Train Command Center-P6.25

Cases



Gungdong-P6.25-100m²

Cases



USA car show-P6.25-56m²

Cases



2019-Changsha-P3.91-300m²

Cases



2018-Singapore-P6.25-100m²

Cases



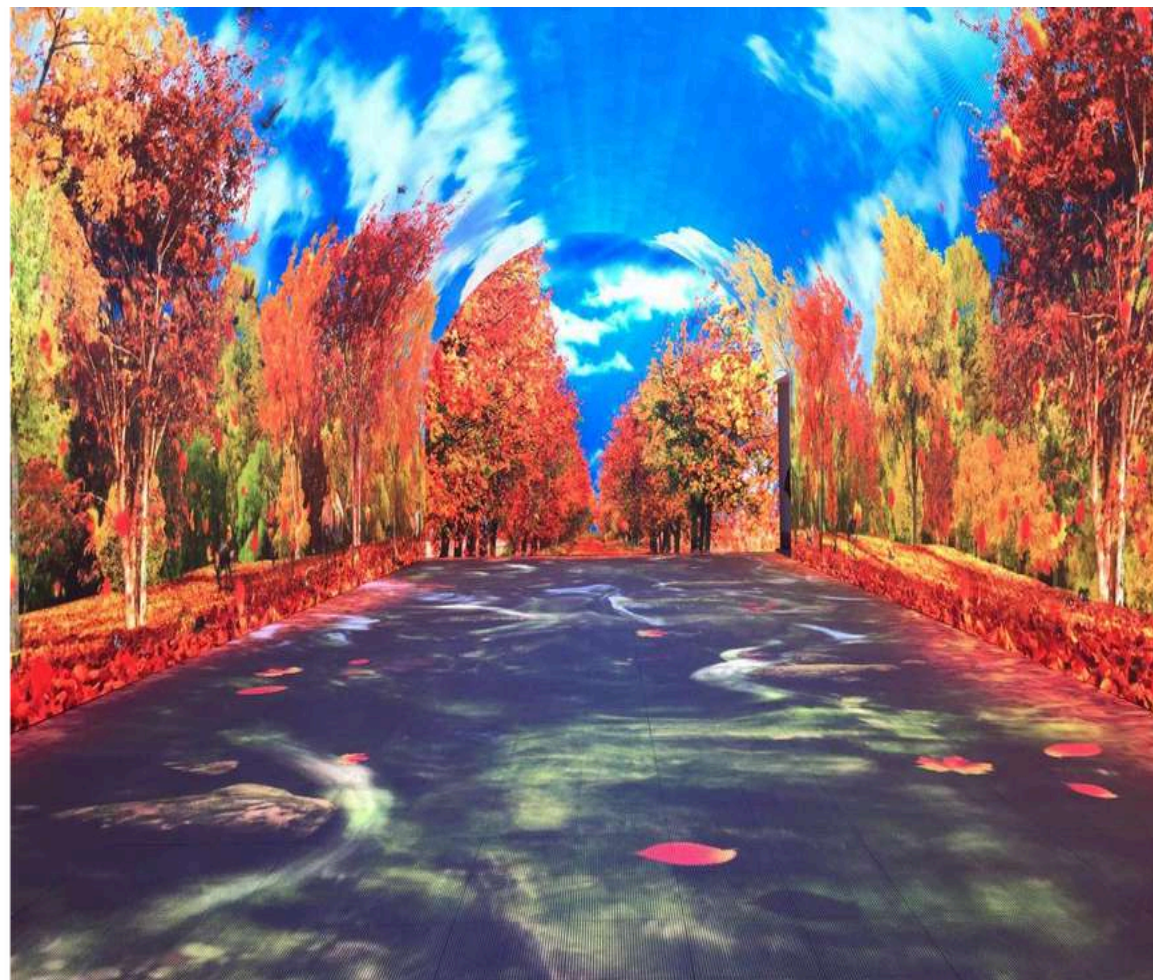
2017-Zhejiang-P6.25-110m²

Cases



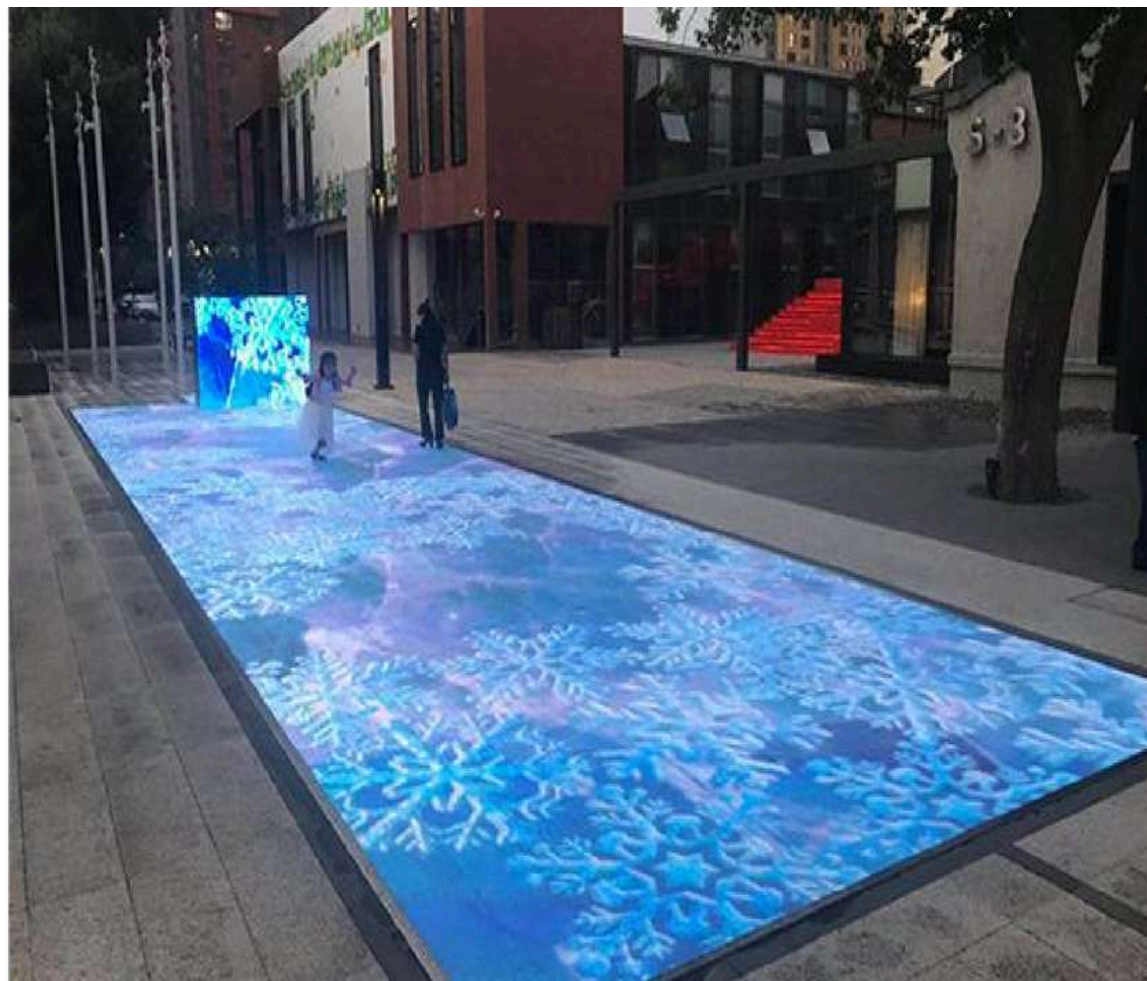
2017-Wuhan-P6.25-280m²

Cases



2017-Beijing-P6.25-100m²

Cases



2018-Vanke Square-P6.25-72m²

Cases



2018-Kunshan Mall-P6.25-104m²

Cases



2018-Beihai Mall-P6.25-96m²