

Bring Your ideas  
Into Reality

## Interactive LED Floor

### Floor LED Series (2.9/3.91/5.2/6.25)

- Module Size :250x250 mm
- Cabinet Size: 500\*1000 mm



# Floor LED Series

Milstrong's floor LED series are divided into conventional floor LED screen, interactive floor LED screen, indoor floor LED screen, outdoor floor LED screen and stair floor LED screen; To meet the different needs of floor tile screen in different scenarios.

The milestrong LED intelligent interactive floor LED screen is highly integrated by several sensor devices. Intelligent interaction can only be realized through the collection and information exchange of interactive software and computer software combined with LED control technology and interactive materials; Sensing technology is a combined relationship from point to unit, then to surface and then to chip. The whole interactive control system adopts hierarchical management and level by level information transmission to control and interact.



Intellisense

The intelligent LED screen that can realize the intelligent interaction between people and led screen is called intelligent floor LED screen. The necessary conditions for intelligent interactive led screen first need to have a display floor LED screen with intelligent sensing function, plus several key points such as interactive control technology and materials with interactive function.

The floor LED screen unit module sensor uses UDP to transmit coordinate information to the unit receiving card, the receiving card uses UDP to transmit information to the interactive level by level, and the interactive main control uses UDP to transmit information to the main control PC, so as to establish mutual communication and establish connection.



Signal Transmission



Interactive Material

Material here mainly refers to video material or game material; The material is the bottom scene for interaction after we shoot conventional affairs or make them in the form of animation and then make them through professional software.

# About Floor LED System

## Equipment Advantages

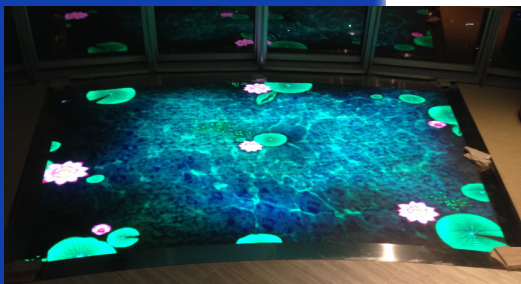
The interactive system of LED floor tile display does not need peripheral equipment (camera projection, radar, infrared information acquisition, etc.), is not limited by installation environment and space, and the screen is equipped with sensing device. The functions of interactive information collection and single video playback are completed through software settings without adding other hardware devices.

## Software Advantages

The interactive system supports multi-point simultaneous response mechanism. There is no need to conduct interactive calibration on site. It can be installed and used immediately to complete the interactive self start function of startup. The construction is fast and the software debugging is fast and simple. There is no copyright restriction of third-party software or other software, and broadcasting control is integrated.

## Functional Advantages

Floor LED display can switch between "interactive" and "conventional display" without peripheral equipment. The interactive response speed shall not be less than 0.01ms, and the sensitivity value shall be adjustable; Support multi-point simultaneous response, and there is no limit on the number of simultaneous interaction points in theory.



## LED Display Features

The use area of LED floor display screen is not affected by the interaction requirements, and the display area can be increased and reduced at will; The interactive effect of LED floor can be completed without the constraints of splicing shape, size and position. According to the principle of human body induction, the screen can present real-time picture effect according to human body activities (touch and trample).



# Floor LED Technical Principle

The multimedia interactive system consists of image motion capture device, data transceiver, data processor and LED floor screen.

The image motion capture device realizes the capture and collection of participants' images and motion data.

The LED floor tile screen displays the real-time interactive effect, and the response time is controlled at 0.01s.

The data processor is the core part to realize the real-time interaction between participants and various effects, analyze and process the collected participants' image and action data, and realize the synthetic processing with the inherent data in the processor.





# Floor LED Interactive System

## Part I

Signal motion capture, which is carried out according to the activity requirements. The capture equipment is led floor screen module with thermal sensor.

## Part II

The data transceiver acquisition system collects the signals taken by each LED floor screen module sensor and transmits them to the data processor.

## Part III

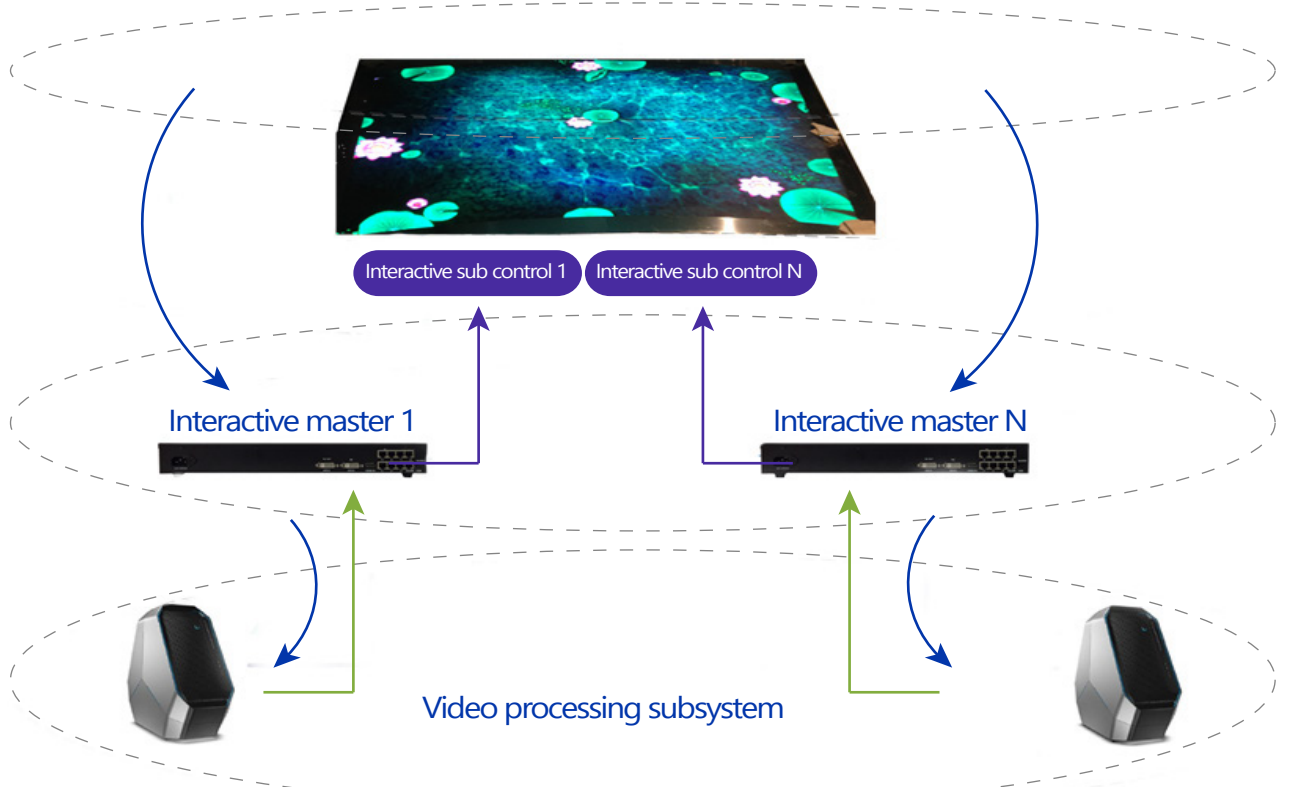
The data extractor analyzes and processes the transmitted signal, and the generated data is connected with the virtual scene.

## Part IV

LED floor screen display part. After the virtual data is connected with the virtual scene data, the processor transmits the data back to the LED screen, and the LED screen can realize the virtual scene screen.

## Part V

Auxiliary equipment. Such as transmission line, installation components, audio, computer and power connection system.



## Interactive System Diagram

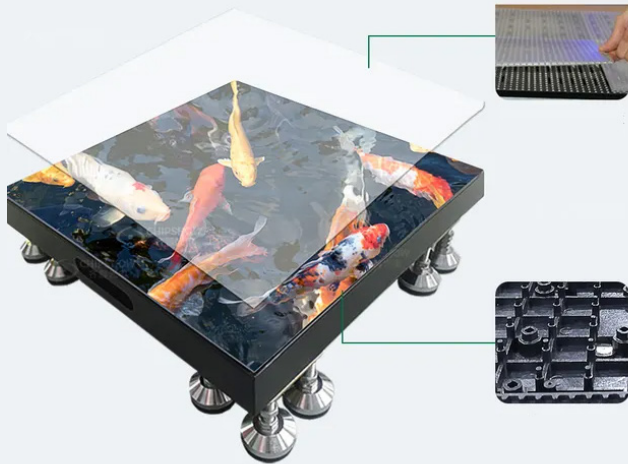
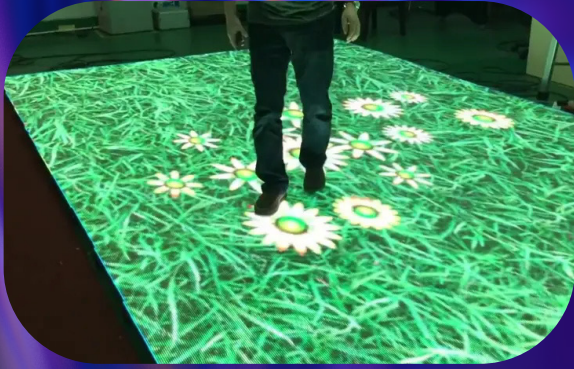
- Source video signal
- LED display data
- Sensing information data



# Virtual landscaping

## Excellent simulacrum effect

High-definition digital ground display, 160° wide viewing angle, virtual aesthetic landscaping, multi-touch, multi-person interaction.



## waterproof and Non-slip

### waterproof and Non-slip

Made of raw materials with low moisture absorption coefficient after repeated sealing treatment, it has good waterproof and moisture-proof function.



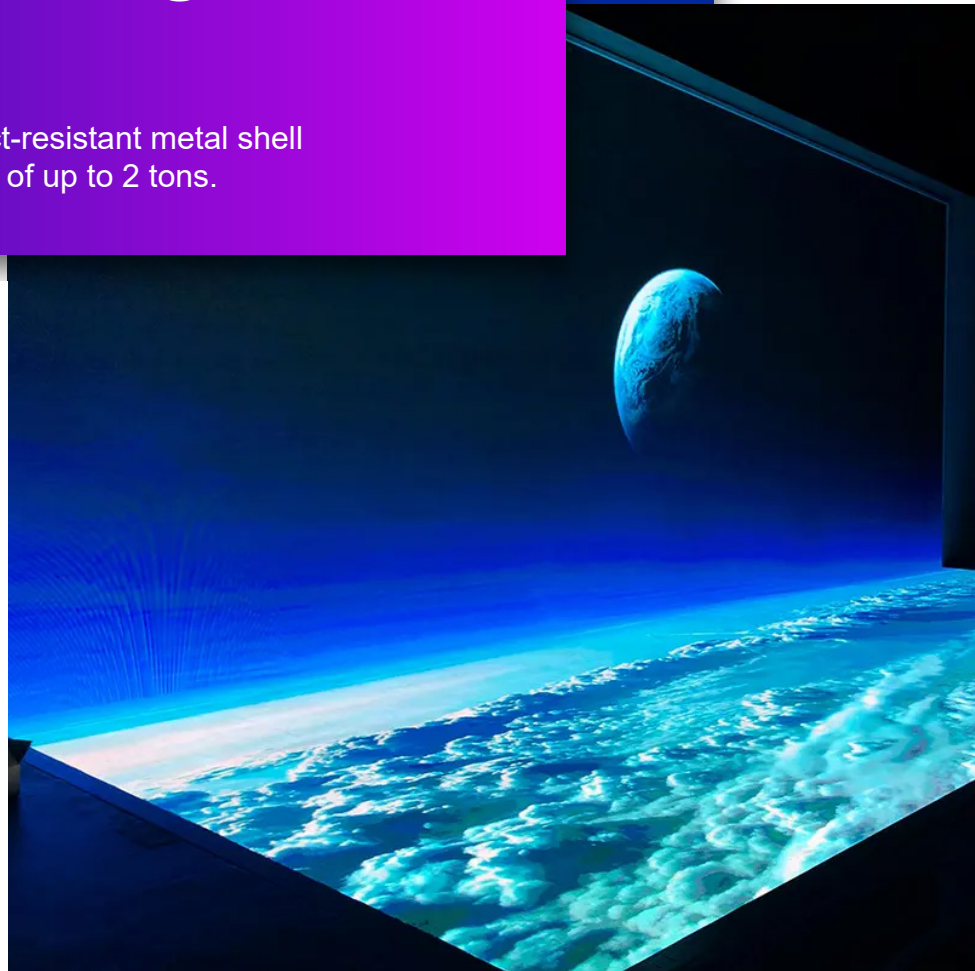




# Super load-bearing

**Safe and secure**

High-strength PC masks and impact-resistant metal shell design, with a load-bearing capacity of up to 2 tons.



# Floor LED Features



Intelligent sensing design without adding any equipment.

Silent heat dissipation structure design.

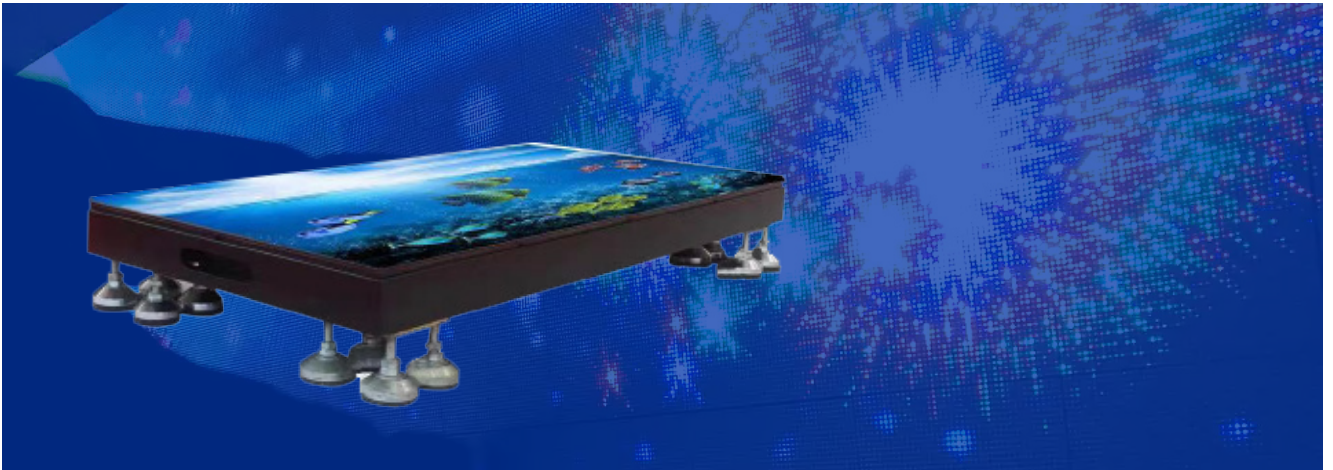
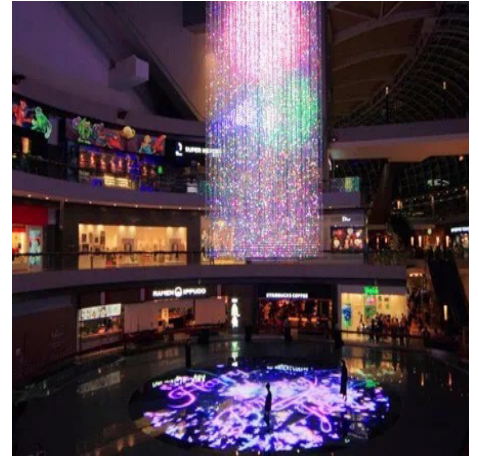
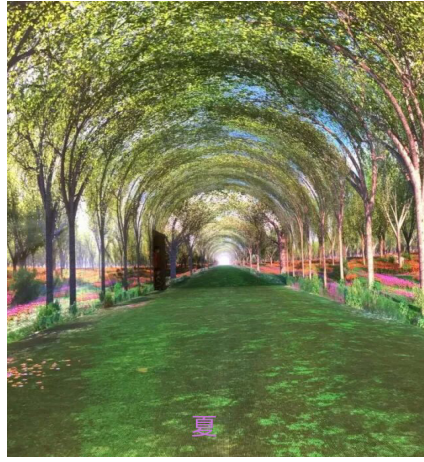
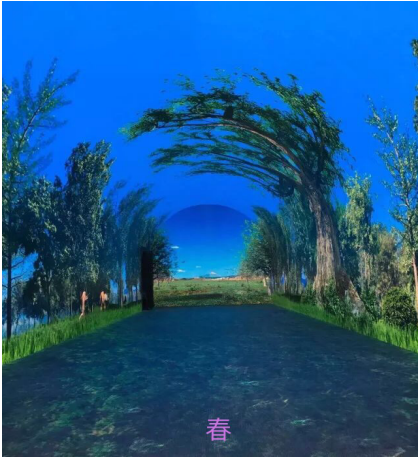
Ultra high strength wear-resistant and anti-skid design.

Humanized design of front maintenance.

# Applications







## Specifications

Pixel Pitch	P 2.976	P 3.91	P 5.2	P 6.25
LED Configuration	1R1G1B	1R1G1B	1R1G1B	1R1G1B
LED Type	SMD1415	SMD1921	SMD1921	SMD1921
Module Resolution	84x84	64x64	48x48	40x40
Module Size (mm)	250x250	250x250	250x250	250x250
Cabinet Size (mm)	500x1000	500x1000	500x1000	500x1000
Cabinet Weight (kg)	25	25	25	25
Working Temperature (°C)	-20~60	-20~60	-20~60	-20~60
Waterproof Rating	Both front & rear are IP65			
Protection Technology	Moisture proof, dust-proof, anti-corrosion, anti-static and lightning protection. It also has the functions of overcurrent, short circuit, overvoltage and undervoltage protection			
Certification	RoHS/FCC/CE			