Wuhan Keling System Integration Technology Co., Ltd.

Transparent OLED screen

product description

about Us

company profile

Wuhan Keling Co., Ltd. is an electronic technology company integrating design, R&D, production and sales. The company's main products include OLED transparent screen series, 3D holographic cabin, LCD transparent display cabinet series and other advertising information exhibition equipment and office equipment electronic products. Since its establishment, the company has been committed to technological innovation and pragmatic progress. Mutual benefit is its business purpose. After years of dedicated management, we have combined advanced management concepts with a strict quality control system to provide customers with the most satisfactory high-quality products and a complete after-sales service system. The company has always adhered to the policy of "always providing high-quality products and services that customers expect", and takes "integrity, dedication, innovation, and development" as its business philosophy. We win users with sincerity, do everything with dedication and responsibility, and repay the society with a high sense of responsibility. Let users enjoy the safety of products, high quality and low price, and perfect after-sales service is our goal. Product package

Including: OLED transparent screen machine, OLED transparent splicing screen, 3D holographic cabin, OLED double-sided screen, LCD transparent screen machine, LCD transparent splicing screen, intelligent interactive system, etc.

Provide industry application solutions and customized services.

(Product principle)

Product Principle

OLED (Organic Light Emitting Diode) Display Technology and Transmission

The display method of traditional LCD is different; OLED is a pixel-auto

Illuminating technology, no backlight required. Using very thin organic materials

The material coating and glass substrate, when an electric current passes through these

Since each pixel can be turned on independently

and off, so an amazing black display effect can be achieved.

By enhancing the detail of each pixel, the depth of color is enhanced.

The picture is colorful. And the OLED display screen is lighter and thinner.

The wider viewing angle can significantly save power.

Product Principle

The transparent OLED display uses a new OLED transparent display panel imported from South Korea and produced by LG, with a resolution of 1920*1080 and a transparency of 40%, the hardware configuration adopts the OLED dedicated driver integrated circuit system independently developed by Guangzhou Ruicai:

The biggest problem with OLED screens is burn-in and afterimage, so we have taken many protective measures in application:

1. There are two types of compensation for OLED screens. The first is JB compensation. The process is that the screen will be black, and then a white line will appear, scanning from top to bottom. After completion, the screen will automatically restart; the second is the normal afterimage compensation, the option in the menu is OLED compensation.

The screen is black and the user cannot see the picture. The process takes about 2-3 minutes and the system will automatically restart after the compensation is completed.

2. The compensations in the menu are all manual compensations, and users do not need to operate them because the software itself has automatic operations for these compensations. According to LG's suggestion, JB compensation is that the screen will automatically compensate once every 800 hours of operation;

3.OLED also has a self-protection mechanism. This protection measure represents the intelligent program. It does not require the user to operate. The program will automatically Operation;

4. After the screen has been powered on for 4/8 hours, the program will automatically power off and enter the repair mode (the indicator light will flash red and blue alternately) for two minutes.

The screen will automatically power on when the repair is complete.

Product Principle

Features of transparent OLED screen

1. It has the inherent characteristics of OLED, such as high contrast, wide color gamut, etc.;

2. Display content can be seen in both directions (mirror image);

3. Non-luminous pixels are highly transparent, which can realize virtual reality overlay display

4.

Screen thickness: 3mm

5. System: You can choose monitor version, Android version, computer version (choose one of the three)

6. Touch: infrared touch, capacitive touch (choose one), smart

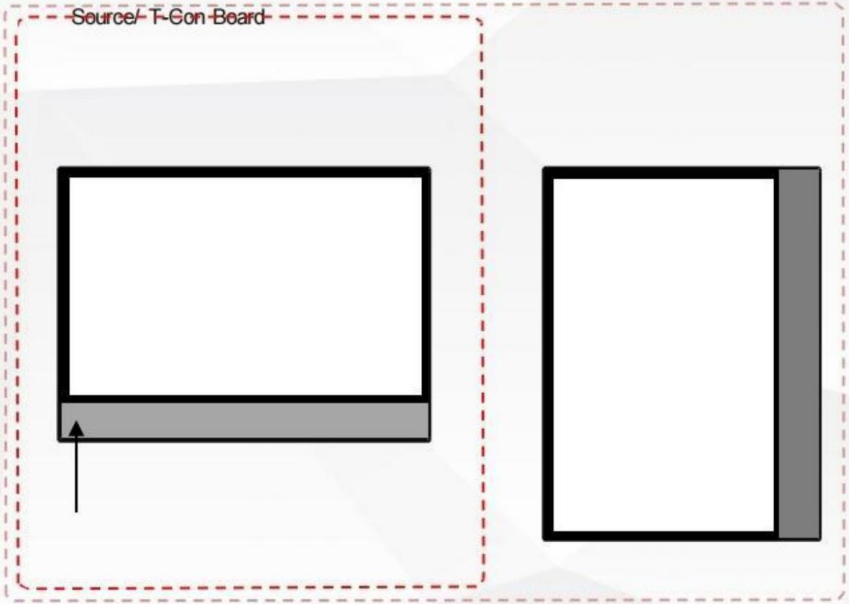
operate

Application range: widely used in exhibition display, building exterior glass, entertainment industry,

Medical and industrial products, party building exhibition halls, museums, science and technology museums and other fields

Product Concept

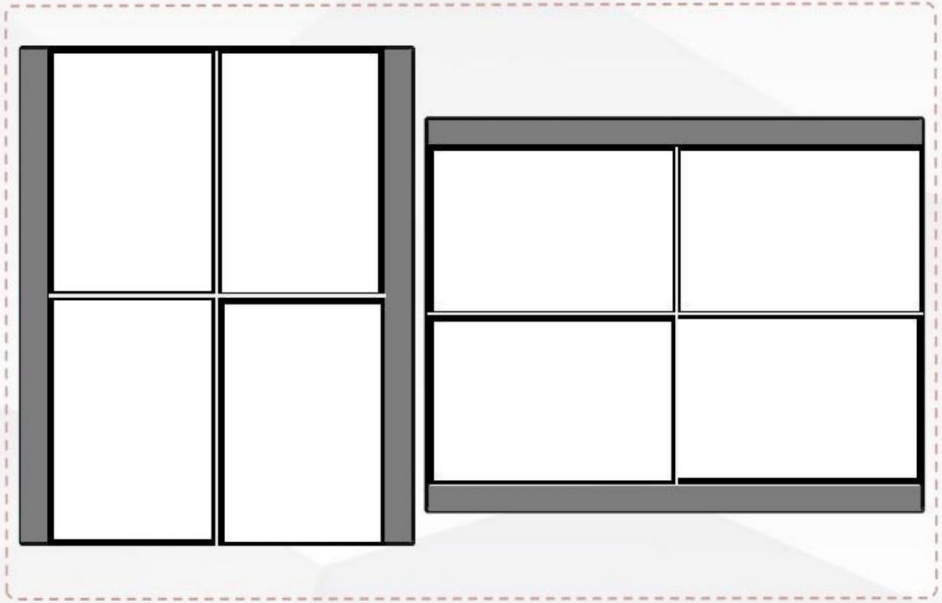
Single type



Horizontal

Vertical

Splicing type



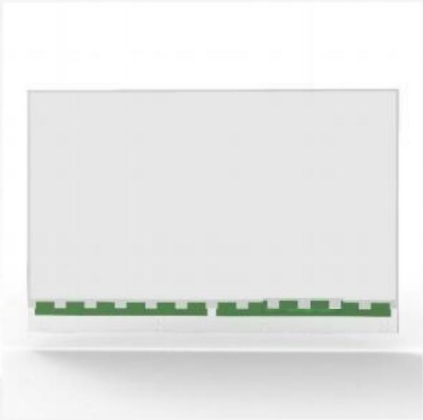
Vertical 2x2/2xn

Horizontal 2x212xn

Suspension type

Establishment type

Product Concept



Back side
(without protective cover)

High transparency solution -

clear enough to read fine details or text behind the display

-OLED reaches 40% transparency, while traditional LCD displays only have 10% transparency

ÿCan be spliced and

expanded - Self-luminous OLED technology provides a slim, stylish

design - Available in single/spliced

designs - Can be mounted vertically, horizontally, or

on the ceiling - Truly immersive screen that integrates with the space

· Transparent OLED creates the art of light -

through appropriate light effects, transparent OLED can produce ARNR effect

Results - Ambient light affects perceived transparency

Unparalleled image quality

-OLED technology provides accurate and stable colors -Accurate

color representation of input signals -Wider

viewing angles -Fast response time

Product Configuration

electricity

Allow

touch

touch

Ginseng

number

surface

project	parameter	project	parameter
Technical principle	Double-layer bridged projected capacitive technology, metal wire mesh matrix replacement Replace the ITO layer, special graphics replace traditional graphics.	Film thickness	ÿ100um
Product	MM55	Transmittance	More than 93%
SeriesTouch	ÿ10.55	Power supply	5V USB
PointsSize Range	inches	voltage Transmission method	USB2.0, USB3.0 ;I2C
Touch Deviation	ÿ2mm	Transmission distance	ÿ5m (with USB signal amplifier, etc.)
Number of sensors	2784	Safety distance 2mm (refers to the distance between the LCD screen and the film	
Reporting rate energy	80-120 points/ms	Ambient	-20ÿ to +70ÿ
consumption	0.5W-2W	temperature Ambient light	All-angle anti-glare
Drive type	No need to drive	Touch supports click, drag, zoom in, zoom out, rotate	
Arm Reject supports	Support	Sensing distance	ÿ8mm
customization	irregular size and irregular tail swing	calibration method	System comes with calibration
Program Type	AndriodÿÿLinuxÿÿWindows7/8/8.1(32-bit/64 ÿ	Program level	Standard HID-USB Device

Product Configuration

install

Zhuo

Tie

System

Ginseng

number

surface

CPU	Rockchip RK3288's most powerful quad-core 1.8GHz Cortex-A17 quad-core GPU Mail-T764	Mipi Camera	24pin FPC interface, supports 1300w Camera (optional
Memory 2G Built-		The default serial port is 3 TTL serial port sockets (can be changed to RS232 or 485)	
in storage 8G/16G		GPS External GPS (optional)	
Memory expansion supports up to 64GB TF card expansion		WIFI, BT: built-in WIFI, BT4.0	
Built-in ROM 2KB EEPROM		3G built-in WCDMA, EVDO, 4G full network access, support voice calls	
The maximum decoding resolution supported is 3840*2160		1 Ethernet, 10M/100M/1000M adaptive Ethernet	
Operating system Android 6.0.1		TF card support TF card	
The playback mode supports multiple playback modes such as loop, timing, and insert.		LVDS output 1 single/dual channel, can directly drive 50/60Hz LCD screen	
Network supports 3G, Ethernet, WiFi, Bluetooth 4.0, and wireless peripheral expansion		EDP output can directly drive EDP interface LCD screens with various resolutions	
Video playback	Support AVI (H.264, DIVX, DIVX, XVID), rm, rmvb, MKV (H.264, DIVX, DIVX, XVID), WMV, MOV, MP4 (.H.264, MPEG, DIVX, XVID), DAT (VCD format), VOB (DVD format), PMP, MPEG, .MPG,, FLV (H.263, H.264) ASF, TS, TP, 3GP, MPG and more than 30 formats	1 HDMI output , supports 1080P@120Hz, 4kx2k@60Hz output	
Image Format	Supports JPG, BMP, PNG, GIF and other image formats and supports rotation/slideshow Slide show playback, supports up to 4096*4096 resolution	HDMI in HDMI input, 30pin FPC custom interface (optional)	
USB2.0 interface 2 USB HOST, 4 USB sockets		Audio and video output supports left and right channel output, built-in dual 8R/5W amplifier	

Computer system parameter table

Among them, the configuration can be selected as display version, Android version or computer version

Display version: HDAMI interface, users can connect to a computer Android version: mainly used to play videos and pictures Touch Android version: touch interaction, free editing touch interaction software PC version: WIN7 WIN10 system

CPU	Integrated Intel@CoreM i5-4200M Processor, PGA 946, dual-core four-thread, 2.50 GHz main frequency, maximum turbo frequency 3.1 GHz, 3 MB SmartCache cache, TDP 37W processor
Chipset	Adopt Intel@HM87 chipset/Intel HM86 chipset (support USB3.0 function)
Graphic Interface	Supports independent graphics card, Intel HD GRAPHICS (performance depends on independent graphics card and CPU) Supports 4K ultra-high-definition video playback
Memory	1xDDR3 SO 204-DIMM slot (memory supports 1.35V) Support DDR3L-1333/1600, memory up to 32GB
Storage function	2×SATA 2.0 2×MINI PCI-E interfaces, one of which supports M-SATA solid state drive interface
Internet function	Onboard Realtek RTL8111E Gigabit LAN chip
Audio Features	Onboard Realtek ALC662 supports 5.1 channels, HD Audio, and audio input and output
Backplane 1/O	1×DC_IN power interface 1×HDMI interface 1×VGA interface 2×Dual-layer USB3.0 ports 1×LAN_RJ port 1×Mic(input) 1×PHONE(output)
Onboard I/O	1×DC power supply 4Pin interface 1×front panel pin 1×HDMI pin 1×VGA_H pin 1×LVDS interface 1×LVDS power supply interface 1×audio pin 2 × 7-pin SATA 2.0 1 × SATA power pin 2 × COM pin header 2×USB2.0 pins (can be connected to 4 external USB2.0 interfaces) 1×CPU fan power socket 1×system fan power socket 1×backlight power interface

03

(Product introduction)

30-inch product parameters

Screen	Display size 30 inches (16:9)
	Model LW300PXL
	Pixel arrangement RGB W rectangular
	Transparency 43%
	Surface treatmentHard coating (2H
	Display type OL ED screen, AM - OL ED
	Screen display size 664.29 (W) × 373.48 (H) mm
	External dimensions: 676.09(W)×387.48(H)mm
screen	Physical resolution 1366 (RWBG) × 768, WXGA, 52PPI
	Display color 1.07B, 100% sRGB
Ginseng	Frame rate 120HZ
number	Display brightness 600cd/m2 (Typ.)
surface	Contrast 135000:1
	Viewing angle 60/60/60/60 (Min.)(CRÿ10)
	(degrees) Aspect ratio 16:9
	Weight 1.04Kgs
	Light source life 30Khours
	Lamp type: Self-luminous
	Surface treatmentHard coating (2H)
	Capacitor can be added to touch screen
	Bendability: non-bendability
	Working temperature 0ÿ50°C; Storage temperature: -20ÿ65°C
	Voltage supply 12.0/24V (Typ.)(VDD/EVDD)
	Response time8 (Typ.)(G to G)ms

Products

Power on front screen

No power state

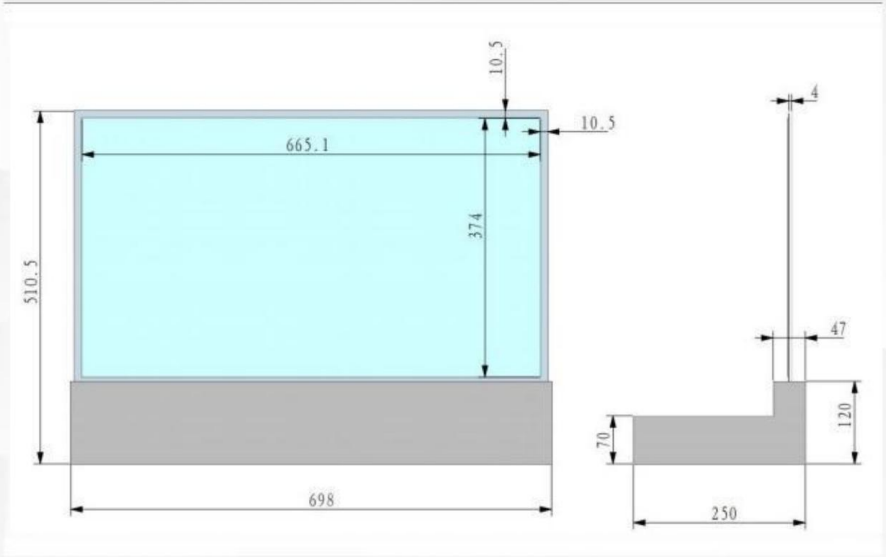
Products

30-inch desktop transparent OLED screen

Optional: Without touch / Capacitive touch

System: 1. Display version (HDMI), 2. Android system 3. Computer system

Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls



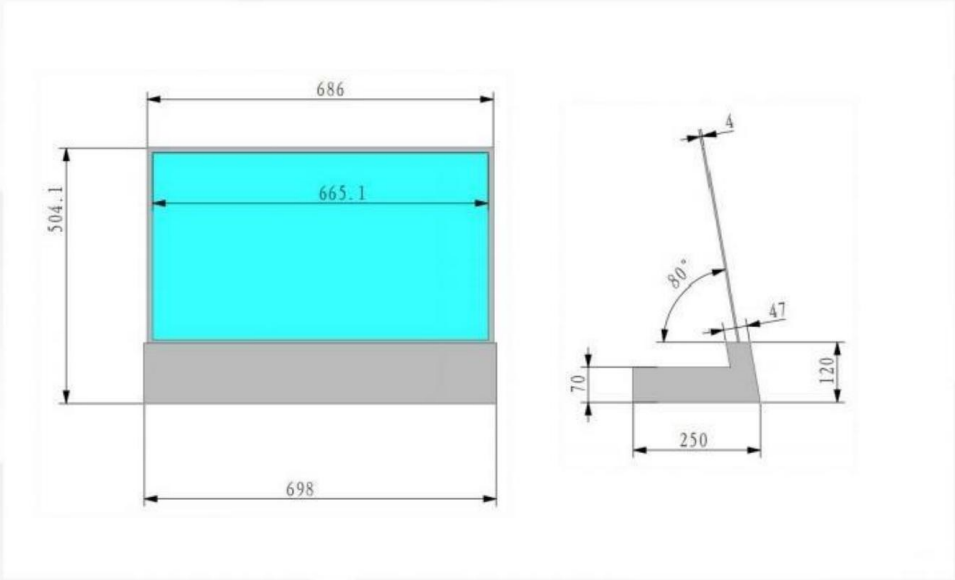
Products

30-inch desktop bevel transparent OLED screen

Optional: without touch / capacitive touch

System: 1. Display version (HDMI), 2. Android system 3. Computer system

Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls



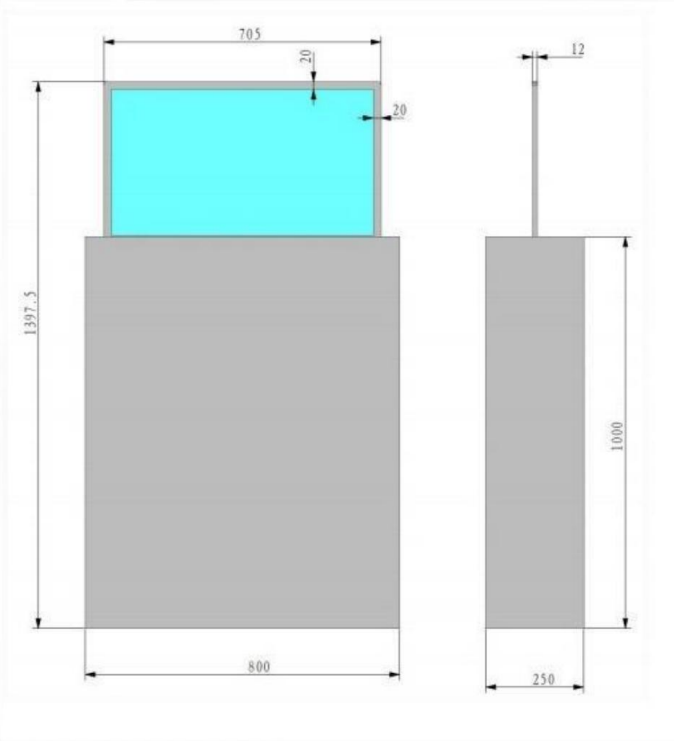
Products

30-inch liftable transparent OLED screen

Optional: Without touch / Capacitive touch

System: 1. Display version (HDMI), 2. Android system 3. Computer system

Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls



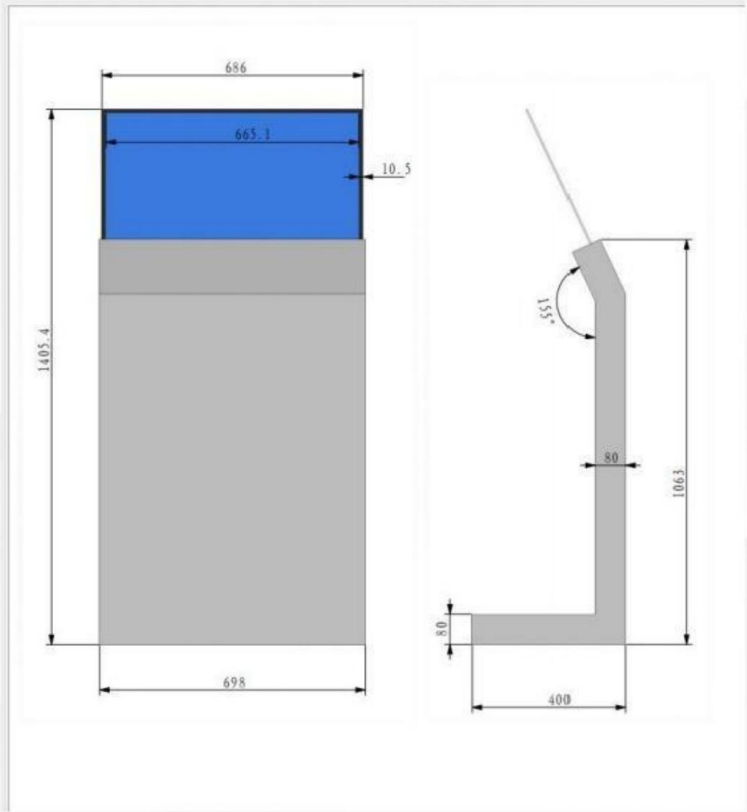
Products

30-inch bevel transparent OLED screen

Optional: Without touch / Capacitive touch

System: 1. Display version (HDMI), 2. Android system 3. Computer system

Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls



03

(Product introduction)

55-inch product parameters

Screen	Display size: 5.5 inches (16:9)
	Model LW550JUL
	Pixel arrangement RG BW rectangular
	Surface treatmentHard coating (2H
screen	40%
	Transparency supports color 1.07B, 100% sRGB
	Display type OLED screen, AM-OLED
	Screen display size 1209.6×680.4 (H×V)mm
	External dimensions: 1221.5×699.4(H×V×D)mm
Ginseng	Physical resolution 1920(H)×1080(V)
	Display color 1.07B, 100% sRGB
number	Frame 120HZ
surface	frequency Display brightness 400cd/m2 (Typ.)
	Contrast 150000:1
	Viewing angle 60/60/60/60 (Min.)(CRÿ10)
	(degrees) 16:9
	Aspect ratio Weight 3.14KG
	Light source life 30Khours
	Lamp type: Self-luminous
	Surface treatmentHard coating (2H)
	Touch screen can add capacitance/infrared touch
	Bendability: non-bendability
	Working temperature 0ÿ50°C; Storage temperature: -20ÿ65 ÿ
	Voltage supply 12.0/24V (Typ.) (VDD/EVDD)

Products

Power-on status

No power state

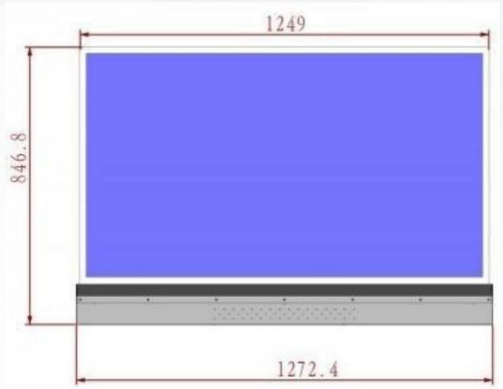
Products

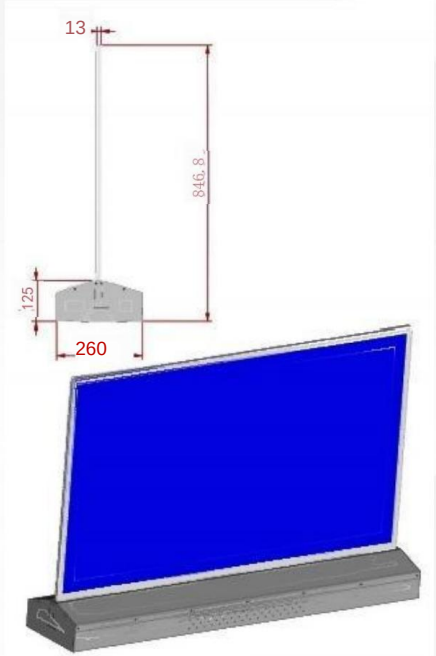
55-inch desktop transparent OLED screen

Optional: Without touch / Capacitive touch

System: 1. Display version (HDMI), 2. Android system 3. Computer system

Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls





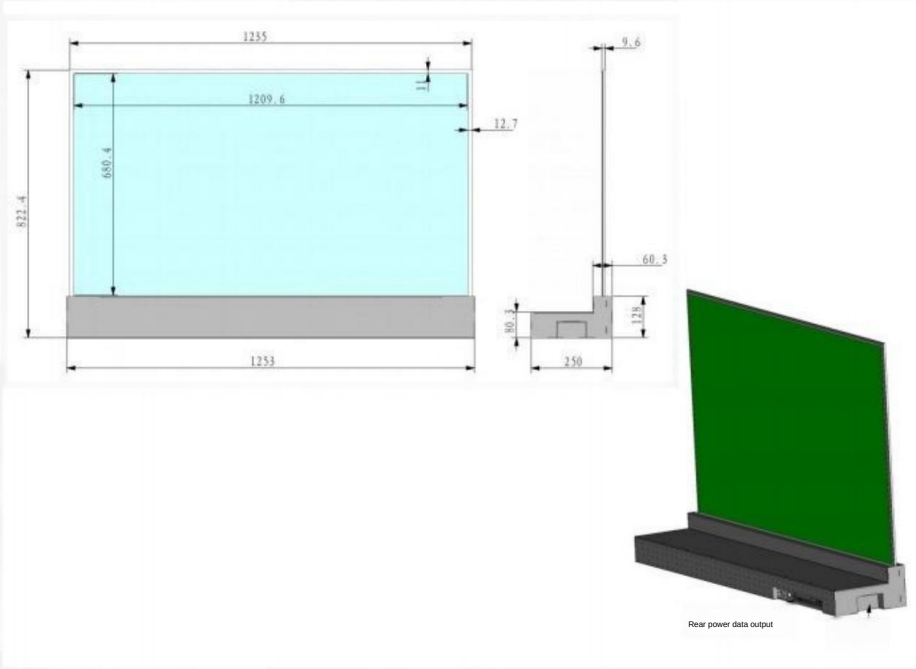
Products

55-inch desktop transparent OLED screen

Optional: Without touch / Capacitive touch

System: 1. Display version (HDMI), 2. Android system 3. Computer system

Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls



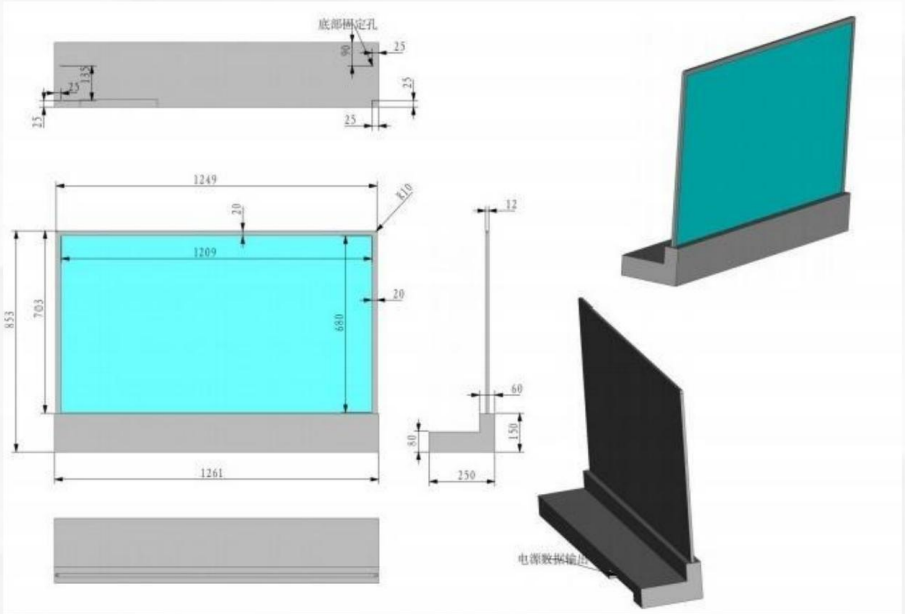
Products

55-inch desktop transparent OLED screen

Optional: Without touch / Capacitive touch

System: 1. Display version (HDMI), 2. Android system 3. Computer system

Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls



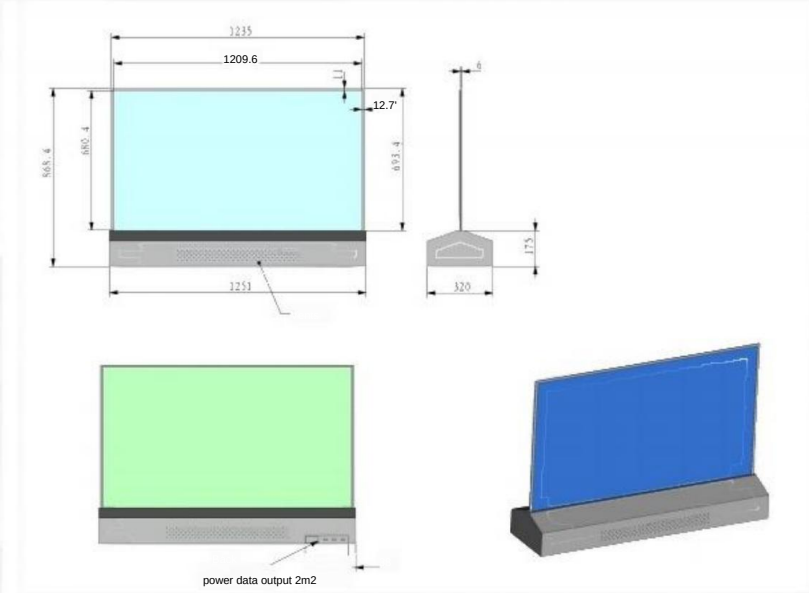
Products

55-inch desktop transparent OLED screen

Optional: Without touch / Capacitive touch

System: 1. Display version (HDMI), 2. Android system 3. Computer system

Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls



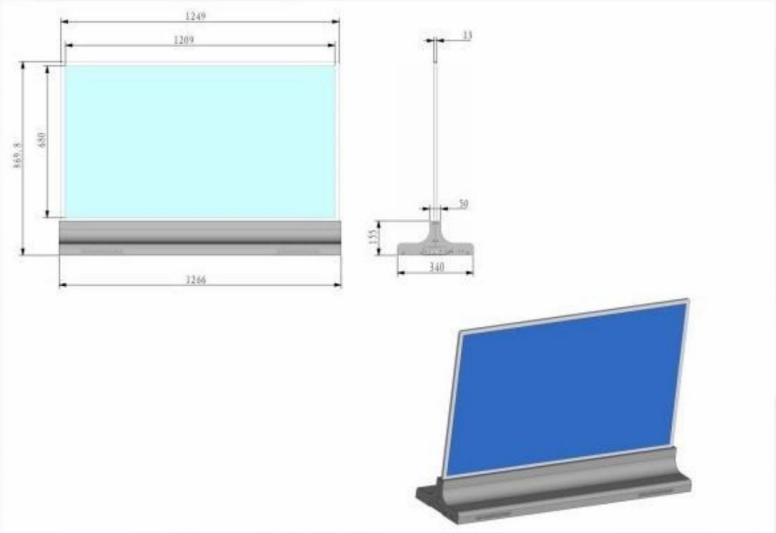
Products

55-inch desktop transparent OLED screen

Optional: Without touch / Capacitive touch

System: 1. Display version (HDMI), 2. Android system 3. Computer system

Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls



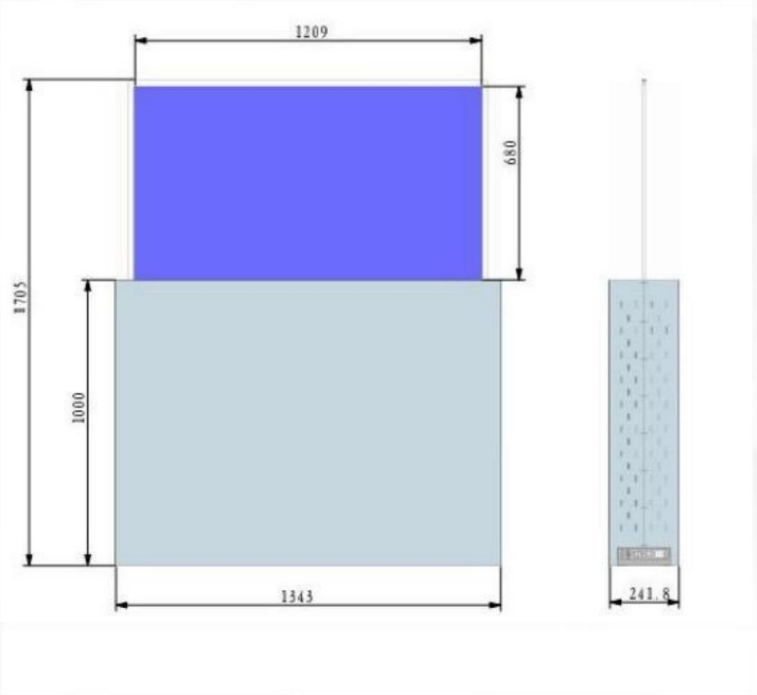
Products

55-inch liftable transparent OLED screen

Optional: Without touch / Capacitive touch

System: 1. Display version (HDMI), 2. Android system 3. Computer system

Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls

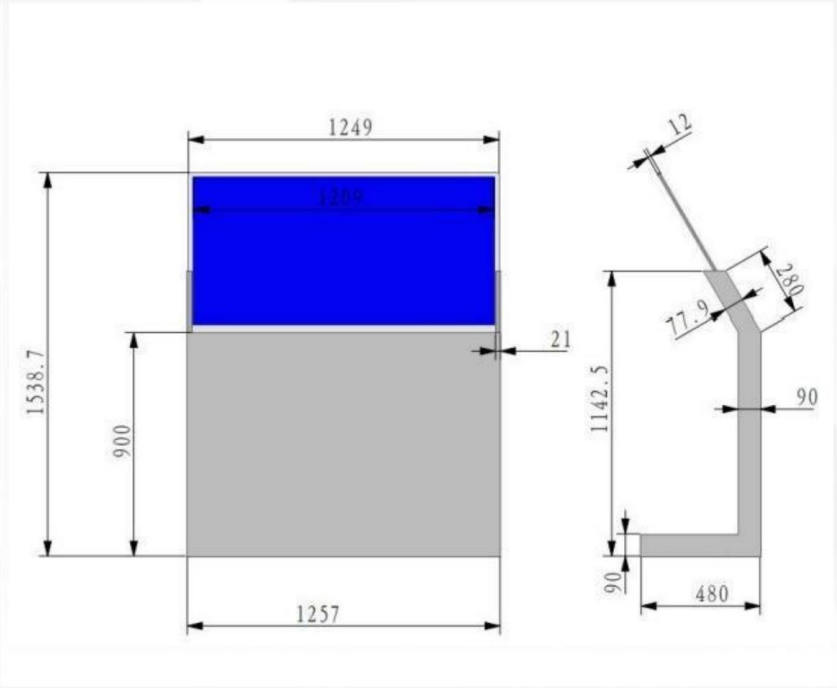


Products

55-inch bevel transparent OLED screen

Optional: without touch / capacitive touch System: 1. Display version (HDMI), 2. Android system 3. Computer system Application scenarios:

exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls

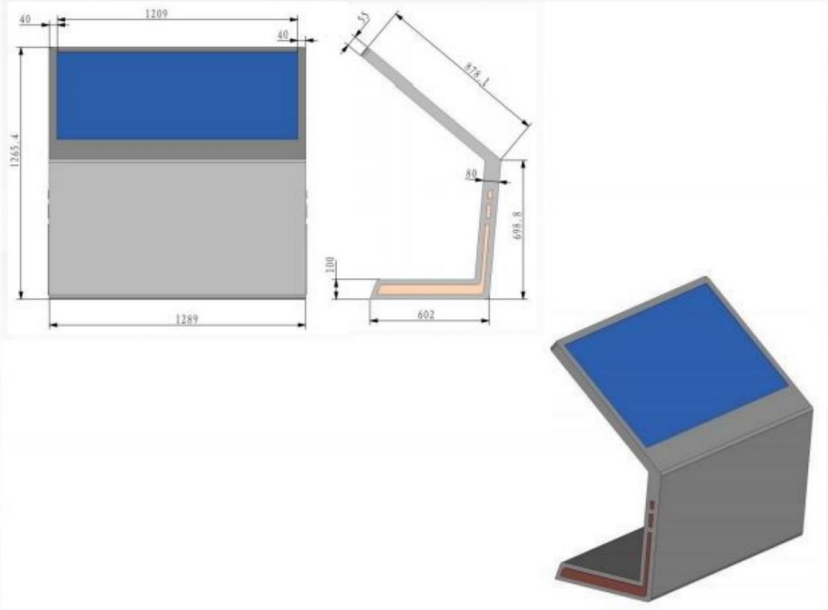


Products

55-inch beveled transparent OLED screen with border

Optional: without touch/capacitive touch system: 1. Display version (HDMI), 2. Android system 3. Computer system

Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls

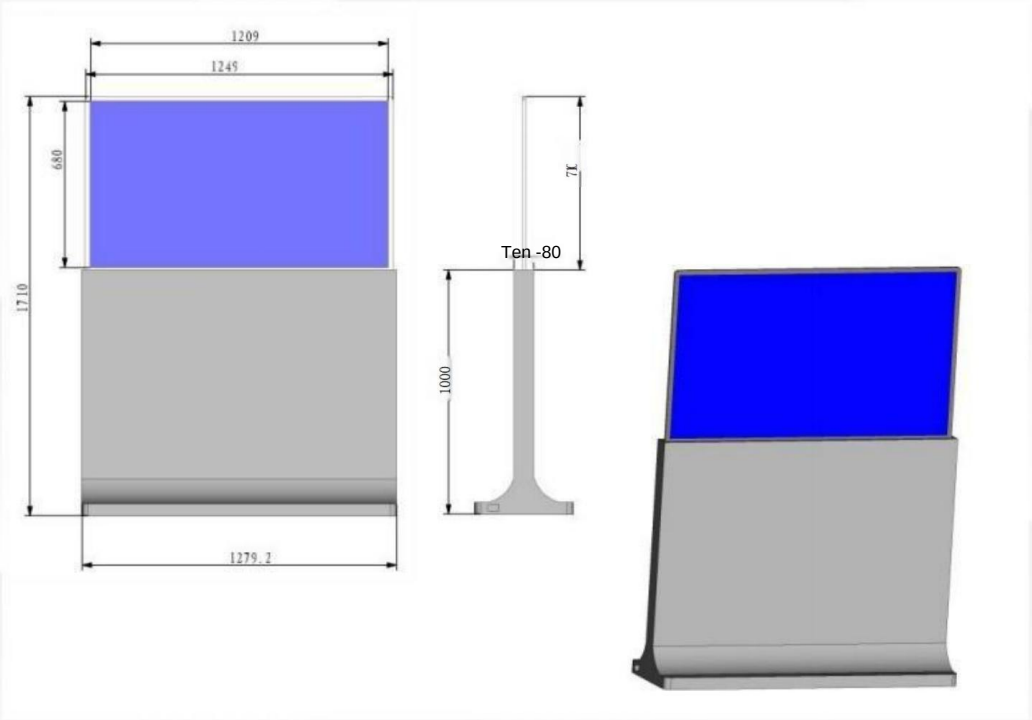


Products

55-inch floor-standing transparent OLED screen

Optional: without touch / capacitive touch system: 1. Display version (HDMI), 2. Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls

Android system 3. Computer system

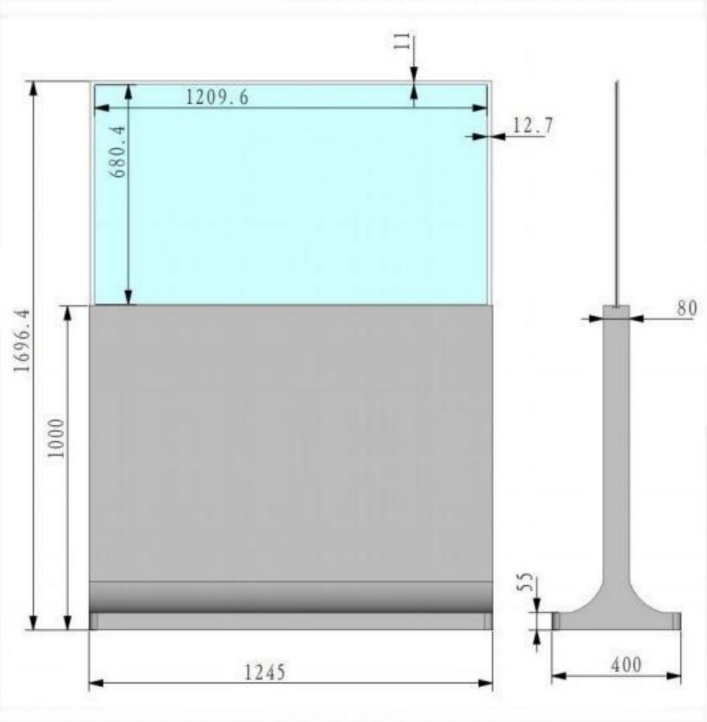


Products

55-inch floor-standing transparent OLED screen

Optional: without touch / capacitive touch system: 1. Display version (HDMI), 2. Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls

Android system 3. Computer system

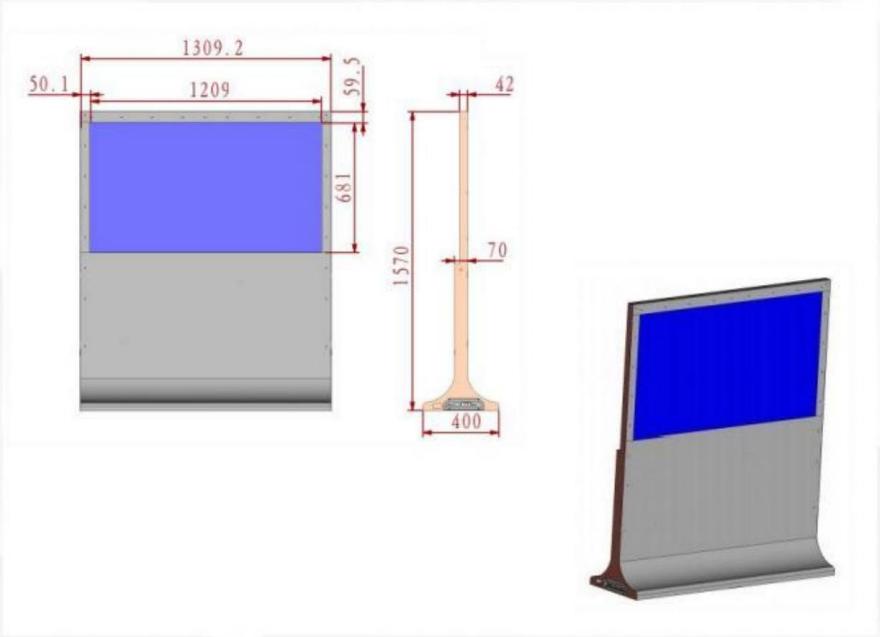


Products

55-inch floor-standing transparent OLED screen

Optional: without touch / capacitive touch System: 1. Display version (HDMI), 2. Android system 3. Computer system

Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls

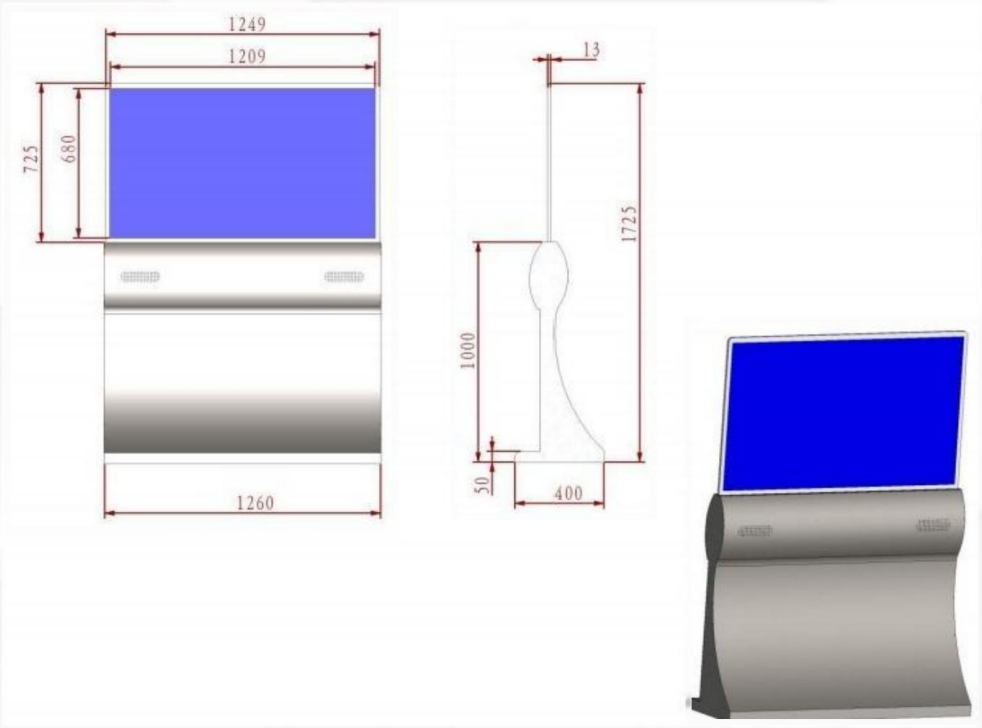


Products

55-inch floor-standing transparent OLED screen

Optional: without touch / capacitive touch system: 1. Display version (HDMI), 2. Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls

Android system 3. Computer system

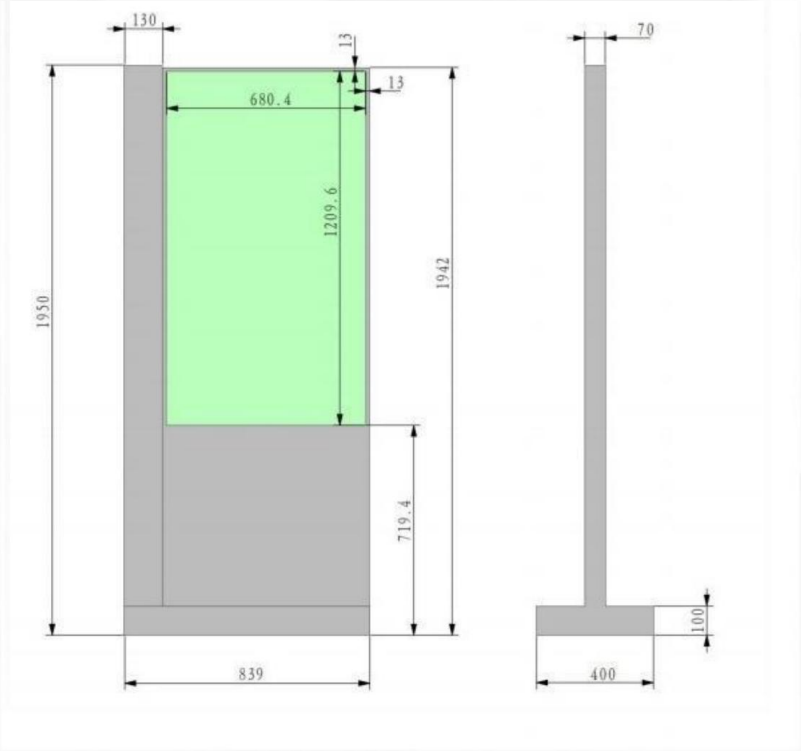


Products

55-inch vertical transparent OLED screen

Optional: without touch / capacitive touch system: 1. Display version (HDMI), 2. Application scenarios: Android system 3. Computer system

exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls

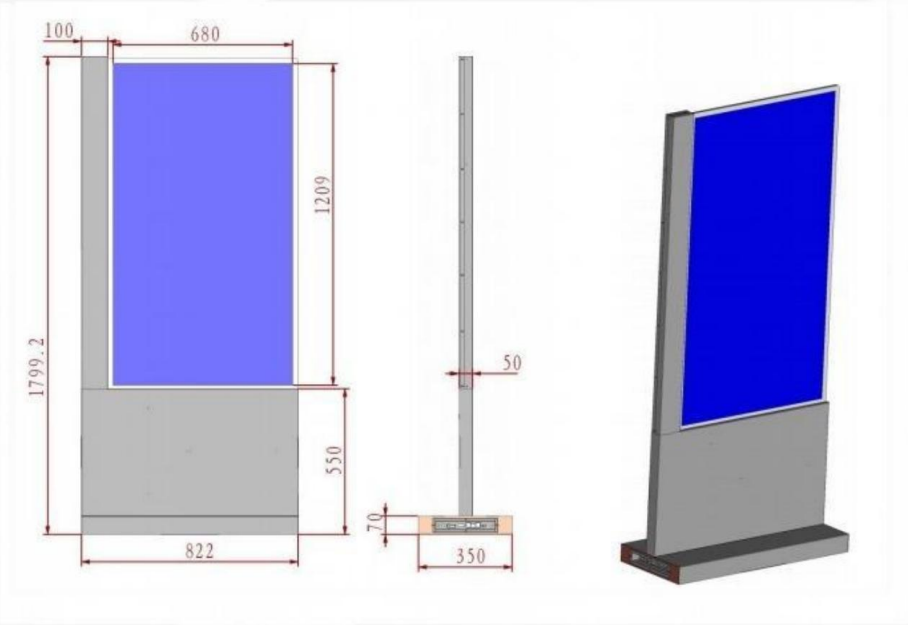


Products

55-inch vertical transparent OLED screen

Optional: without touch / capacitive touch system: 1. Display version (HDMI), 2. Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls

Android system 3. Computer system

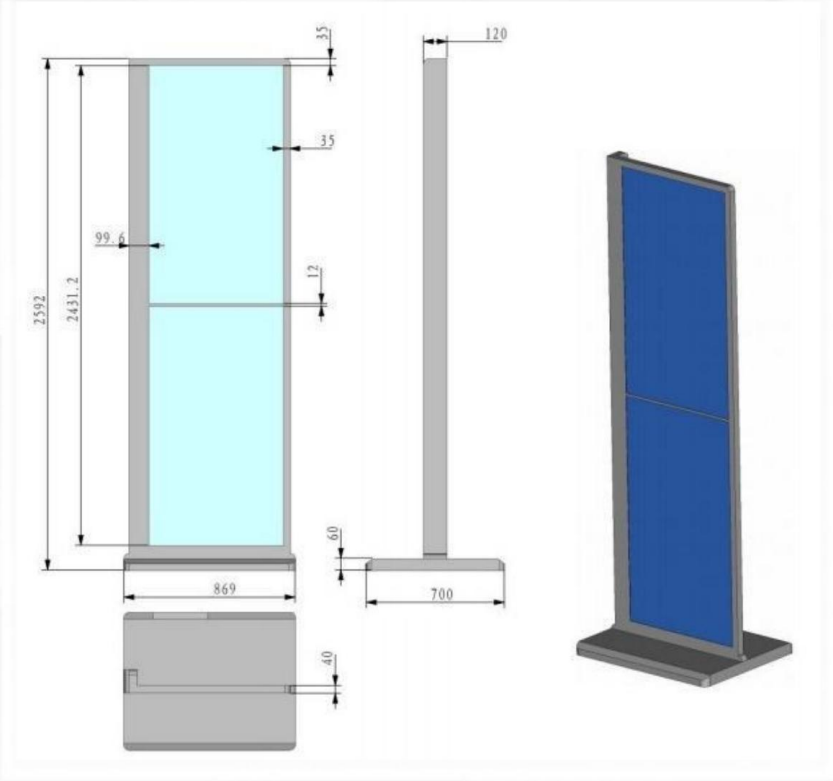


Products

55-inch vertical 1*2 transparent OLED splicing screen

Optional: without touch / capacitive touch system: 1. Display version (HDMI), 2. Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls

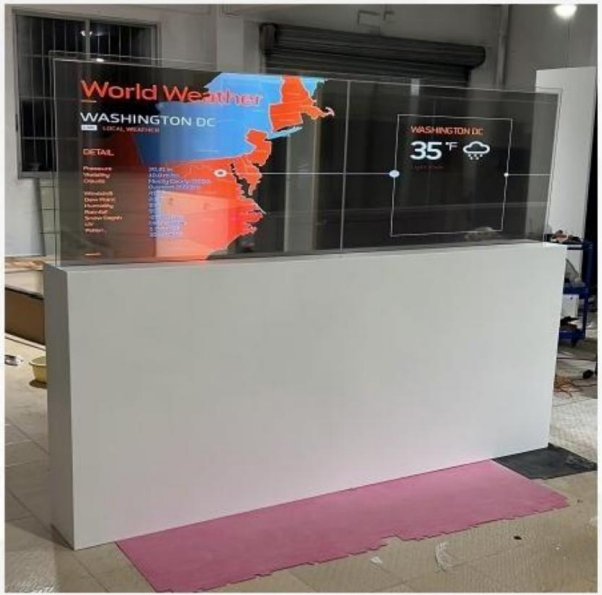
Android system 3. Computer system

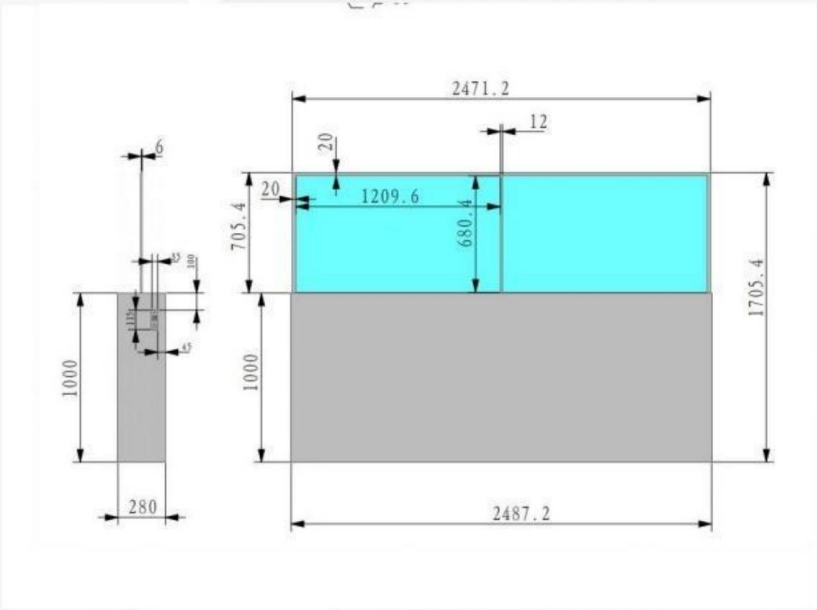


55-inch vertical 1*2 transparent OLED splicing

screen optional: without touch / infrared touch system: 1. Display version (HDMI), 2. Android system 3. Computer system

Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls



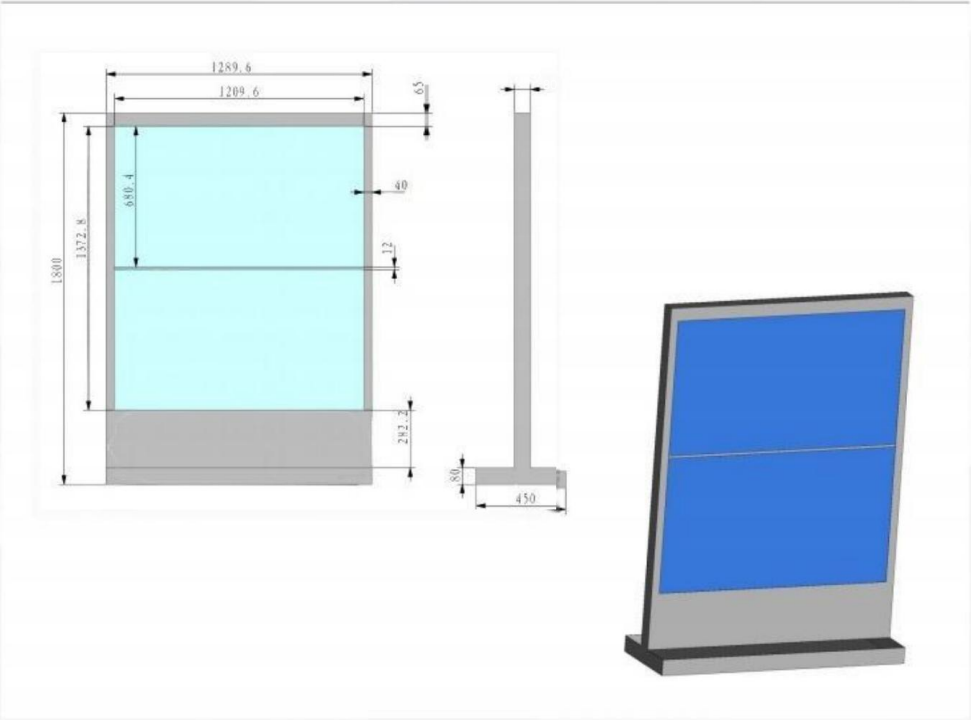


Products

55 inch vertical 1*2 transparent OLED splicing screen

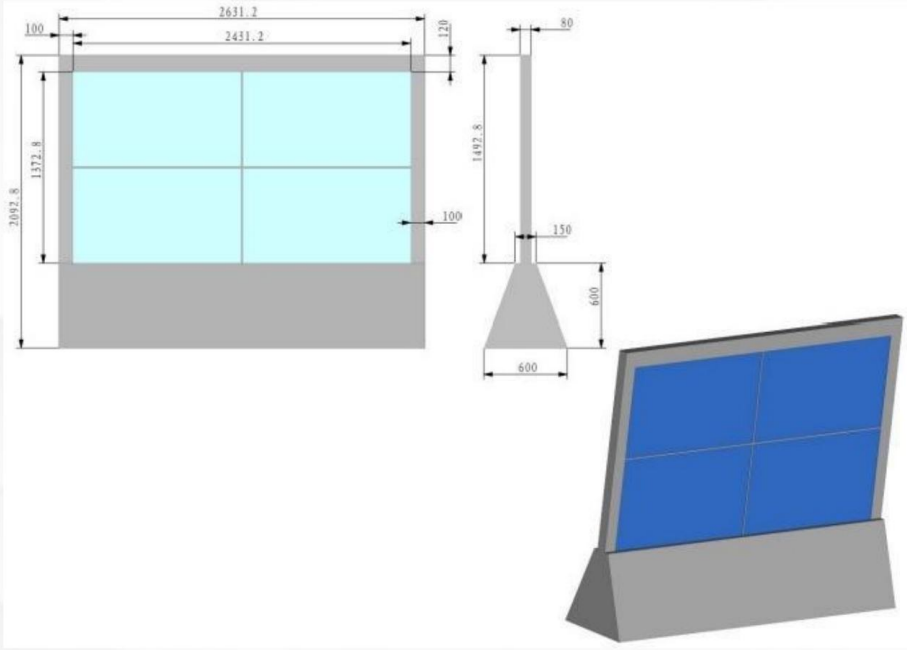
Optional: without touch / infrared touch system: 1. Display version (HDMI), 2. Application scenarios: exhibition halls, banks, museums, science and technology museums, sales offices, shopping malls

Android system 3. Computer system



Products

55 inch 2*2 transparent OLED splicing screen



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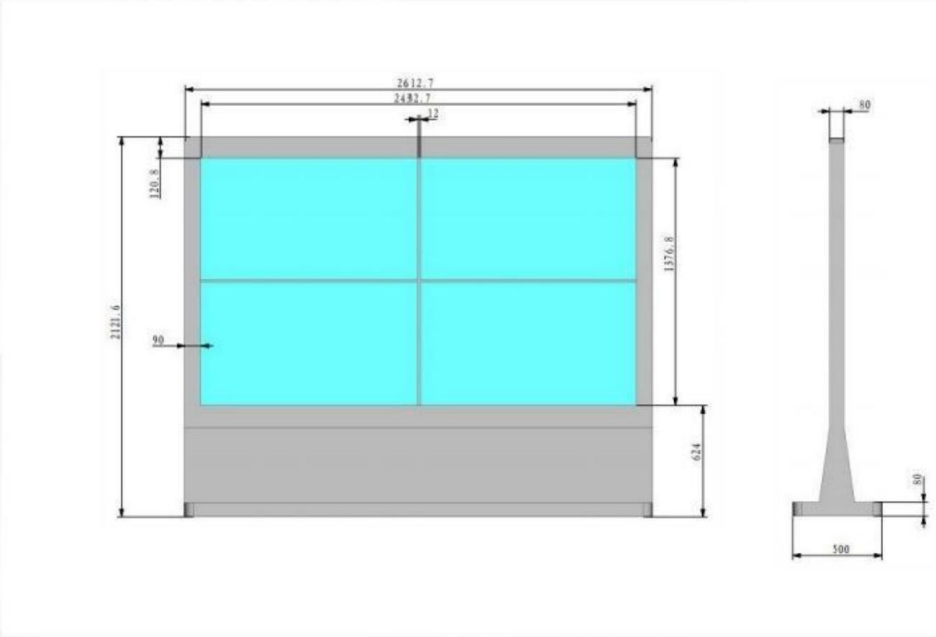


04

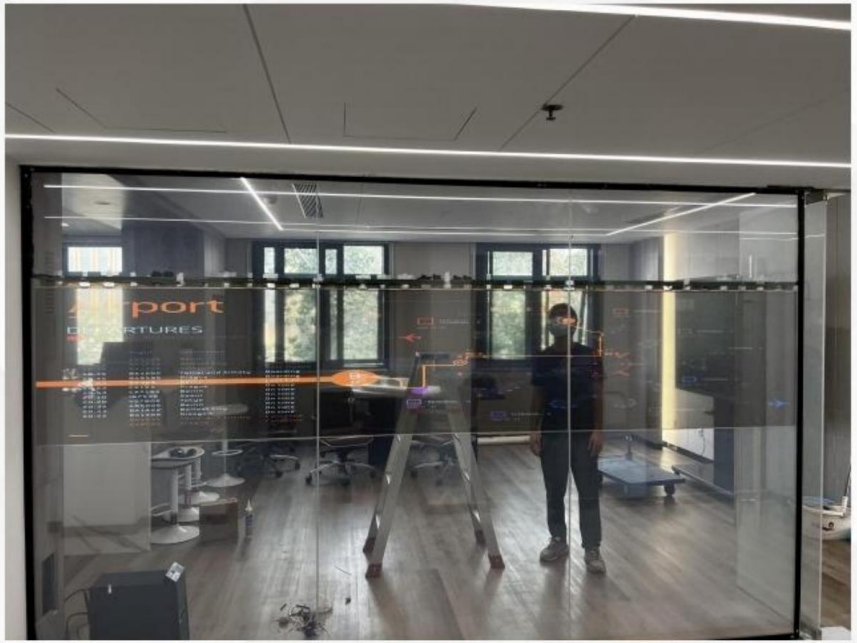
(Product demonstration)

Guangdong Foshan listed company exhibition hall-2*3 transparent OLED splicing screen

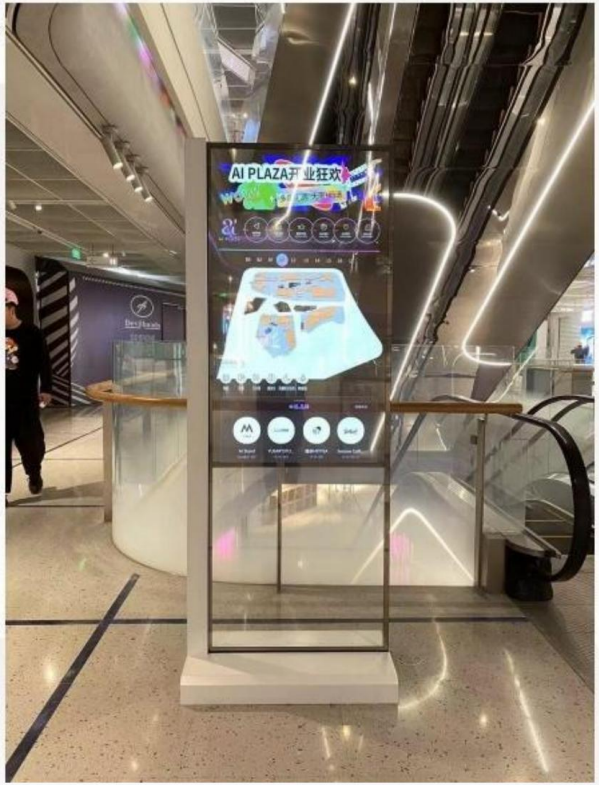
Beijing Airport Apartment-1*2 sliding door transparent OLED splicing screen

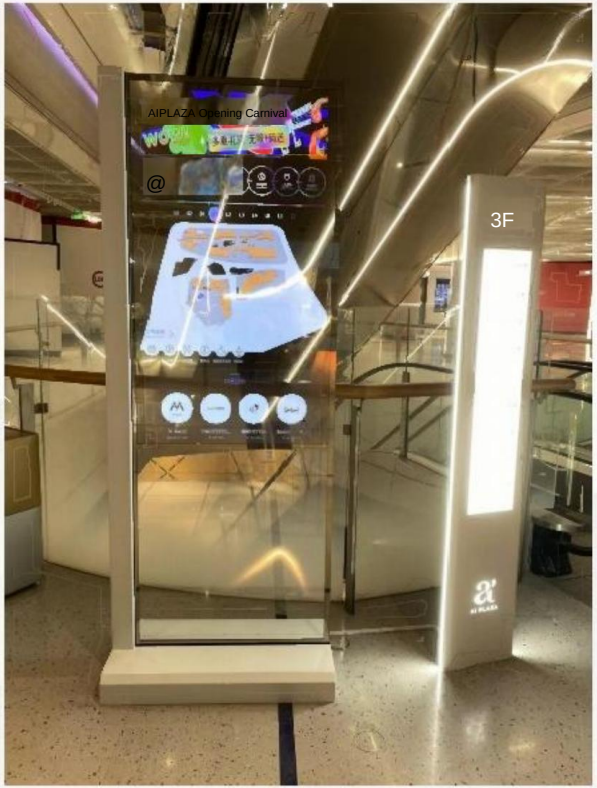
Jiangsu Wuxi 5G Laboratory-2*2 touch interactive transparent OLED splicing screen

China Science Popularization Research Institute-2 sets of 1*3 transparent OLED splicing screen



Shanghai Vanke Shopping Center - 5 transparent OLED screens





2020 Dongfeng Nissan Auto Show-Transparent OLED Screen

April 19, 2021 Shanghai Convention and Exhibition Center (SAIC MG) - Transparent OLED screen