

OUTDOOR

LCD Digital Signage



USER[®]

SPECIAL DISPLAYS
Creating Better Visions

Features:



All weather sunlight readable LCD
Brightness from 1500nits -2500nits
LCD will not turn black under direct sunlight



Intelligent fans cooling system,
Working high temperature up to 40°C



Intelligent heating system,
Working low temperature below to -20°C



Unique full-sealed enclosure for outdoor use,
Waterproof and dustproof meet IP55.

Product advantages

(1) High-brightness LED backlight (LCD screen), lumens can reach 1500/2000/3000nits, under sunlight environment is still,clear and visible.

(2) Unique LCD substrate wide temperature treatment can reach - 30 °C to 60 degrees Celsius, quick start and clear image display in low temperature environment.

(3) Unique military-scale heat-emission technology, with built in heat emission device and high quality fans. Multi air duct infrastructure and dust filter system.

(4) Unique military heat dissipation technology, built-in efficient heat dissipation device and high-quality fan set, multi-duct heat dissipation structure and dust filtering system.

(5) Intelligent light sensor, can be adjusted the screen brightness according to the surrounding environment automatically , so as to achieve the best visual effect, energy saving and reduce the aging degree.

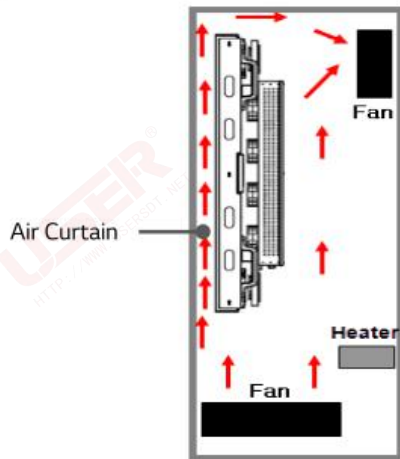
(6) True bright colors display , which can be up to 1920 x1080 resolution.

(7) Outdoor rainproof heat-resistant metal outercasing, and with waterproof and dustproof shell structure which can meet with the condition under outdoor storm environment.

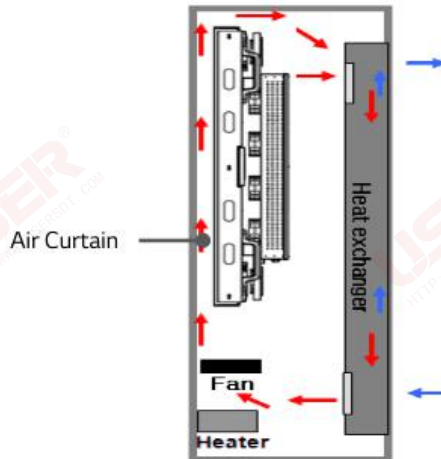
(8) Built-in stand-alone (network) player motherboard (optional), industrial control computer (optional), interactive multi-touch (optional).



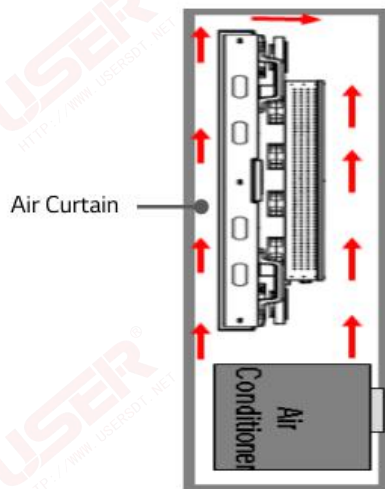
Example 1 : Enclosure (Just fans)



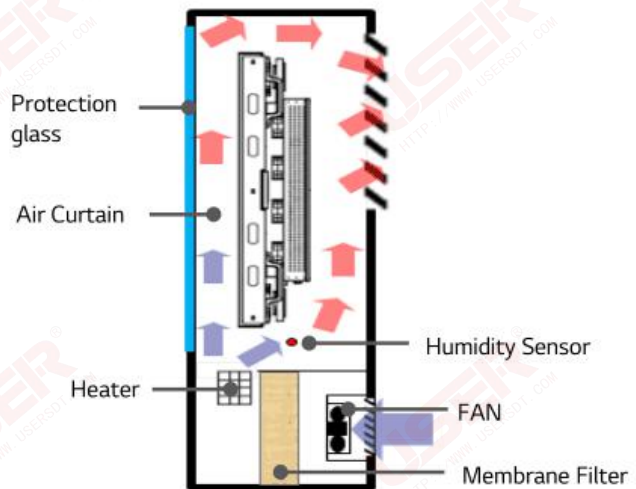
Example 2 : Enclosure (Heat exchanger)



Example 3 : Enclosure (Air conditioner)



Example 4 : Direct Air Cooling Solution



*Air curtain :
Air flow circulation system between
the front panel and the enclosure.

- Filter should be used for filtering out bugs, dust and water.
- For preventing from rust of lead frame in circuit board,
operates the Heater if relative humidity is high.

Fan cooling system



Features:

- Low initial input cost
- Low power consumption
- Full outdoor work, protection class IP55
- Visible in the sun, LCD screen brightness 1500-2500nits, built-in fan cooling, ambient temperature -30-+50 degrees normal work
- Anti-glare glass, AR anti-reflection, tempered glass



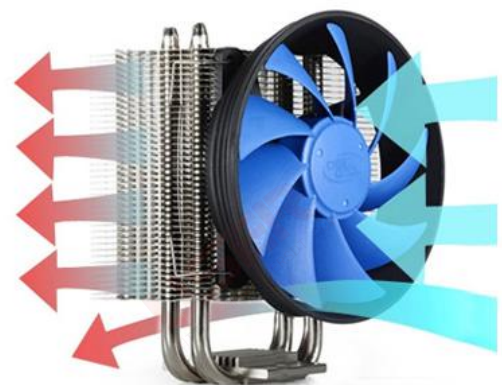
Fan cooling



Energy saving

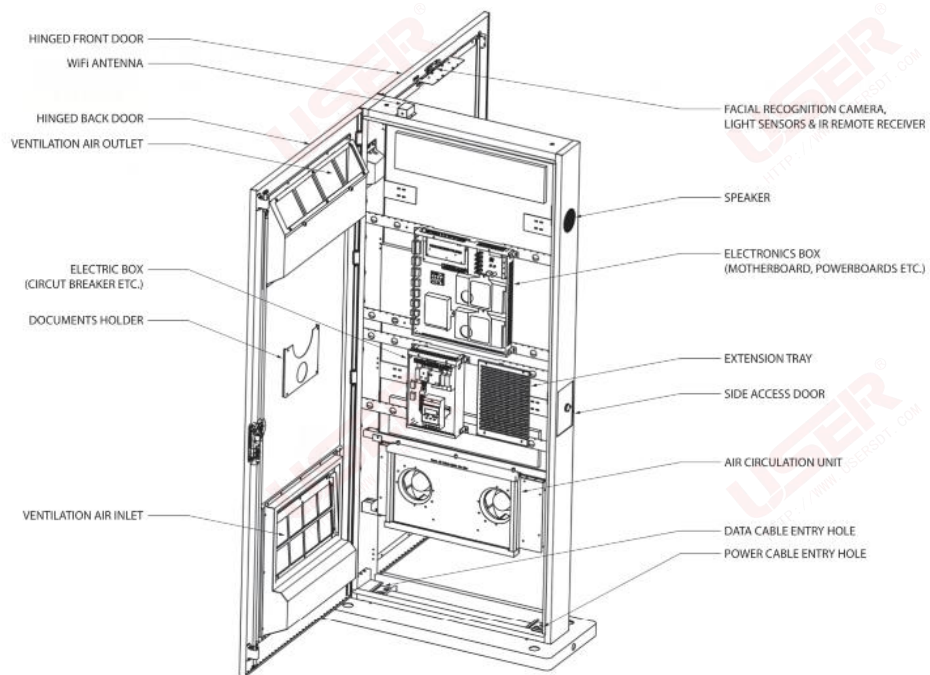
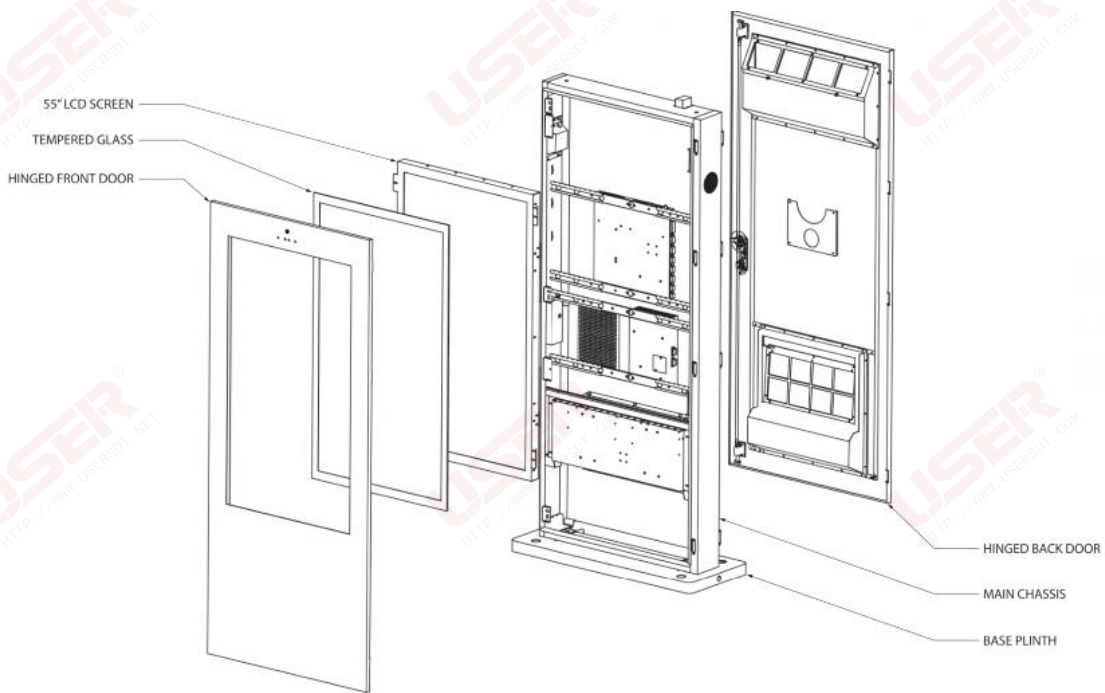


IP55



Fan cooling model:

The intelligent cold and warm exhaust air temperature control system adapts to the working environment of -20-50 degrees. The temperature control fan system automatically adjusts the temperature inside the box to reduce the abnormal phenomenon such as high temperature blackening and fogging before the screen.



Air-condition cooling system



Features:

- Suitable for use in harsh environments, internal thermostat
- Less maintenance in the later period and low service cost
- Full outdoor work, protection class IP65
- Visible in the sun, LCD screen brightness 1500-2500nits,
- Built-in air conditioning heat dissipation, ambient temperature -40-+50 degrees normaloperation
- Anti-glare glass, AR anti-reflection, tempered glass.



Air-condition cooling



Constant temperature and humidity



IP65

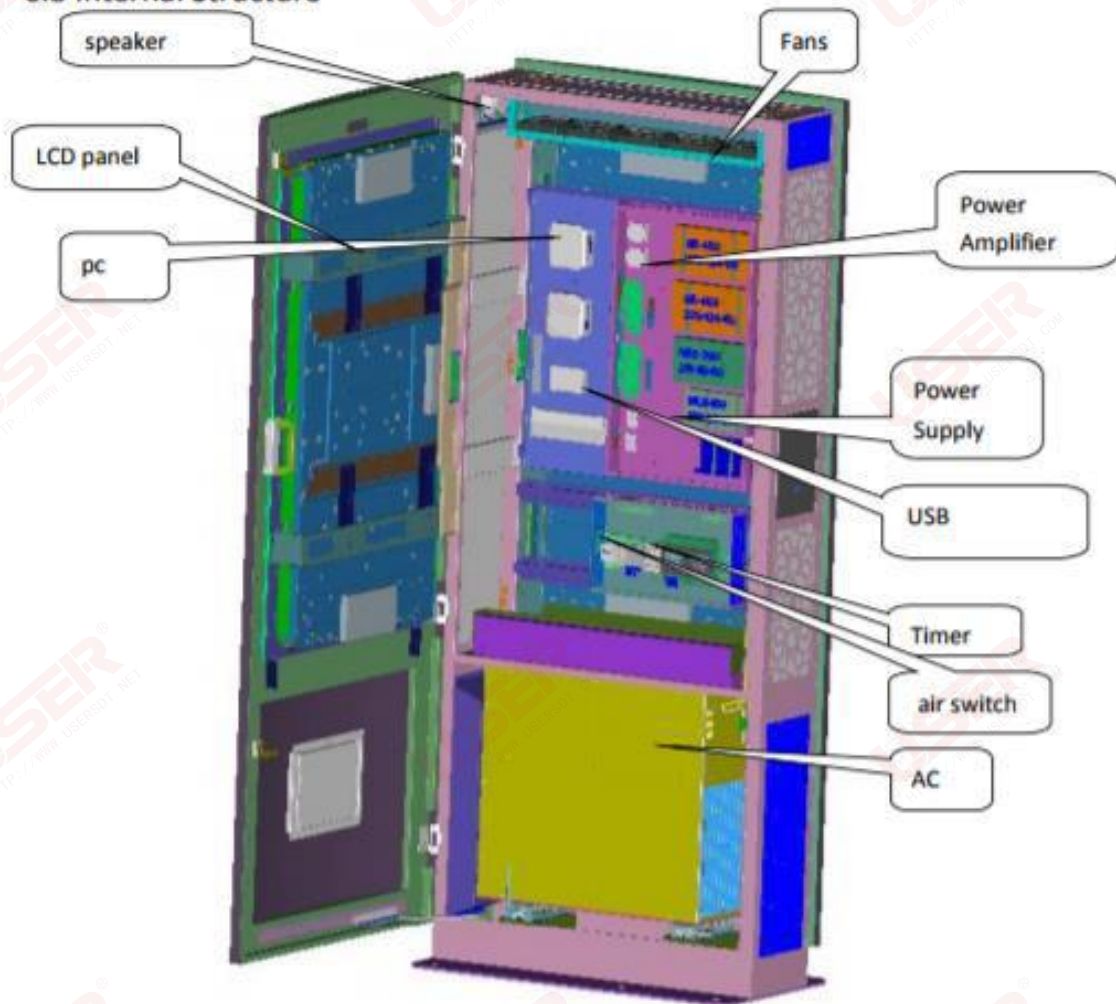


Air condition model:

Intelligent cooling and heating integrated air condition control, adapt to the temperature of -40-55 degrees working environment, cooling air conditioning automatically adjust the temperature inside the box, reduce high temperature blackening, screen fogging and other anomalies.

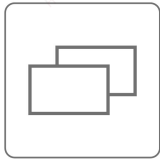


6.3 Internal Structure



6.4 Holes for cable

Tempered glass



Fully tempered frame,
tempered glass panel



High temperature resistance The hardness and pressure resistance of the whole machine can be stably operated in harsh environments with large temperature difference.



Anti-Reflection Glass

Visible light transmittance peaks 99%
Average reflectance is less than 4%, the lowest value is less than 0.5%
Brighter colors and stronger contrast

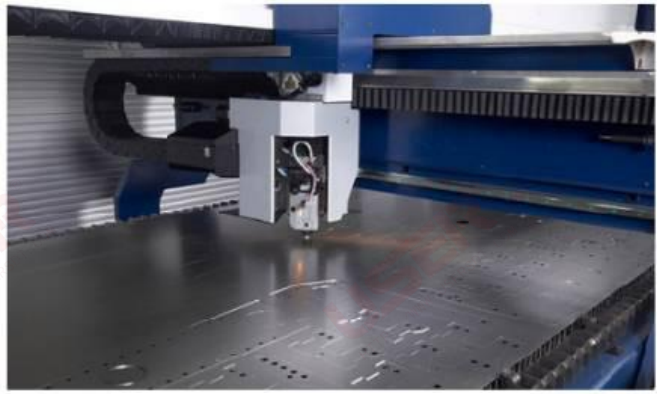
UV resistant, effective eye protection
Best scratch resistance
Keep the angle of view



Production Testing Equipment



Digital punching machine



laser cutting



bending machine



welding



automatic spraying



rain test



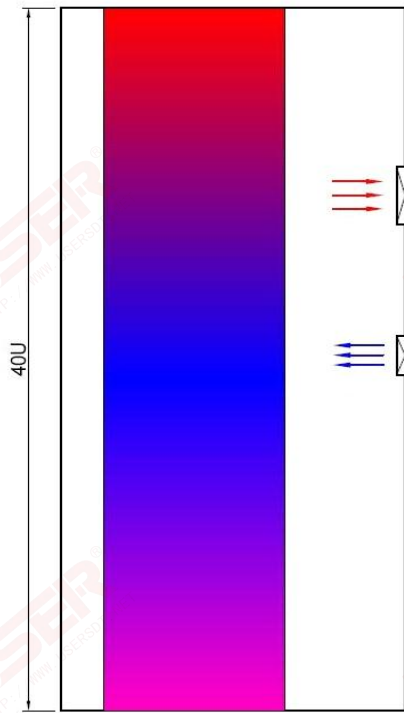
solar radiation test, high



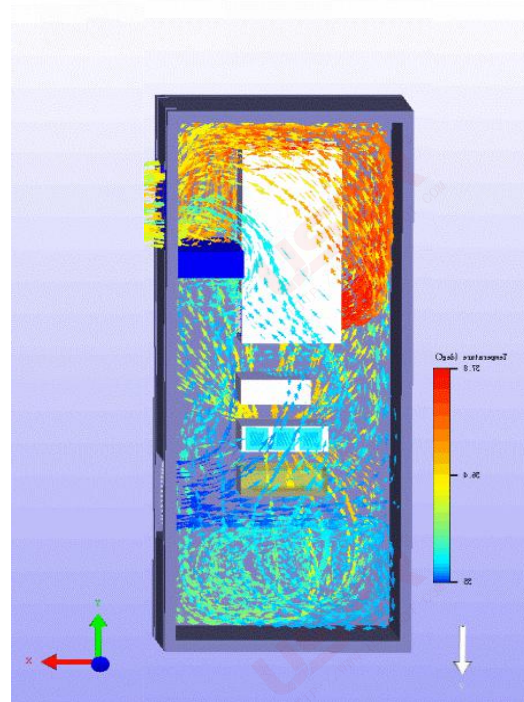
low temperature test

The heat dissipation scheme

Made by multi-function group fans cooling to ensure the normal operation of the equipment in outdoor environment.

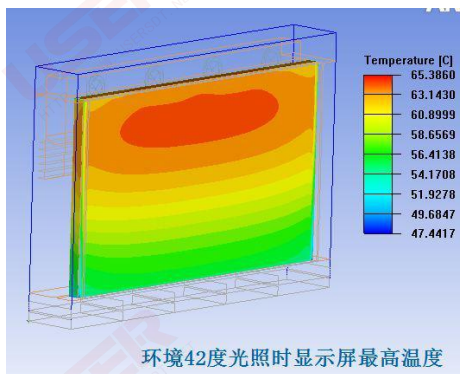


High temperature test simulation

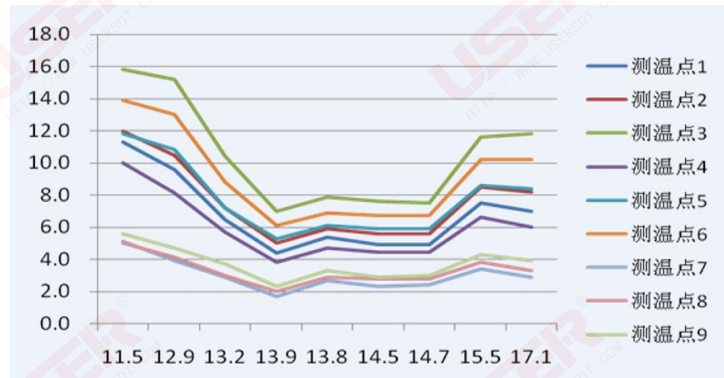


Thermal simulation simulation

The heat of the LCD screen scheme



环境42度光照时显示屏最高温度



International IP protection level division standard

The IP protection class classifies the appliance according to its dustproof and waterproof characteristics. The foreign objects referred to here include tools, human fingers, etc., which are not accessible to the live parts of the appliance to avoid electric shock. The IP protection level consists of two numbers: IP55, the first number indicates the level of dust and electrical protection of the appliance, and the second number indicates electricity.

The degree of sealing against moisture and water intrusion, the higher the number, the higher the degree of protection, IP (INTERNATIONAL PROTECTION) protection level and waterproof test

The standard is the international protection and waterproof test standard drafted by the IEC. International Electrotechnical Commission standard IEC529-598 national standard GB70086

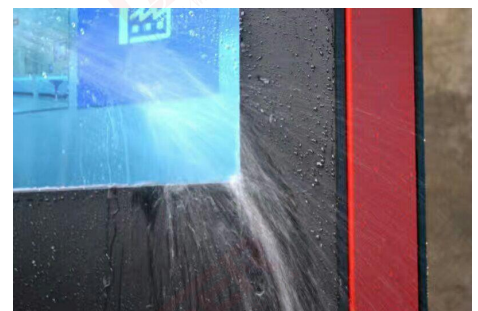
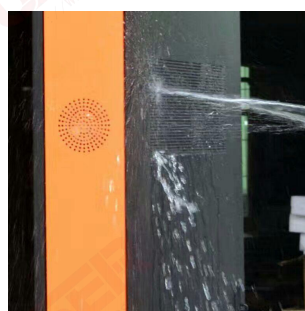


The first digit represents: anti-solid matter grade

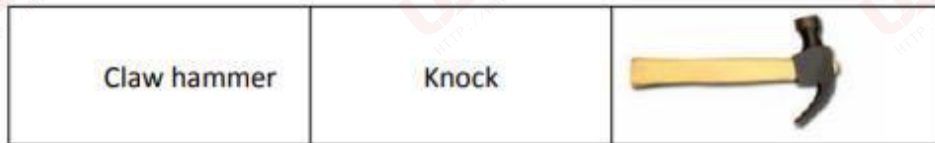
- 5. Protect dust. It is impossible to completely prevent dust from entering, but the amount of dust entering does not affect the normal operation of the equipment.
- 6, not dusty. No dust entering

The second digit represents: liquid level

- 5, protective water. Watering the equipment from any direction should not cause damage
- 6, protection of the big waves. The amount of water entering the equipment by large waves or strong water should not cause damage.
- 7. Protection against water. When immersed in water at a defined pressure and time, there should be no intrusion of water that can cause damage.
- 8. The protective water is submerged. The equipment can be immersed in water for a long time under the conditions specified by the manufacturer.

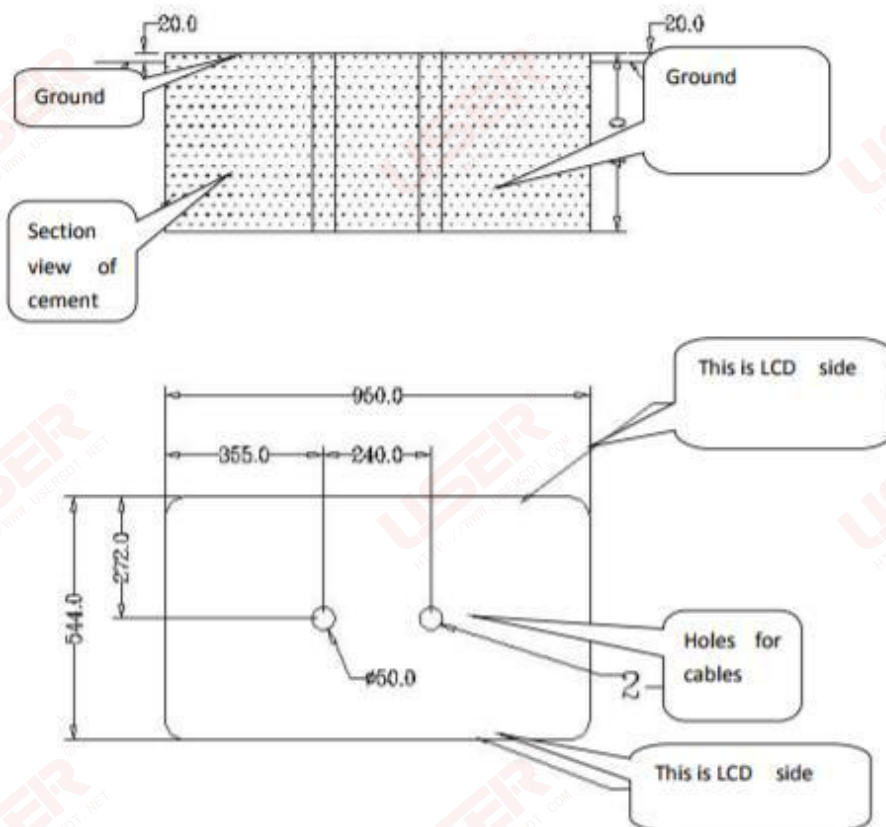


Installation scheme

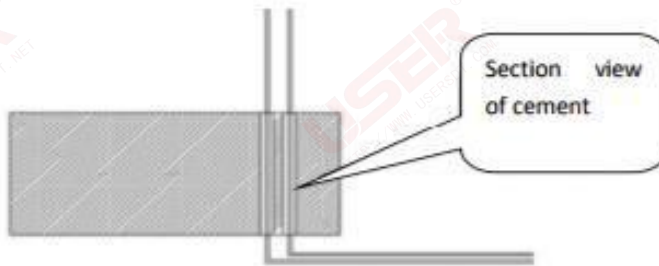


8.3 Kiosk installation

8.3.1 Make the cement foundation as per following. The external dimension must be larger than product installation size (ie icon dimensions in mm). The proposed thickness is greater than 400mm, and at least 20mm higher than the ground. Outgoing line hole shall be reserved in the cement foundation.

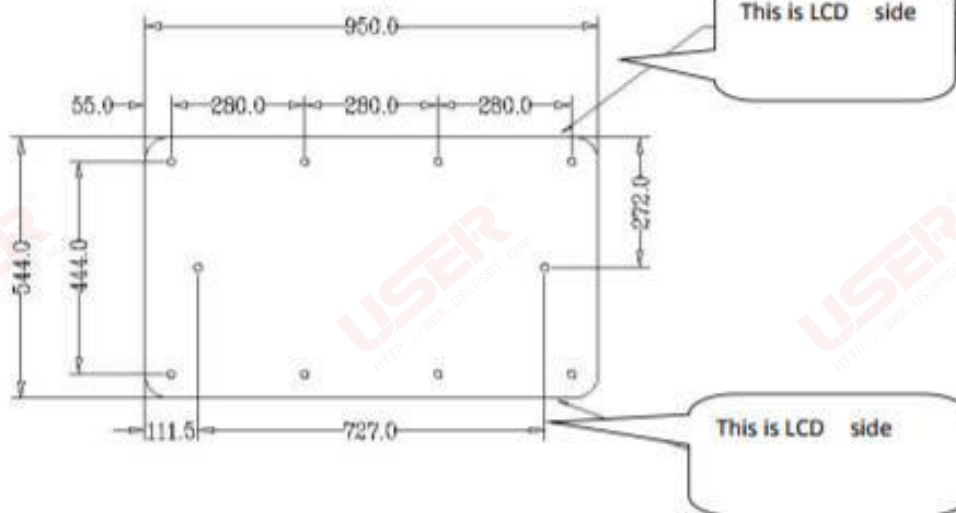
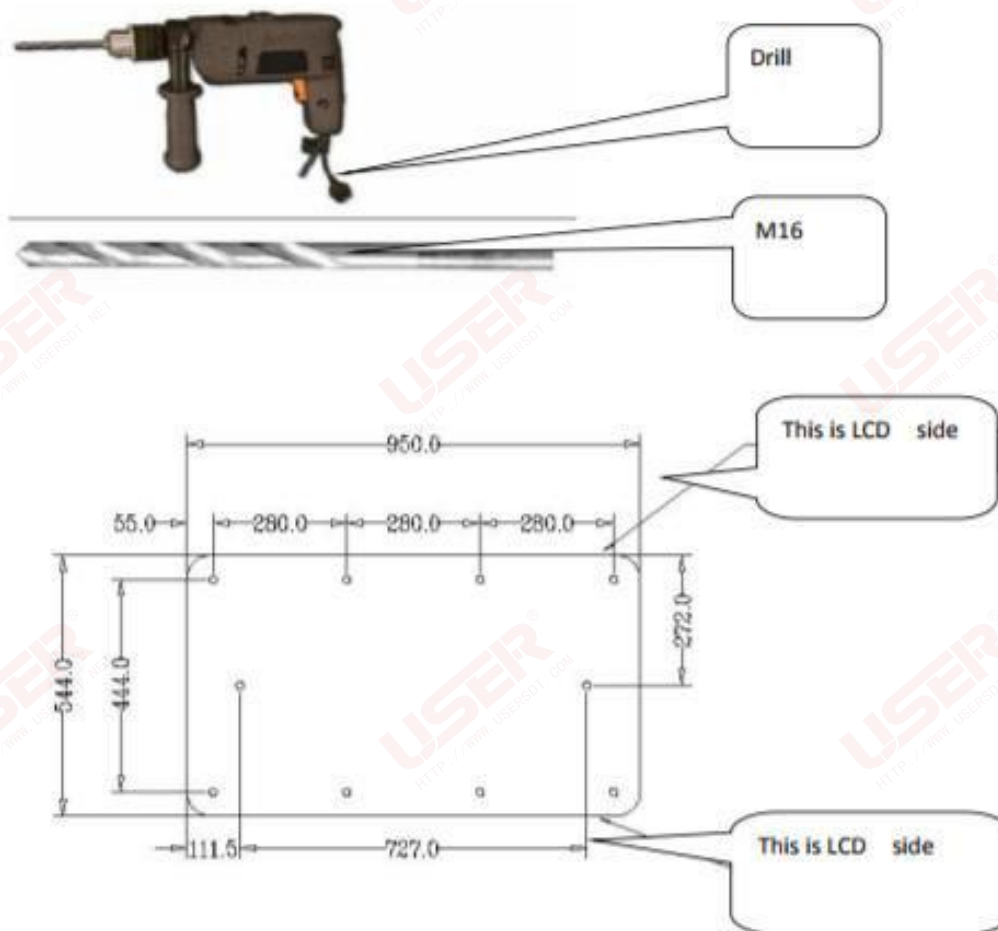


8.3.2 Reserve 2meters power cable and 2meters of LAN of out from the



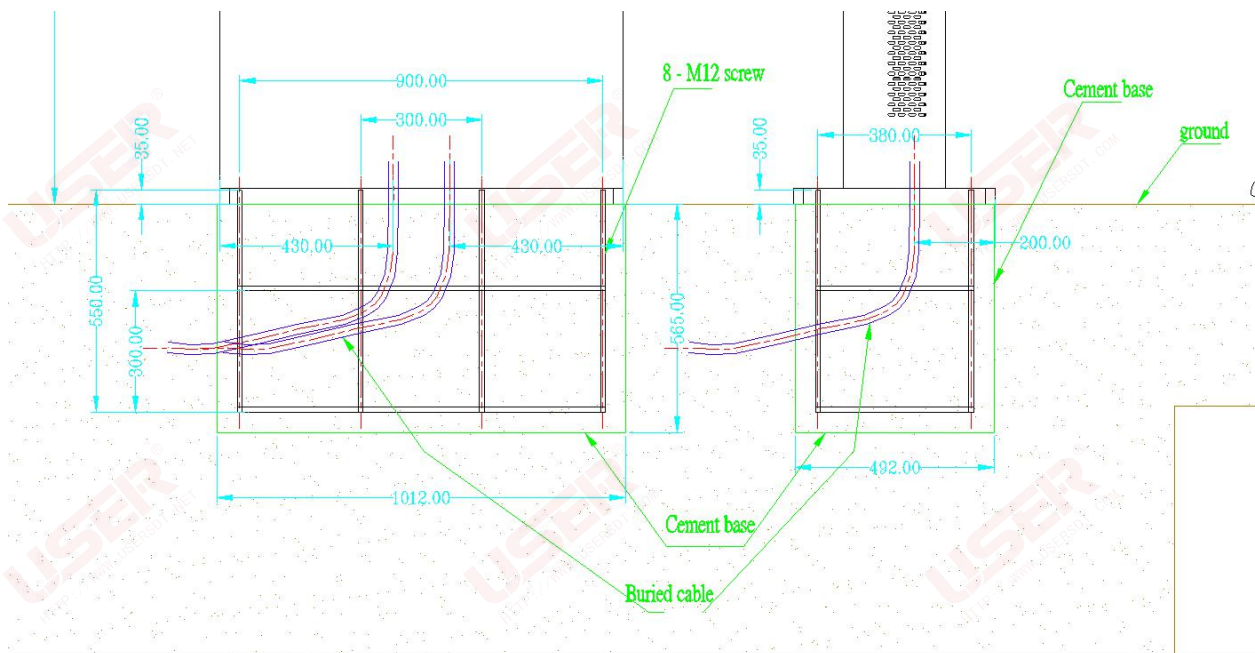
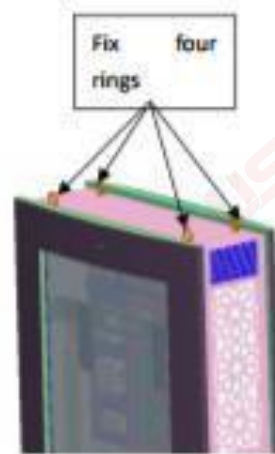
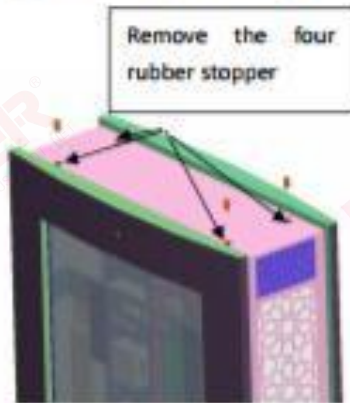
8.3.3 To make installed holes

Use M16 Drill to make 8 installed holes, when the cement is solidification.

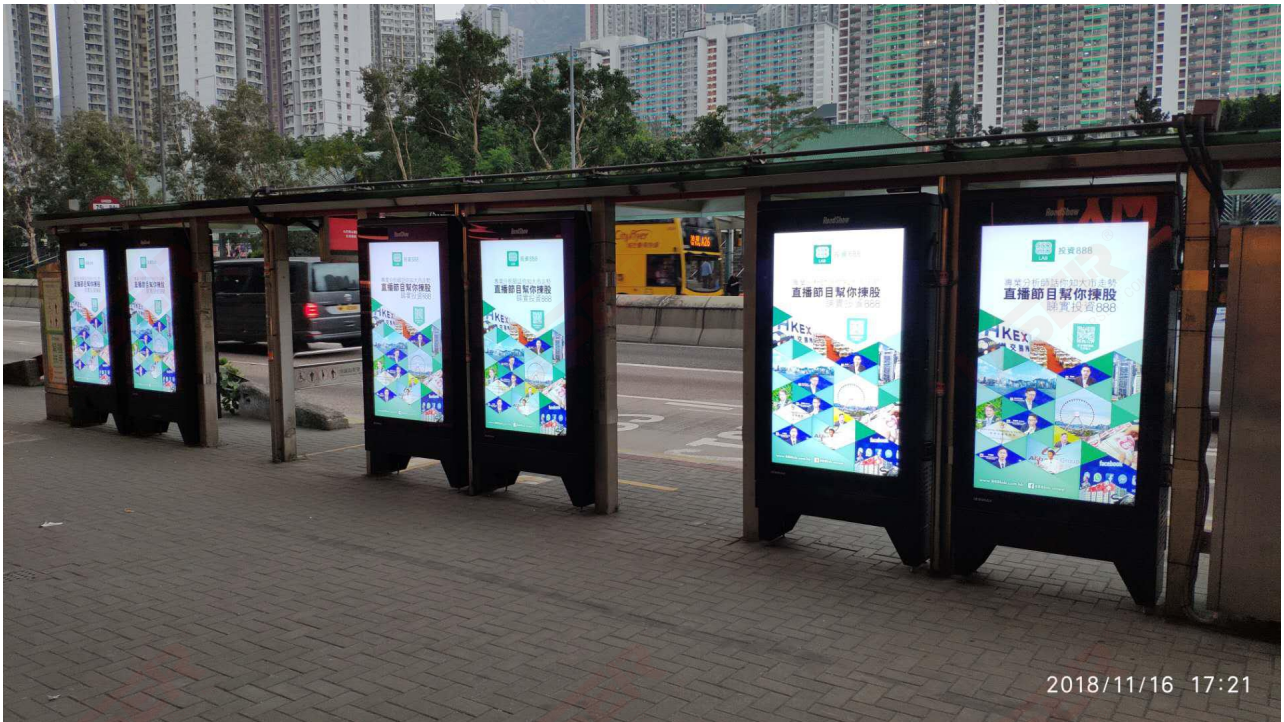


8.4 Use cranes or other appropriate tool to carry the kiosk to the cement stage, align the mounting holes. Note cement reserve cable will

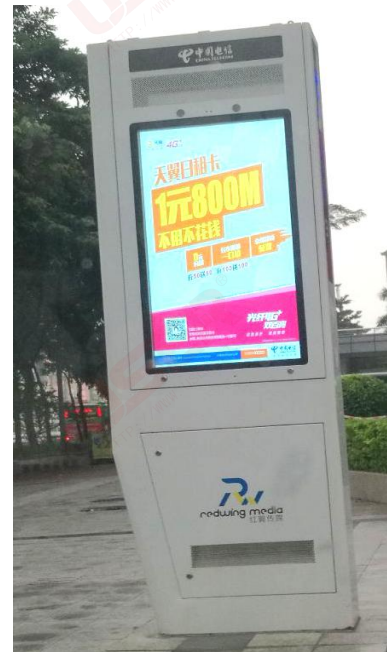
pass cable holes at the bottom. The kiosk cannot be tilted more than 30 degrees during moving.



Case studies









< □ ≡



USER
http://www.usersdt.net

USER
http://www.usersdt.net

USER
http://www.usersdt.net

Configuration optional

PC

upgradable PC

Special industrial PC can be integrated for systems with needed information issue system

Media Player

Embedded Media player

Multi-function media player embedded easy for operation

Touch

Touch screen

Adaptive infrared touch technology with high sensitivity and immune to outdoor effects

4G

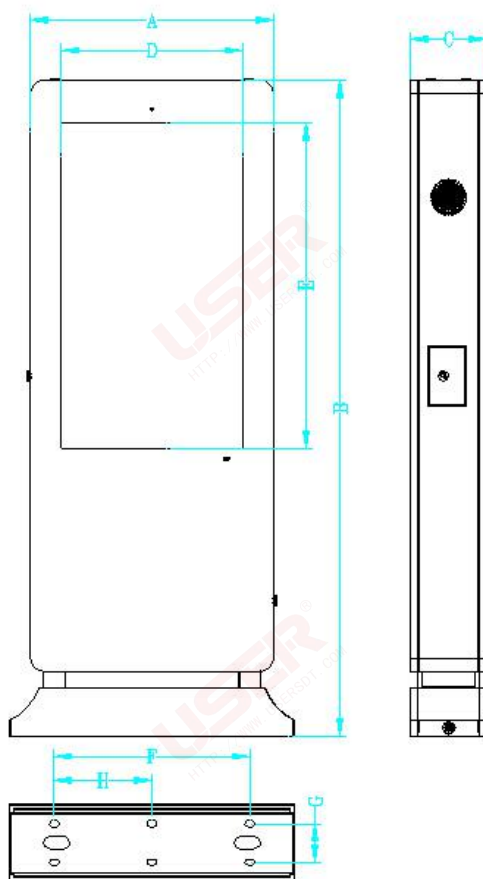
4G

IP65 antennas, router,4G card and connectors for internet access

Product Parameters

Model	FC42P01	FC47P01	FC55P01	FC65P01	FC70P01
High brightness screen					
Size	42"(930*523mm)	47"(1039 *584mm)	55"(1209 *680mm)	65"(1428 *803mm)	70"(1595*891mm)
Display Ratio	16:9	16:9	16:9	16:9	16:9
Resolution	1920*1080 Full HD	1920*1080 HD	1920*1080 Full HD	1920*1080 Full HD	1920*1080 Full HD
Brightness	1500 cd/m ²	1500 cd/m ²	2000 cd/m ²	2000 cd/m ²	2000 cd/m ²
Contrast Ratio	3000:1	3000:1	3000:1	3000:1	3000:1
Viewing Angle	178 ° horizontal / 178 ° vertical	178 ° horizontal / 178 ° vertical	178 ° horizontal / 178 ° vertical	178 ° horizontal / 178 ° vertical	178 ° horizontal / 178 ° vertical
Operation Parameters					
Video Interface	VGA HDMI	VGA HDMI	VGA HDMI	VGA HDMI	VGA HDMI
Audio Interface	Input and output	Input and output	Input and output	Input and output	Input and output
Brightness Control	Automatic light sensor system	Automatic light sensor system	Automatic light sensor system	Automatic light sensor system	Automatic light sensor system
Temperature Control System	Fan cooling	Fan cooling	Fan cooling	Fan cooling	Fan cooling
Operating Temperature	-20°C to +40°C	-20°C to +40°C	-20°C to +40°C	-20°C to +40°C	-20°C to +40°C
Operating Humidity	5% to 100%	5% to 100%	5% to 100%	5% to 100%	5% to 100%
Power Supply	AC 108-115V	AC 108-115V	AC 108-115V	AC 108-115V	AC 108-115V
	AC 208-240V	AC 208-240V	AC 208-240V	AC 208-240V	AC 208-240V
Max Consumption	400 W	600W	900W	1300W	1400W
Waterproof Enclosure					
Protection Grade	IP55	IP55	IP55	IP55	IP55
Package Size (W*H*D)	1900*700*240	1980*765*240	2000*860*240	2100*1000*240	2200*1080*240
Gross weight	108kg	128kg	160 kg	186kg	260kg
Installation	free standing	Free standing	Free standing	Free standing	Free standing
Protection Glass	6mm AR safe glass	6mm AR safe glass	6mm AR safe glass	6mm AR safe glass	6mm AR safe glass
Optional Configurations					
Advertising Industry	Network version of embedded decoding play system				
Professional Display Industry	Embedded PC and information distribution system				
Touch Screen	IR waterproof anti-glare touch screen				

Dimensions: unit (mm)



Model	A	B	C	D	E	F	G	H
FC42P01	700	1980	240	930	523	600	120	306
FC47P01	760	2050	240	1039	584	612	120	306
FC55P01	860	2160	240	1209	680	760	120	380
FC65P01	1000	2200	240	1428	803	900	120	450
FC70P01	1080	2280	240	1595	891	980	120	490