



SPECIFICATION

Product Series : SMD-E

Product Model : GK-E151/135

Changelog

version number	Pages	Revision description	Date of revision	Revision personnel
V1.0	-	First edition developed	2025.03.20	

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1.0 Scope of application

This specification is applicable to SMD-E series 4th generation standard version P1.5625 pitch, 135 inch all-in-one machine, the "product" mentioned in the follow-up without special instructions are GK-E15/135 products. If there are special requirements, can be customized according to the actual situation.

2.0 Product description

2.1 Product introduction

SMD-E series is an AIoT intelligent ecological LED display large screen system, which integrates the world's leading LED fine pitch technology, intelligent Android system and conference system. And it's widely used in government and enterprise meetings, information release, exhibition, biomedical, education and training, star hotels, private theaters, clubs and other fields.

2.2 Product features

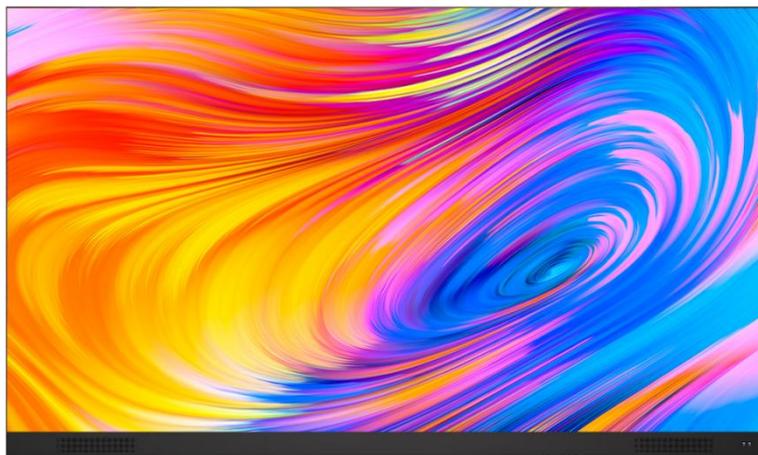
- a) Support USB flash drive hot swap, plug and play. The color saturation is more than 110% with good picture quality, and the brightness is free to adjust;
- b) Android 11 system, support various APP and with strong scalability;
- c) Independent research and development patent bracket design, adjustable height, suitable for more scenes. Medical silent roller, reliable wear ;

- d) The screen body adopts the segmented installation design to improve the installation efficiency by four times ;
- e) Support wireless projection screen, multi-screen networking interaction, multi-screen display, support remote control, mobile phones, tablets and other intelligent terminal remote control operation ;
- f) Support external HD cameras, speakers and other devices for remote video conferencing, refresh above 3840Hz, suitable for high-definition photography ;
- g) Rich interface compatibility: USB interface, HDMI input and output, RJ45 network port, Bluetooth remote control, etc ;
- h) Support Wi Fi, Bluetooth and ethernet multiple network transmission modes;
- i) User level installation and maintenance, no need for post-maintenance channels, secondary decoration, and steel structure. Support for wall mounting or mobile vertical installation;
- j) Support remote control, intelligent terminal control. Simple and convenient

2.3 Product features



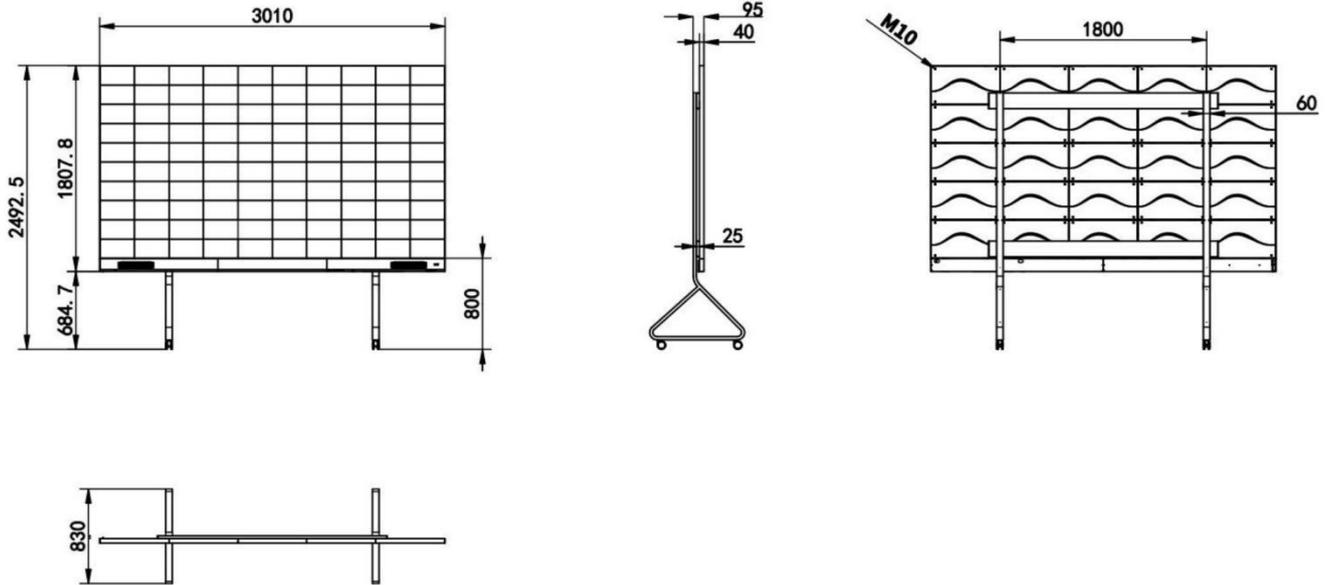
Mobile vertical installation



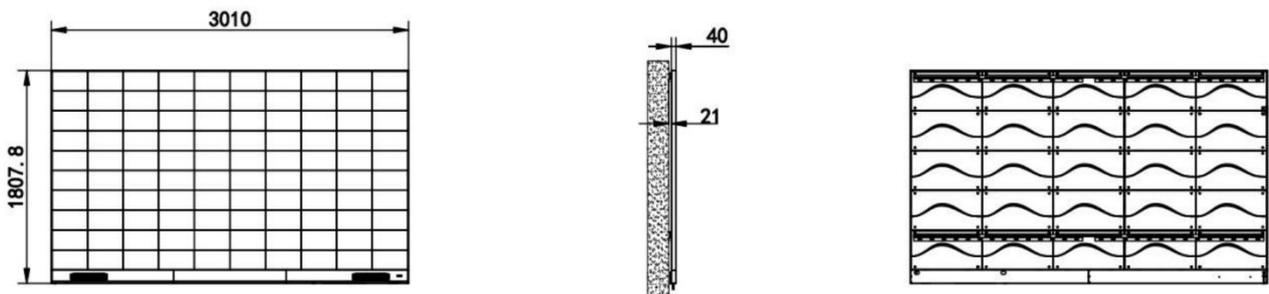
Wall mounting

2.4 Product dimensional structure drawing

◆ Mobile vertical installation :



◆ Wall mounting :



M14



Note:

1. The design and specifications will be constantly updated. If there is any change, it will not be specially notified.
2. The dimension values (mm) shown in the chart are approximate.

3.0 Technical parameters

3.1 Mechanical parameters

	Item	Parameter
Module	Pixel pitch (mm)	1.5625
	Pixel configuration	1R1G1B SMD1212
	Resolution (dots)	409600
	Module size (mm)	300*168.75
	Module quantity	10 columns x 10 rows
Screen	Screen resolution	1920*1080
	Physical Size (mm)	3010*1807
	Display Dimension(mm)	3000*1687
	Cabinet material	Die-cast aluminum
	Installation mode	Wall mounting(Standard)/Mobile vertical base (Optional)
	Maintenance mode	Front maintenance

3.4 Optical parameters

	Item	Parameter
	Grayscale (Bit)	14
	White balance brightness (nit)	100-500
	Contrast	6000 : 1
	Gamut	≥ 110% NTSC
	Color coordinates	Standard (0.2953 , 0.3047) , adjustable
	Temperature (K)	Standard 8000 , 3200~12000 adjustable
	Horizontal/vertical viewing angle	160°/140°
	Chromatic uniformity	≤0.005
	Brightness uniformity	≥95%
	Single-point brightness correction	support
	Single-point chroma correction	support

3.3 Electrical parameters

Item	Parameter
Average power (W/Set)	555
Maximum power (W/Set)	1850
Module power supply requirements	DC4.2V
Screen power supply requirements	AC100~240V , 50/60Hz

3.2 System parameters

Item	Parameter
Operating system	Android 11
RAM/Store memory	4G / 32G (Expandable SD card)
Refresh rate (Hz)	≥ 3840
Drive mode	PWM constant current drive

3.5 Packaging parameters

Item	Parameter
Screen net weight (Kg)	130
Movable base weight (Kg)	60
Mounting accessories weight (Kg)	5/pcs

Note: The Item 3.1-3.5 are the test parameters of the sample, which may vary depending on the specific batch configuration, so the parameters are for reference only;

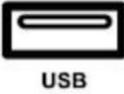
3.6 Environmental requirements

Item	Parameter
Operating environment temperature (°C)	-10~40
Operating environment humidity (RH)	10% to 65% non-condensing
Storage environment temperature (°C)	-20~50
Storage environment humidity (RH)	10% to 65% non-condensing
Waterproof and dustproof rating	IP30/IP30 (front/rear)

4.0 Product interface



Item	Parameter
Video Interface	HDMIx2 (1 in , 1out) , USB 3.0x1 , USB 2.0x3
Audio Interface	3.5mm Audio ×1 , SPDIF OUTx1
Control Interface	RJ45*1 , RS232*1 , IR IN*1 , Dual WIFI , Bluetooth , infrared remote control and RS232

No	Legend	Type	illustrate
1		Switch Button	Press the on/off button to start/close the device
2	 USB	USB2.0	USB2.0 interface, support U disk program playback and U disk firmware upgrade.
3	 USB	USB 3.0	USB3.0 (Type A) , support U disk program playback and U disk firmware upgrade.
4		HDMI OUT	HDMI 1.4 output interface, support 1920*1080@60Hz output resolution.
5		SPDIF OUT	Digital audio interface
6		AUDIO OUT	3.5mm Audio output interface.
7		RS232	Remote Control Interface
8		RJ45	Gigabit network port, directly connect the host computer to the device, or connect the device to the local area network or the public network for program release and display control.
9		Standby on/off	Press down to enter the standby state, and repeat to exit the standby state.
10		Video source switching	Click to switch the current video source, and repeat to switch the video source.
11		Brightness adjustment	Click to adjust screen brightness.
12		Power light	Red: Indicates that the device is powered on normally.
13		signal indicator light	Blue: Indicates that the device is transmitting normally.
14	/	Main power cable	3*2.5mm ² main power cable goes through holes

5.0 Product nameplate

Note: Due to different production batches, the product nameplate is optional, if you have special nameplate style or size needs, please contact us in advance

6.0 Packaging solutions

Unless the customer specifies its packaging information, it will provide customers with standard shipping containers, and the specific mode of transportation will vary slightly depending on the region, and the actual packaging methods shall prevail. The packaging method and label information are shown below.

6.1 Overall packaging scheme



Screen module carton packing



Vertical base carton packing

7.0 Precautions for product use

Item	Parameter & description
Operating environment temperature	Ambient temperature: -10°C~40°C; Other temperature ranges require the addition of temperature control equipment; The temperature of the lamp surface ≤ 60 °C during the working process, and the temperature exceeds the standard and the temperature control equipment needs to be added;
Storage environment temperature	Ambient temperature: -20°C~50°C; Above 30 °C requires cooling treatment; Exceeded -20°C needs to be heated up;
Operating environment humidity	Ambient humidity: 10 ~ 65% RH, humidity exceeding the standard needs to be dehumidified in the use of the environment before normal use ;
Storage environment humidity	Ambient humidity: 10~ 65% RH, humidity more than 80% RH needs to be dehumidified;
Overdue storage treatment	The product has not been stored for more than one month or power out of the box for more than 48 hours after opening the box, and it takes 6 hours of aging before use before normal use. The aging mode is: full brightness setting 10% 1hrs, full brightness setting 30% 1hrs, full brightness setting 60% 2hrs, full brightness setting 80% 1hrs, full brightness setting 100% 1hrs (brightness gradually increasing aging);
Dustproof	Ip3X dustproof rating on the back. Should not be exposed to more dust environment, such as more sand and dust outdoors, indoor high dust workshop, etc., need to display the box for special protection;
Corrosive gas resistant	Corrosive gases in the air containing salt or acid gas environment, will cause corrosion of electronic components, crystalline leakage and other phenomena;

Protection against electromagnetic radiation	The module should not be placed in an environment where electromagnetic radiation and radio frequency radiation exceed the intensity of the electric field by 5V/m interference sources;
Anti-static	Prevent the damage of electrostatics to electronic devices in humid environments, and avoid the damage of leakage to the human body;
shockproof	The display should be installed on a robust and reliable installation structure without strong vibration;
Stay away from water sources	The box is not treated with waterproofing, and the water conductivity can short-circuit the circuit, resulting in damage to the circuit devices, so it is necessary to stay away from the water source;
Personal injury	The angle and height of the module installation should be suitable, and the sharp corners should be packaged to prevent the damage of the strong outer shell to the human body;
Security requirements	It is necessary to ensure the stability of the power supply system, maintain the normal level of frequency, voltage, current harmonics, when a plurality of LED display boxes are spliced, the metal shell should be grounded together with the metal frame installed in the LED display, and the grounding resistance of the overall system of the display should not be greater than 1Ω , and the leakage current should not exceed 5% of the input current. The electrical strength should meet the provisions of SJ/T 1114 1-2017 General Specification 5.7.5 for light-emitting diode (LED) displays;
other	If the product is an indoor installation product, it should be confirmed that the structure of the product is stable and the safety of the surrounding personnel;