



# Outdoor Transparent LED Wall

TPS-08



**TPS-08-3125**

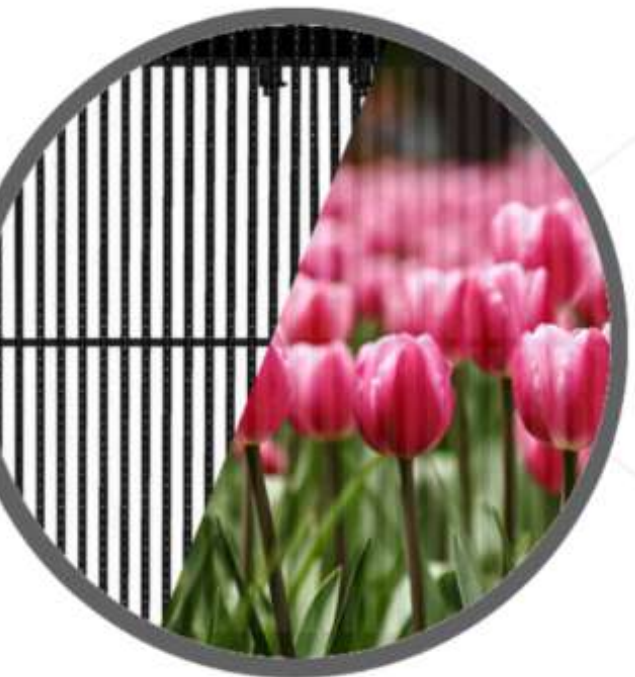
**Description: P31.25**

**Lamp: SMD3535**

## Parameters (T=25°C)

Item	Parameter	Remark
<b>Basic Parameter</b>		
Pixel Pitch	31.25mm	
Pixel Structure	1R1G1B	
Pixel Density	1024 pixels/m <sup>2</sup>	
Cabinet Resolution	32X32	
Cabinet Size (WXH)	1000X1000X80mm	
Weight	<10kg/m <sup>2</sup>	
<b>Optical Parameter</b>		
White Balance Brightness	≥3000cd/m <sup>2</sup>	
Color Temperature	5500K—9300K Adjustable	
Horizontal Viewing Angle	140 Deg.	
Vertical Viewing Angle	140 Deg.	
Visible Distance	40-250m	
Brightness Uniformity	≥95%	
Contrast Ratio	2000:1	
<b>Process Performance</b>		
Signal processing bits	≥10 bits	
Gray scale	8192	
Drive Mode	constant current source driver	
Frame Rate	≥60HZ	
Refresh Rate	≥1920HZ	
Way to Control	Synchronize/Asynchronous	
Brightness Adjustment Range	≥256 Stepless Adjustment	
<b>Usage Parameter</b>		
Continuous Operation Time	≥72h	
Expected LED Lifetime(Max)	>100,00 hours	
IP Rating	IP65	
Operating Temperature	-10 °C to 65 °C	
Operating Humidity	10 %- 90% RH No Condensation	
Storage Temperature	-40 °C to 85 °C	
<b>Electrical Parameter</b>		
Power Requirements	AC: 220× (1±10%) V、50× (1±5%) Hz	
Maximum power consumption	400W/m <sup>2</sup>	
Average power consumption	100W/m <sup>2</sup>	

## Details



- Ultra-thin light box, aluminum frame design, the thickness of the unit is only 80 mm, weight is less than 10 kg per square meter
- Hollow design, light transmittance up to 35%, with strong resistance to wind pressure
- Quick installation, support lifting, fixed installation mode
- Through 3C, FCC, ROHS, CE, ISO9001, IP65 waterproof test report, China energy conservation and environmental protection products test report certification



## Tests

Categories	Item	Reference Standard	Experimental Conditions	Duration Time	Receiving Standard
<b>LED Lamp</b>					
Environmental Experiments	Temperature Cycle	JESD22-A104-A	-40°C~25°C~100°C~25°C 30min, 5min, 30min, 5min	Cycle 100 times	0/50
	Cold & Heat Shock	JESD22-A106	-40°C~100°C 30 min,30min	Cycle 100 times	0/50
	High temperature storage	JIS C 7021 (1977)B-11	Ta=60°C RH=90%	1000 hours	0/50
Lifetime Test	Ambient temperature lifetime tests	JESD22-A108-A	Ta=25°C Test Conditions: Power on and lit	1000 hours	0/50
	High temperature lifetime tests	JESD22-A101	Ta =85°C RH=85% Test Conditions: Power on and lit	1000 hours	0/50
Mechanical Vibration Experiments	Mechanical vibration	MIL-STD-883 Method 2007	20G minutes, 20 to 2000Hz4 cycles, 4 minutes. Each,X,Y,Z	---	0/50
<b>LED Finished Unit Cabinet</b>					
Environmental Storage Experiment	Low temperature storage tests	GB2423.2	Storage at (-40±2)°C for 4h, recovery at room temperature for 4 h,normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
	High temperature storage tests	GB2423.2	Storage at (60±2)°C for 4h, recovery at room temperature for 4 h, normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
Ageing Test	Ambient temperature ageing test		Ta=25°C 72-hour uninterrupted power-on display playing	72 hours	0/50
	High temperature ageing test	GB2423.2-89	Check every hour for 8h at (40±2)°C.Normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
Mechanical Vibration Experiments	Mechanical vibration	GB6587.4-86	Vibration frequency 5HZ-55HZ-5HZ,amplitude 0.19mm, 5 minutes	5 min	0/50

## Notes

### Using environment

- This product is an outdoor display; avoid using it in high temperature, high acid/alkali/salt environments.
- Keep away from flammable materials, gases and dusts; the normal operating temperature of this product is -20~50°C, the optimal ambient temperature is -10~40°C.
- Avoid storage in high temperature, high humidity, high acid/alkali/salt environment; keep away from flammable materials and gases.
- Avoid strong collisions and sharp objects during transport.

### Operations

- This product is DC +5V power supply (working voltage: 4.5~5.2V), AC power supply is forbidden; power terminals are forbidden to be reversed.
- If the product is faulty during the warranty period, please send it back to our company for repair, or repair it under the guidance of our after-sales staff.
- during dismantling/assembly of the product, be sure to operate with care and avoid tools hitting the product.
- lightning and static protection should be done during operation and use; the box and steel structure should be earthed
- the product should not be switched on and off continuously during use; at least 1 minute should elapse between operations
- this product should not be turned off for a long time, it is recommended to use it once in half a month with 4 hours of power on; in high humidity environment, it is recommended to use it once in a week with 4 hours of power on.
- This product is not allowed to play the highest brightness all-white screen for more than half an hour, it is recommended to play dynamic video mainly.

### Cleaning

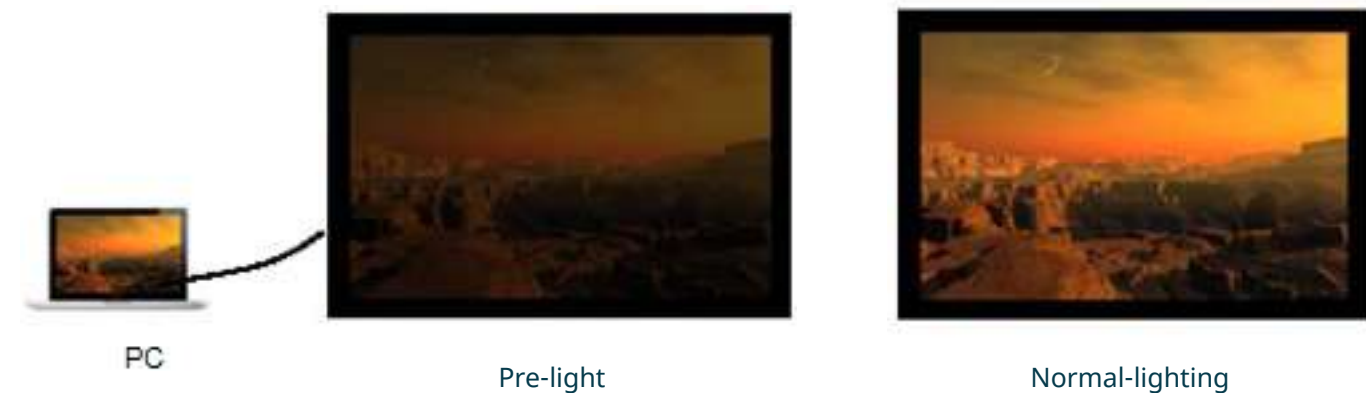
- If cleaning the module surface, please use a soft bristle brush and brush gently. Do not use any liquid substances to clean the surface of the LED module, as this may damage the SMD-LED.

### Moisture-proof and storage requirements

- After opening the package, the product must be stored in the temperature <30°C and humidity <60% environment.
- If the screen is not used for more than 3 days, please use the pre-lighting method first: 30%-50% brightness for 4-8 hours, and then adjust it to normal brightness (80%-100%) to light up the screen, for eliminating the moisture and normal operation.
- If the screen is not used for more than 7 days, please use the pre-lighting method first: 30%-50% brightness for more than 12 hours, and then adjust it to normal brightness (80%-100%) to light up the screen, for eliminating the moisture and normal operation.

- More than 3 days, LED screen (30%-50% in brightness) pre-lit 4-8 hours
- More than 7 days, LED screen (30%-50% in brightness) pre-lit more than 12 hours

#### The operation process is as follows:





**TPS-08-1531**

**Description: P15.6 x 31.25**

**Lamp: DIP346**

## Parameters (T=25°C)

Item	Parameter	Remark
<b>Basic Parameter</b>		
Pixel Pitch	15.625*31.25mm	
Pixel Structure	1R1G1B	
Pixel Density	2048 pixels/m <sup>2</sup>	
Module Size	500x250x25mm	
Cabinet Resolution	64X32	
Cabinet Size (WXH)	1000X1000X85mm	
<b>Optical Parameter</b>		
White Balance Brightness	8000cd/m <sup>2</sup>	
Color Temperature	5500K—9300K Adjustable	
Horizontal Viewing Angle	120Deg.	
Vertical Viewing Angle	60Deg.	
Visible Distance	15+m	
Brightness Uniformity	≥95%	
Contrast Ratio	5000:1	
<b>Process Performance</b>		
Gray scale	14bit	
Drive Mode	constant current source driver	
Frame Rate	≥60HZ	
Refresh Rate	≥3840HZ	
Way to Control	Synchronize/Asynchronous	
Brightness Adjustment Range	≥256 Stepless Adjustment	
<b>Usage Parameter</b>		
Continuous Operation Time	≥72h	
Expected LED Lifetime(Max)	>10,0000 hours	
IP Rating	IP65	
Operating Temperature	-10 °C to 65 °C	
Operating Humidity	10 %- 90% RH No Condensation	
Storage Temperature	-40 °C to 85 °C	
<b>Electrical Parameter</b>		
Power Requirements	AC: 220× (1±10%) V、50× (1±5%) Hz	
Maximum power consumption	360W/m <sup>2</sup>	
Average power consumption	90W/m <sup>2</sup>	

## Details



- Ultra-thin light box, aluminum frame design, the thickness of the unit is only 85 mm, weight is less than 20 kg per square meter
- Hollow design, light transmittance up to 50%, with strong resistance to wind pressure
- Quick installation, support lifting, fixed installation mode
- Through 3C, FCC, ROHS, CE, ISO9001, IP65 waterproof test report, China energy conservation and environmental protection products test report certification

## Tests

Categories	Item	Reference Standard	Experimental Conditions	Duration Time	Receiving Standard
<b>LED Lamp</b>					
Environmental Experiments	Temperature Cycle	JESD22-A104-A	-40°C~25°C~100°C~25°C 30min, 5min, 30min, 5min	Cycle 100 times	0/50
	Cold & Heat Shock	JESD22-A106	-40°C~100°C 30 min,30min	Cycle 100 times	0/50
	High temperature storage	JIS C 7021 (1977)B-11	Ta=60°C RH=90%	1000 hours	0/50
Lifetime Test	Ambient temperature lifetime tests	JESD22-A108-A	Ta=25°C Test Conditions: Power on and lit	1000 hours	0/50
	High temperature lifetime tests	JESD22-A101	Ta =85°C RH=85% Test Conditions: Power on and lit	1000 hours	0/50
Mechanical Vibration Experiments	Mechanical vibration	MIL-STD-883 Method 2007	20G minutes, 20 to 2000Hz4 cycles, 4 minutes. Each,X,Y,Z	---	0/50
<b>LED Finished Unit Cabinet</b>					
Environmental Storage Experiment	Low temperature storage tests	GB2423.2	Storage at (-40±2)°C for 4h, recovery at room temperature for 4 h,normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
	High temperature storage tests	GB2423.2	Storage at (60±2)°C for 4h, recovery at room temperature for 4 h, normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
Ageing Test	Ambient temperature ageing test		Ta=25°C72-hour uninterrupted power-on display playing	72 hours	0/50
	High temperature ageing test	GB2423.2-89	Check every hour for 8h at (40±2)°C.Normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
Mechanical Vibration Experiments	Mechanical vibration	GB6587.4-86	Vibration frequency 5HZ-55HZ-5HZ, amplitude 0.19mm, 5 minutes	5 min	0/50

## Notes

### Using environment

- This product is an outdoor display; avoid using it in high temperature, high acid/alkali/salt environments.
- Keep away from flammable materials, gases and dusts; the normal operating temperature of this product is -20~50°C, the optimal ambient temperature is -10~40°C.
- Avoid storage in high temperature, high humidity, high acid/alkali/salt environment; keep away from flammable materials and gases.
- Avoid strong collisions and sharp objects during transport.

### Operations

- This product is DC +5V power supply (working voltage: 4.5~5.2V), AC power supply is forbidden; power terminals are forbidden to be reversed.
- If the product is faulty during the warranty period, please send it back to our company for repair, or repair it under the guidance of our after-sales staff.
- during dismantling/assembly of the product, be sure to operate with care and avoid tools hitting the product.
- lightning and static protection should be done during operation and use; the box and steel structure should be earthed
- the product should not be switched on and off continuously during use; at least 1 minute should elapse between operations
- this product should not be turned off for a long time, it is recommended to use it once in half a month with 4 hours of power on; in high humidity environment, it is recommended to use it once in a week with 4 hours of power on.
- This product is not allowed to play the highest brightness all-white screen for more than half an hour, it is recommended to play dynamic video mainly.

### Cleaning

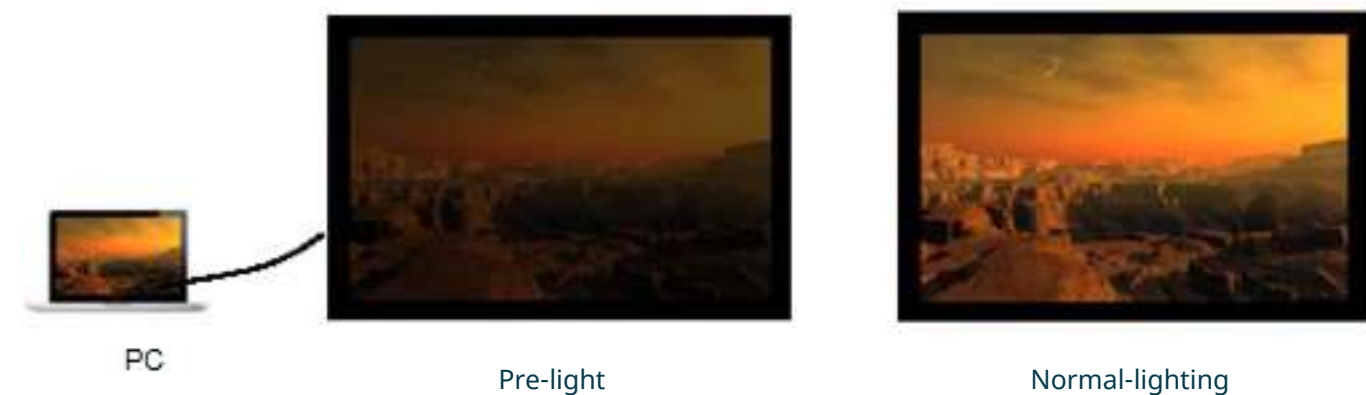
- If cleaning the module surface, please use a soft bristle brush and brush gently. Do not use any liquid substances to clean the surface of the LED module, as this may damage the SMD-LED.

### Moisture-proof and storage requirements

- After opening the package, the product must be stored in the temperature <30°C and humidity <60% environment.
- If the screen is not used for more than 3 days, please use the pre-lighting method first: 30%-50% brightness for 4-8 hours, and then adjust it to normal brightness (80%-100%) to light up the screen, for eliminating the moisture and normal operation.
- If the screen is not used for more than 7 days, please use the pre-lighting method first: 30%-50% brightness for more than 12 hours, and then adjust it to normal brightness (80%-100%) to light up the screen, for eliminating the moisture and normal operation.

- More than 3 days, LED screen (30%-50% in brightness) pre-lit 4-8 hours
- More than 7 days, LED screen (30%-50% in brightness) pre-lit more than 12 hours

#### The operation process is as follows:





**TPS-08-1560**

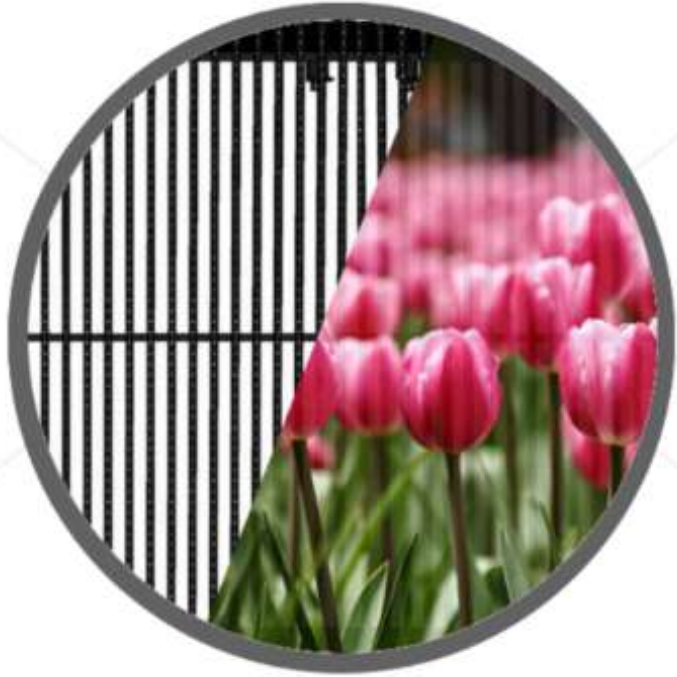
**Description: P15.6**

**Lamp: SMD3535**

## Parameters (T=25°C)

Item	Parameter	Remark
<b>Basic Parameter</b>		
Pixel Pitch	15.625mm	
Pixel Structure	1R1G1B	
Pixel Density	4096 pixels/m <sup>2</sup>	
Cabinet Resolution	64X64	
Cabinet Size (WXH)	1000X1000X80mm	
Weight	< 12kg/m <sup>2</sup>	
<b>Optical Parameter</b>		
White Balance Brightness	≥4500cd/m <sup>2</sup>	
Color Temperature	5500K—9300K Adjustable	
Horizontal Viewing Angle	140 Deg.	
Vertical Viewing Angle	140 Deg.	
Visible Distance	20-250m	
Brightness Uniformity	≥95%	
Contrast Ratio	2000:1	
<b>Process Performance</b>		
Signal processing bits	≥10 bits	
Gray scale	8192	
Drive Mode	constant current source driver	
Frame Rate	≥60HZ	
Refresh Rate	≥1920HZ	
Way to Control	Synchronize/Asynchronous	
Brightness Adjustment Range	≥256 Stepless Adjustment	
<b>Usage Parameter</b>		
Continuous Operation Time	≥72h	
Expected LED Lifetime(Max)	>100,00 hours	
IP Rating	IP65	
Operating Temperature	-10 °C to 65 °C	
Operating Humidity	10 %- 90% RH No Condensation	
Storage Temperature	-40 °C to 85 °C	
<b>Electrical Parameter</b>		
Power Requirements	AC: 220× (1±10%) V、50× (1±5%) Hz	
Maximum power consumption	800W/m <sup>2</sup>	
Average power consumption	240W/m <sup>2</sup>	

## Details



- Ultra-thin light box, aluminum frame design, the thickness of the unit is only 80 mm, weight is less than 10 kg per square meter
- Hollow design, light transmittance up to 35%, with strong resistance to wind pressure
- Quick installation, support lifting, fixed installation mode
- Through 3C, FCC, ROHS, CE, ISO9001, IP65 waterproof test report, China energy conservation and environmental protection products test report certification

## Tests

Categories	Item	Reference Standard	Experimental Conditions	Duration Time	Receiving Standard
<b>LED Lamp</b>					
Environmental Experiments	Temperature Cycle	JESD22-A104-A	-40°C~25°C~100°C~25°C 30min, 5min, 30min, 5min	Cycle 100 times	0/50
	Cold & Heat Shock	JESD22-A106	-40°C~100°C 30 min,30min	Cycle 100 times	0/50
	High temperature storage	JIS C 7021 (1977)B-11	Ta=60°C RH=90%	1000 hours	0/50
Lifetime Test	Ambient temperature lifetime tests	JESD22-A108-A	Ta=25°C Test Conditions: Power on and lit	1000 hours	0/50
	High temperature lifetime tests	JESD22-A101	Ta =85°C RH=85% Test Conditions: Power on and lit	1000 hours	0/50
Mechanical Vibration Experiments	Mechanical vibration	MIL-STD-883 Method 2007	20G minutes, 20 to 2000Hz4 cycles, 4 minutes. Each,X,Y,Z	---	0/50
<b>LED Finished Unit Cabinet</b>					
Environmental Storage Experiment	Low temperature storage tests	GB2423.2	Storage at (-40±2)°C for 4h, recovery at room temperature for 4 h,normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
	High temperature storage tests	GB2423.2	Storage at (60±2)°C for 4h, recovery at room temperature for 4 h, normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
Ageing Test	Ambient temperature ageing test		Ta=25°C72-hour uninterrupted power-on display playing	72 hours	0/50
	High temperature ageing test	GB2423.2-89	Check every hour for 8h at (40±2)°C.Normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
Mechanical Vibration Experiments	Mechanical vibration	GB6587.4-86	Vibration frequency 5HZ-55HZ-5HZ, amplitude 0.19mm, 5 minutes	5 min	0/50

## Notes

### Using environment

- This product is an outdoor display; avoid using it in high temperature, high acid/alkali/salt environments.
- Keep away from flammable materials, gases and dusts; the normal operating temperature of this product is -20~50°C, the optimal ambient temperature is -10~40°C.
- Avoid storage in high temperature, high humidity, high acid/alkali/salt environment; keep away from flammable materials and gases.
- Avoid strong collisions and sharp objects during transport.

### Operations

- This product is DC +5V power supply (working voltage: 4.5~5.2V), AC power supply is forbidden; power terminals are forbidden to be reversed.
- If the product is faulty during the warranty period, please send it back to our company for repair, or repair it under the guidance of our after-sales staff.
- during dismantling/assembly of the product, be sure to operate with care and avoid tools hitting the product.
- lightning and static protection should be done during operation and use; the box and steel structure should be earthed
- the product should not be switched on and off continuously during use; at least 1 minute should elapse between operations
- this product should not be turned off for a long time, it is recommended to use it once in half a month with 4 hours of power on; in high humidity environment, it is recommended to use it once in a week with 4 hours of power on.
- This product is not allowed to play the highest brightness all-white screen for more than half an hour, it is recommended to play dynamic video mainly.

### Cleaning

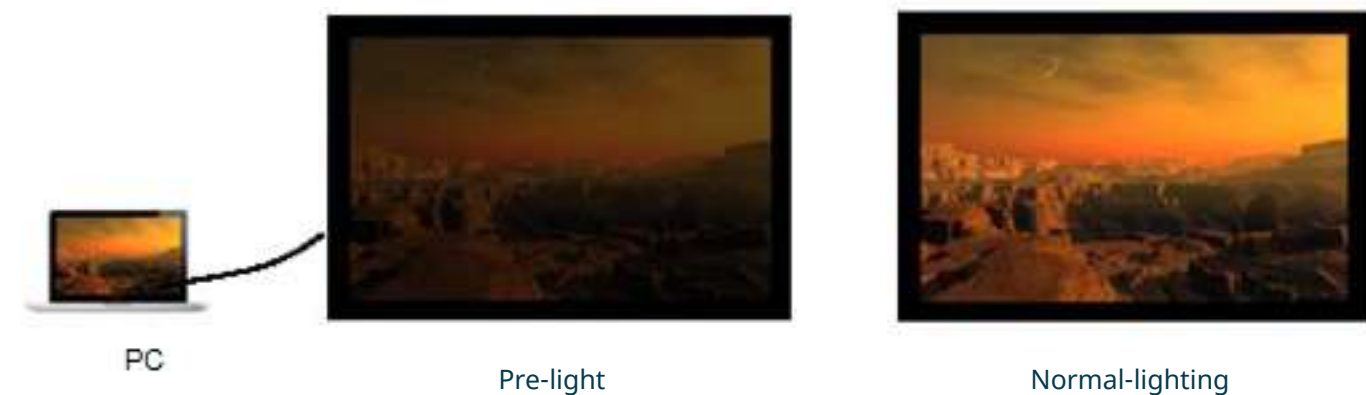
- If cleaning the module surface, please use a soft bristle brush and brush gently. Do not use any liquid substances to clean the surface of the LED module, as this may damage the SMD-LED.

### Moisture-proof and storage requirements

- After opening the package, the product must be stored in the temperature <30°C and humidity <60% environment.
- If the screen is not used for more than 3 days, please use the pre-lighting method first: 30%-50% brightness for 4-8 hours, and then adjust it to normal brightness (80%-100%) to light up the screen, for eliminating the moisture and normal operation.
- If the screen is not used for more than 7 days, please use the pre-lighting method first: 30%-50% brightness for more than 12 hours, and then adjust it to normal brightness (80%-100%) to light up the screen, for eliminating the moisture and normal operation.

- More than 3 days, LED screen (30%-50% in brightness) pre-lit 4-8 hours
- More than 7 days, LED screen (30%-50% in brightness) pre-lit more than 12 hours

#### The operation process is as follows:





**TPS-08-835125**

**Description: P8.35 x 12.5**

**Lamp: SMD3535**

## Parameters (T=25°C)

Item	Parameter	Remark
<b>Basic Parameter</b>		
Pixel Pitch	8.35x12.5mm	
Pixel Structure	1R1G1B	
Pixel Density	9600 pixels/m <sup>2</sup>	
Cabinet Resolution	120X80	
Cabinet Size (WXH)	1000mmX1000x80mm	
Weight	<17kg/m <sup>2</sup>	
<b>Optical Parameter</b>		
White Balance Brightness	≥5000cd/m <sup>2</sup>	
Color Temperature	5500K—9300K Adjustable	
Horizontal Viewing Angle	140 Deg.	
Vertical Viewing Angle	140 Deg.	
Visible Distance	10-250m	
Brightness Uniformity	≥95%	
Contrast Ratio	2000:1	
<b>Process Performance</b>		
Signal processing bits	≥10 bits	
Gray scale	8192	
Drive Mode	constant current source driver	
Frame Rate	≥60HZ	
Refresh Rate	≥1920HZ	
Way to Control	Synchronize/Asynchronous	
Brightness Adjustment Range	≥256 Stepless Adjustment	
<b>Usage Parameter</b>		
Continuous Operation Time	≥72h	
Expected LED Lifetime(Max)	>100,00 hours	
IP Rating	IP65	
Operating Temperature	-10 °C to 65 °C	
Operating Humidity	10 %- 90% RH No Condensation	
Storage Temperature	-40 °C to 85 °C	
<b>Electrical Parameter</b>		
Power Requirements	AC: 220× (1±10%) V、50× (1±5%) Hz	
Maximum power consumption	800W/m <sup>2</sup>	
Average power consumption	250W/m <sup>2</sup>	

## Details



- Ultra-thin light box, aluminum frame design, the thickness of the unit is only 80 mm, weight is less than 10 kg per square meter
- Hollow design, light transmittance up to 35%, with strong resistance to wind pressure
- Quick installation, support lifting, fixed installation mode
- Through 3C, FCC, ROHS, CE, ISO9001, IP65 waterproof test report, China energy conservation and environmental protection products test report certification

## Tests

Categories	Item	Reference Standard	Experimental Conditions	Duration Time	Receiving Standard
<b>LED Lamp</b>					
Environmental Experiments	Temperature Cycle	JESD22-A104-A	-40°C~25°C~100°C~25°C 30min, 5min, 30min, 5min	Cycle 100 times	0/50
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	High temperature storage	JIS C 7021 (1977)B-11	Ta=60°C RH=90%	1000 hours	0/50
Lifetime Test	Ambient temperature lifetime tests	JESD22-A108-A	Ta=25°C Test Conditions: Power on and lit	1000 hours	0/50
	High temperature lifetime tests	JESD22-A101	Ta =85°C RH=85% Test Conditions: Power on and lit	1000 hours	0/50
Mechanical Vibration Experiments	Mechanical vibration	MIL-STD-883 Method 2007	20G minutes, 20 to 2000Hz4 cycles, 4 minutes. Each,X,Y,Z	---	0/50
<b>LED Finished Unit Cabinet</b>					
Environmental Storage Experiment	Low temperature storage tests	GB2423.2	Storage at (-40±2)°C for 4h, recovery at room temperature for 4 h,normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
	High temperature storage tests	GB2423.2	Storage at (60±2)°C for 4h, recovery at room temperature for 4 h, normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
Ageing Test	Ambient temperature ageing test		Ta=25°C72-hour uninterrupted power-on display playing	72 hours	0/50
	High temperature ageing test	GB2423.2-89	Check every hour for 8h at (40±2)°C.Normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
Mechanical Vibration Experiments	Mechanical vibration	GB6587.4-86	Vibration frequency 5HZ-55HZ-5HZ, amplitude 0.19mm, 5 minutes	5 min	0/50

## Notes

### Using environment

- This product is an outdoor display; avoid using it in high temperature, high acid/alkali/salt environments.
- Keep away from flammable materials, gases and dusts; the normal operating temperature of this product is -20~50°C, the optimal ambient temperature is -10~40°C.
- Avoid storage in high temperature, high humidity, high acid/alkali/salt environment; keep away from flammable materials and gases.
- Avoid strong collisions and sharp objects during transport.

### Operations

- This product is DC +5V power supply (working voltage: 4.5~5.2V), AC power supply is forbidden; power terminals are forbidden to be reversed.
- If the product is faulty during the warranty period, please send it back to our company for repair, or repair it under the guidance of our after-sales staff.
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- the product should not be switched on and off continuously during use; at least 1 minute should elapse between operations
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- This product is not allowed to play the highest brightness all-white screen for more than half an hour, it is recommended to play dynamic video mainly.

### Cleaning

- If cleaning the module surface, please use a soft bristle brush and brush gently. Do not use any liquid substances to clean the surface of the LED module, as this may damage the SMD-LED.

### Moisture-proof and storage requirements

- After opening the package, the product must be stored in the temperature <30°C and humidity <60% environment.
- If the screen is not used for more than 3 days, please use the pre-lighting method first: 30%-50% brightness for 4-8 hours, and then adjust it to normal brightness (80%-100%) to light up the screen, for eliminating the moisture and normal operation.
- If the screen is not used for more than 7 days, please use the pre-lighting method first: 30%-50% brightness for more than 12 hours, and then adjust it to normal brightness (80%-100%) to light up the screen, for eliminating the moisture and normal operation.

- More than 3 days, LED screen (30%-50% in brightness) pre-lit 4-8 hours
- More than 7 days, LED screen (30%-50% in brightness) pre-lit more than 12 hours

#### The operation process is as follows:

