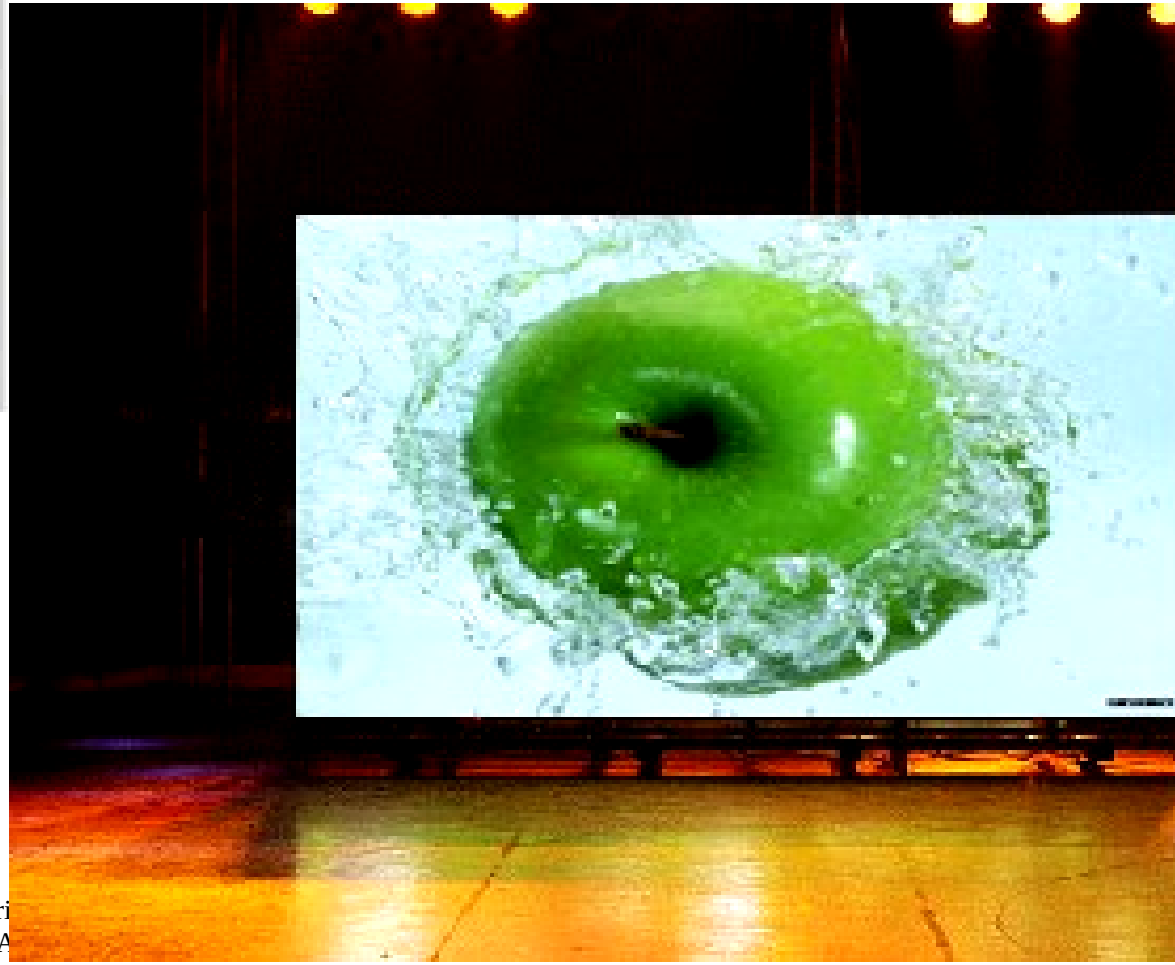
Shenzhen ERALED Optoelectronics Co., Ltd.

Waterproof and Dustproof outdoor LED display

IP 65



IP65 is a hot word when we are talking about the outdoor LED display. IP65 is a standard for outdoor display, it means products can completely prevent dust into and can be rinsed with water without any damage.

IP（International Protection）grade standard is draught out by IEC（International Electro-Technical Commission，aimed to point out appliances equipment's waterproof and dustproof grade. The first marker number refers for dustproof grade; the second one refers for waterproof grade.

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IP Grades Form

Waterproof and Dustproof Grades		
Marker Number	**Waterproof Grades**	**Dustproof Grades**
0	**Unprotected**	**Unprotected**
1	**Prevent more than 50mm solid outside objects invasion**	**Prevent water-drop invasion**
2	**Prevent more than 12.5mm solid outside objects invasion**	**Still prevent water-drop invasion when tilt 15 degrees**
3	**Prevent more than 2.5mm solid outside objects invasion**	**Prevent spraying water invasion**
4	**Prevent more than 1.00mm solid outside objects invasion**	**Prevent splashing water invasion**
5	**Prevent outside objects and dust**	**Prevent jetting water invasion**
6	**Prevent outside objects and dust**	**Prevent surges invading**

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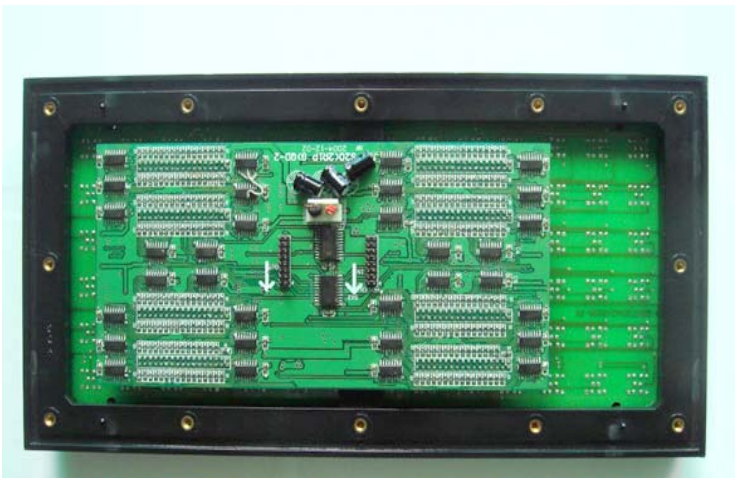
How does our outdoor LED display achieve IP65?

1. The PCB with thick moisture-proof paint for the module's backside waterproof

	
PCB with thick moisture-proof paint	PCB without thick moisture-proof paint

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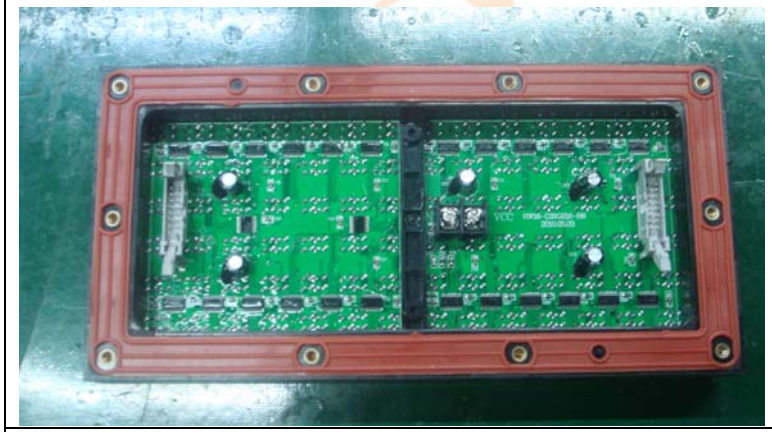
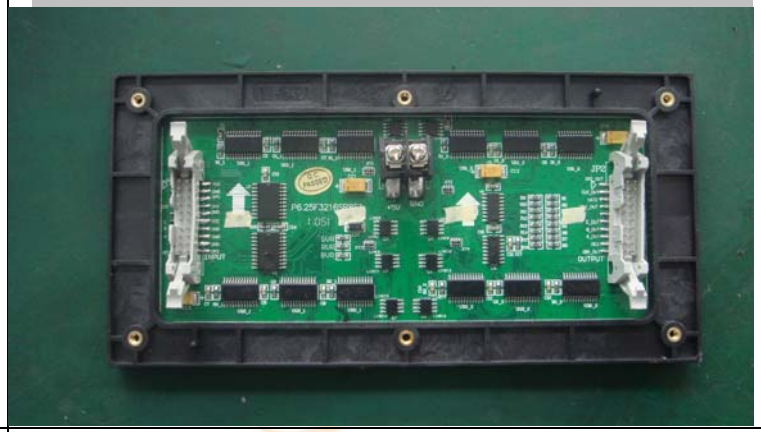
2. Waterproof rubber ring assemble to make prevent LED water flow inside to the PCB board.

	
Module with waterproof rubber ring	Module without waterproof rubber ring

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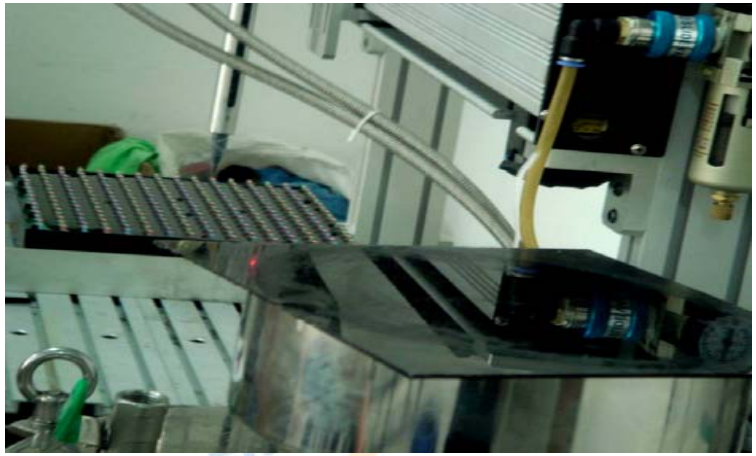
3. Waterproof rubber pouring on the front side of the module to prevent the water low inside the front side of the module:

	
Module is been rubber pouring	Module after rubber pouring

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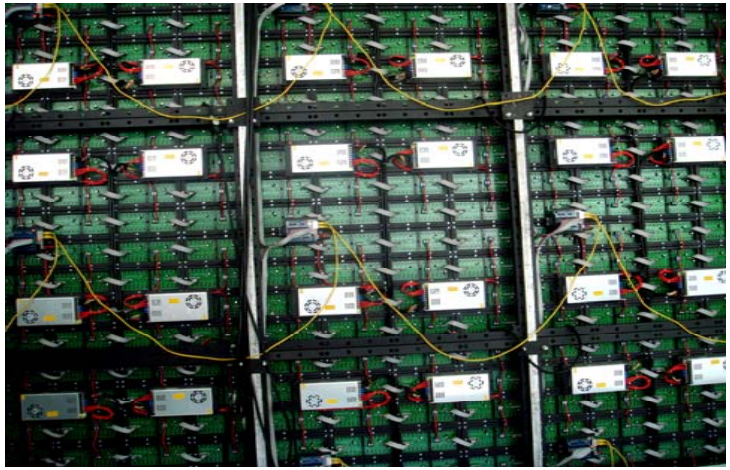
4.Assemble the module with the waterproof cabinet:

	
Waterproof cabinet with backdoor	Simple cabinet without backdoor(not waterproof)

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Waterproof Test

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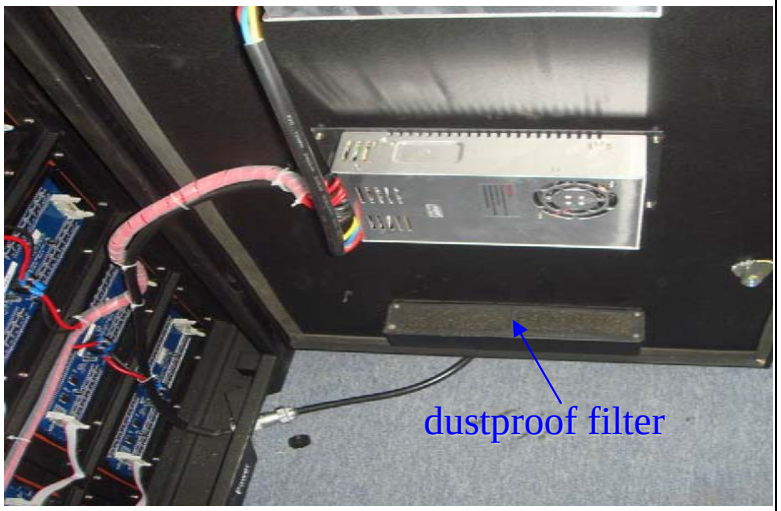
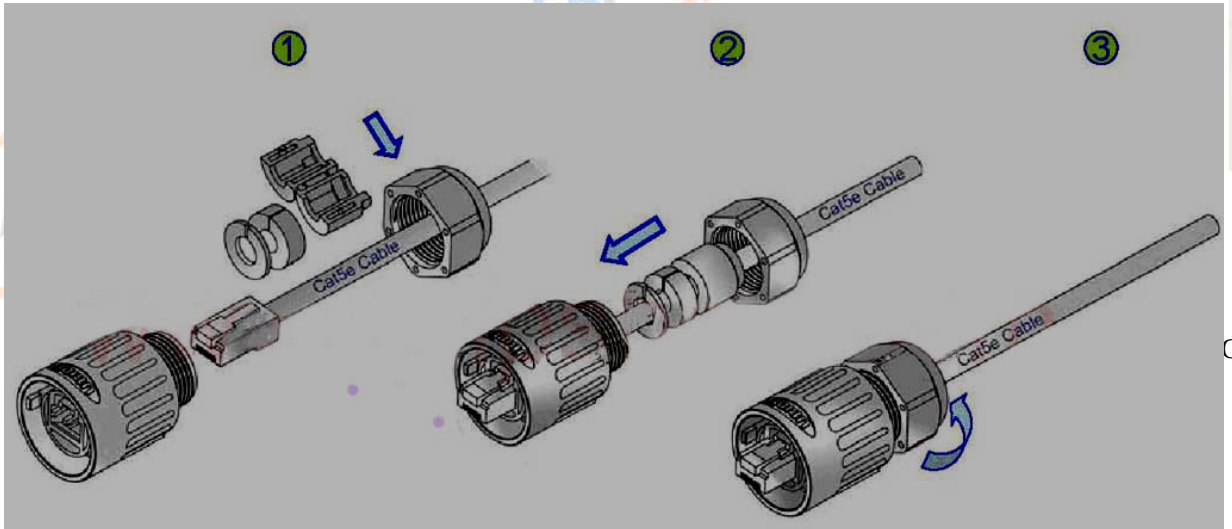


Cabinet with dustproof filter

Waterproof connector



China

Waterproof Test

Shenzh

Thanks for your reading, best wishes from your partner in ERALED!

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