Solar Film Sales Kit

Model: SK1150

User Manual V3.02

Please read this manual carefully before using and reserve it for reference.

I. Product introduction

The solar film sales kit is professionally used to display the infrared rejection performance of light-transmitting materials such as window film and heat insulation glass. Using genuine Philips 150W infrared light source, the heat of the infrared lamp allows the entire display process to imitate sunlight, allowing customers to better experience the heat rejection performance of window film or heat insulation glass and understand the product performance difference.

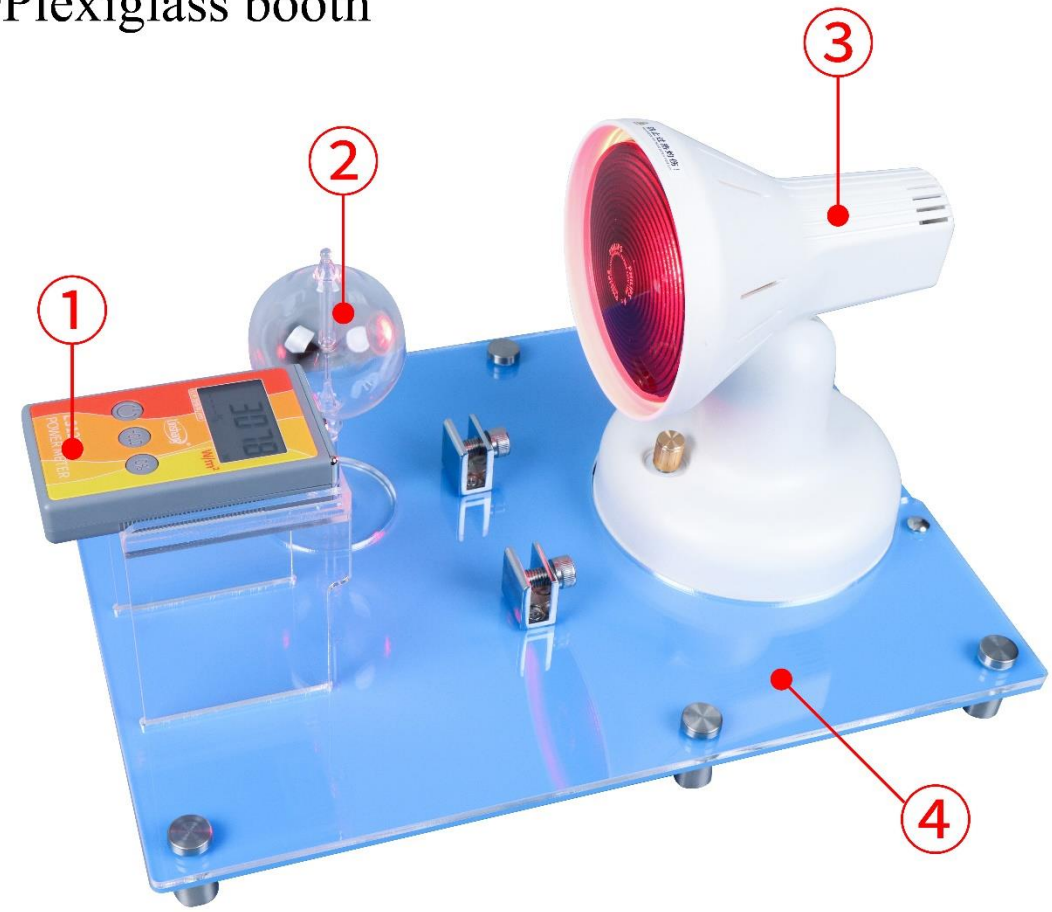
Standards for the product: *GB/T 31849-2015 Film mounted motor vehicle glass*

①LS122 IR power meter

②Glass radiometer

③150W Philips infrared lamp
(Light intensity can be adjusted)

④Plexiglass booth



II. Infrared Rejection Performance Test

Two steps for infrared rejection performance test of window film or heat insulation glass:

Step 1: measure the irradiance of the infrared light source

The infrared light source can be sunlight or infrared light. First measure the infrared irradiance of the light source. In this case, press the "0%" button to set the rejection rate reference value to 0%.

Figure 2. Measure the heat insulation performance of window film

Step 2: Measure the irradiance of infrared rays blocked by the window film

Keep the distance between the infrared light source and the instrument unchanged, put the window film or measured heat insulation glass between the instrument and the infrared light source. When there is test material, the IR radiation irradiance is W_{IR2}, the rejection rate displayed at this time is the infrared rejection of the test material. The infrared rejection rate in Figure 1 above is 53.5%

Infrared transmittance = $W_{IR2}/W_{IR1} * 100\%$ *= 1511/3250*100% = 46.5%*

Infrared rejection rate = 100%-Infrared transmittance = 53.5%

III. Glass Radiometer

1. The glass radiometer is composed of a glass bulb and a base with four blades hanging inside. It is vacuum inside the glass bulb.

2. When the light irradiates the glass radiometer, the blade will rotate and the rotation speed of the blade is proportional to the light intensity.
3. When the infrared light irradiates the glass radiometer, the blades of the glass radiometer will rotate rapidly.
4. When the window film and stick-film glass block the light, the rotation speed of the blades will drop significantly.
5. The rotation speed of the blades can demonstrate the difference in the heat insulation performance of the window film and the stick-film glass.

IV. Packing List

No.	Description	Quantity	Unit
1	Plexiglass booth	1	Set
2	150W Philips infrared lamp	1	pcs
3	IR power meter	1	pcs
4	Glass radiometer	1	pcs
5	User manual	1	pcs

V. Service

1. The instrument has one-year warranty (Except fragile items). If the instrument works abnormally, please send it to our company for maintenance.
2. Provide users with spare parts and lifelong maintenance services.
3. Provide the users with the gauge calibration service.
4. Free technical support for long term.

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