

## SKZ161B Solar radiation simulation Tester--(Wind cooling )

-- Color Fastness to Sunlight and Weather Tester



Used for testing the color fastness-to-light, color fastness-to-weather of various colored textiles in color fastness experiments and also for the testing of the color fastness-to-light, light aging of paint, pigment, coating, rubber, plastic, wood floor, paper and other materials.

### Relevant Standards

GB/T8427(national standards technical committees)

GB/T14576, GB/T15102-2006, GB/T15104-2006, GB/T8430, AATCC TM16, ISO105-B04, ISO105-B02

#### 模拟日光光谱

额定4500W长弧氙灯技术，真实模拟日光光谱

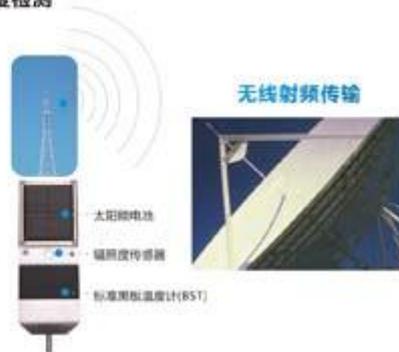


透过石英管的日光光谱与氙灯模拟的光谱对比



正午日光光谱与氙灯模拟的光谱对比

#### 辐照度检测



## Operation interface



## Instrument characteristics

1. Extra large test chamber design and large size sample hanging rail max
2. Digital setting of light intensity, real-time monitoring and automatic adjustment to meet different standards for testing the stability of light source (420nm, 340nm or from 300nm to 400nm waved band monitor optional)
3. The sample is tested with black plate thermometer ( BPT ),black plate standard thermometer (BST),irradiance detector at the same position (in equidistance) to really indicate measuring state of the sample, the tested data is transmitted synchronously by using technology of radio frequency and indicated on the color screen in the forms of digit, chart, curve, etc. after CPU process, without shutdown for observation.
4. Test and radio transmission are powered by using light conversion technology, no additional power supply is required
5. 10.4 inch color touching screen display control and various test monitoring modules (animation, digit, chart) make operation easy, visual and clear
6. With parallel communication interface for print out of A4 sized paper
7. Individual timing of each sample clamp may enable different sample test in a same tester and facilitate test monitor and reduce operation cost
8. specialty long-arc xenon lamp technology adopted to real simulate sunlight spectrum
9. With industrial temperature control (refrigeration) system for smoothly and fast adjusting temperature in test chamber
10. Ultrasonic humidification and professional dehumidification system guarantee the accuracy and stability of testing humidity
11. Natural circulation system and air filter system inside reduces the environmental requirements greatly
12. One test can run for 1000 hour continuously with quality guarantee

## Technical parameters

Test compartment temperature control	30~50℃, Resolution: 0.1 ℃
Storage humidity control test	Light condition:10-65% RH, humidity fluctuations ±3%RH; Dark condition:40-95% RH, humidity fluctuate ± 5% RH;
Time control experiments	0min~999:59h, Accuracy ± 1min
Irradiance control	1-1.5W/m2/420nm Accuracy: ± 0.03W/m2/420nm; digital set, automatic compensation
Control and monitoring wavelength	Optional 340nm, 420nm ,300-400nm ,300-800nm,

Xenon arc lamp rated power	3.5KW
Sample holder rotation speed	5rpm
Maximum exposure area	1170cm <sup>2</sup>
Sample holder can be mounted with the number of dimensions	145 x 75mm model 18; 145 x 45mm model 26
Timing of each sample holder, respectively,	≤10000h
Photoperiod	≤10000h
Spray cycle	≤10000h
Blackboard temperature range	(BPT) 40-75°C±2°C; (BST) 45-80°C±2°C
Display control	10.4-inch touch screen
Data Output	Digital color display (A4 print in English optional)
Sample holder type	Double
Requirements within the recycled water	High water flow: 0.5L/min
Power supply	AC380V±5% 50Hz 6kW
Dimensions	1250×1000×1800mm
Weight	400kg