QINSUN

Stable Reliable Consistent

Bench Xenon Lamp Aging Tester

SUN-master

Bench Xenon Lamp Aging Tester — Material sunlight aging resistance test

The table-top design of the tester is suitable for all laboratories. The tester can expand inspection capabilities with optional accessory water spray, soak, and freeze, and provides an easy way to meet your needs. The cabinet has an exposed area of 1100 square centimeters and is suitable for multi-planar and 3D samples.

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1. The Xenon arc lamp weatherproof test chamber adopts Xenon arc lamps which can simulate the full sunlight spectrum to reproduce the destructive light waves in different environments. It can provide corresponding environmental simulation and accelerated test basis for scientific research, product development and quality control.

2. The test chamber allows the test sample to be exposed to irradiation equaling to summer noon sunlight for 24 hours every day. Therefore, the aging process of test sample can be accelerated; the xenon lamp source simulates the full spectrum of sunlight more realistically and optimally, a stable light source can ensure the comparability and reproducibility of the test data; automatic control of the irradiation energy (the solar eye control system used is more precise and stable) can automatically compensate for changes in irradiation energy caused by lamp aging and any other reasons.
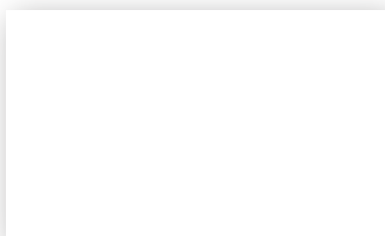
Standards compliant

ISO 11979-5；ISO 4049；ISO 4892-1；ISO 4892-2；ISO 7491；ISO 11431；ISO 10977；
ICH Guideline Q5C；ASTM G155；ASTM G151；ASTM D6695；ASTM D5071；ASTM D3424

SUN-master Bench Xenon Lamp Aging Tester—— Several Major Features

Smart touch screen control panel

Microcomputer control system, more efficient and reliable, programmable 7-inch color LCD touch screen, to achieve control, detection, calculation, data display and other functions.
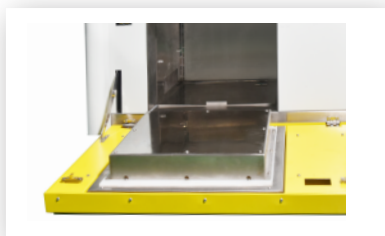
Powerful software features

The enhanced control system can handle complex custom programs and simple pre-programmed tests. The simple icons on the operation page are clear and easy to understand; the irradiance, temperature and humidity can be programmed to change step by step to meet various test requirements of users.

Multi-directional protection design
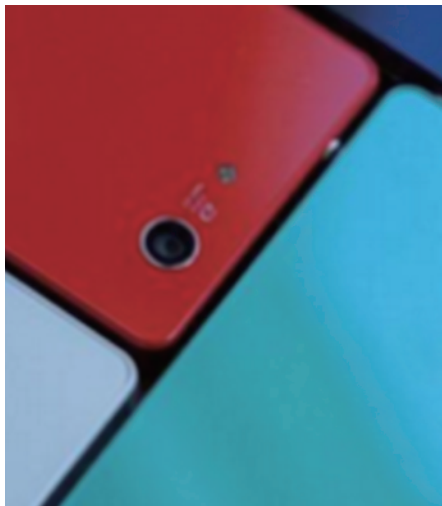
仪器带有温度湿度监控，风量调节，喷淋控制，超温，漏电保护等，确保设备和人员的安全。

Large test area

Imported UV lamp, the experimental box is large, and up to 48 sample holders can be tested at the same time to improve the exposure consistency of all samples.

SUN-master Bench Xenon Lamp Aging Tester—— Field Application

The tester is widely used in packaging, cosmetics, pharmaceuticals and biomedicine, printing inks, industrial fabrics and surface coatings, agrochemicals, building sealants, powder coatings for dental materials.

It is applicable to the performance verification of new products, quality control of the production department, and the of material properties for the third-party testing organization, the product performance verification laboratory, and the quality and technical supervisiondepartment, etc.

SUN-master Bench Xenon Lamp Aging Tester —— Configuration parameter
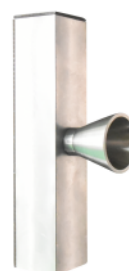
Standard configuration

SUN01

Filter

SUN02

Modulator tube

SUN03

340nm Irradiance monitor

SUN04

Blackboard temperature monitoring

Optional Accessories

SUN05

Box temperature monitoring

SUN06

Quartz filter with infrared coating

SUN07

Quartz filter without infrared layer

SUN08

Sample holder135 x 45mm

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SUN-master Bench Xenon Lamp Aging Tester—— Configuration parameter

Optional Accessories

SUN09

Sample holder310 x 80mm

SUN10

Illuminance420nm
Monitoring points

SUN11

Illuminance300-800nm
Monitoring points

Technical Parameters	
Control mode: automatic	Black label temperature setting range:45-95 ℃ ,
Lamp power:1700W	Black label temperature control accuracy:±2℃
Exposure area:1,100 cm²	Box temperature and blackboard temperature control mode: through the fan
Irradiance monitoring (for 420nm/300-800nm and 340nm lamps): quantitative closed-loop control	
	Lamp life: up to 1500 hours or more
Operation interface: Chinese and English	Weight: 115kg
Blackboard temperature setting range: 45-100 ℃	Power supply: 220V 50Hz
Blackboard temperature control accuracy:±2℃	Appearance size: 100cm×70cm×70cm

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