Intelligent Xenon Aging Tester

BEVS Industrial(Guangzhou) Co, Ltd.

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BEVS 3360

The tester uses an 6500W long arc water-cooled xenon lamp as the light source, which can simulate the full sunlight spectrum. By changing and controlling the irradiance, temperature, relative humidity, spraying, and other methods, simulate the comprehensive conditions of outdoor climate such as light, heat, and rainfall, and conduct artificial accelerated aging tests on the samples. This device complies with multiple test methods such as GB, ISO, ASTM, etc.

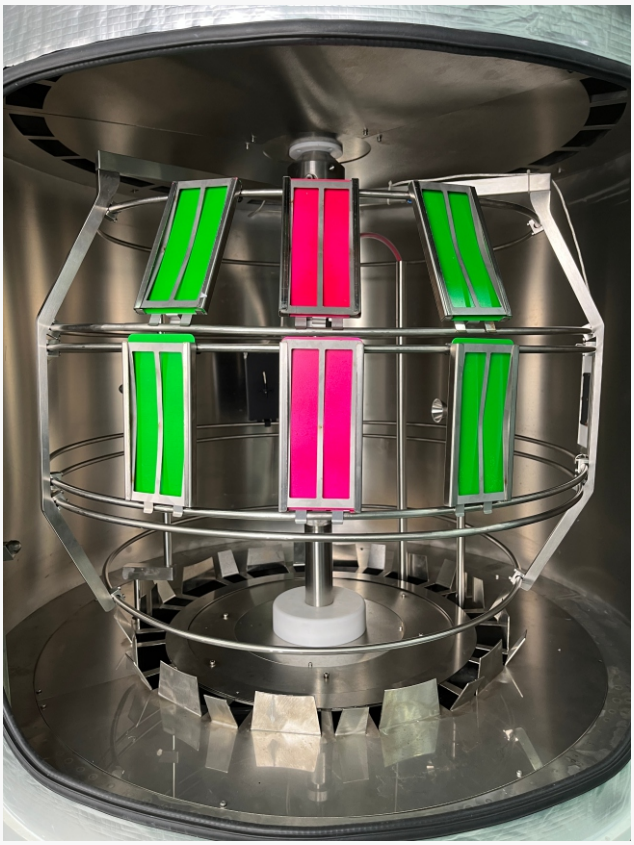
Application

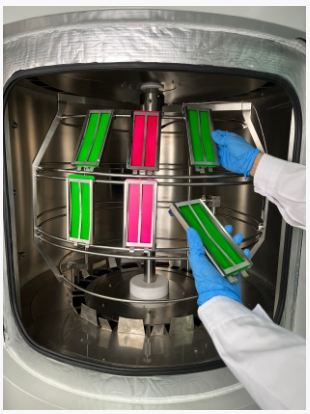
- Used for laboratory light exposure testing of various materials and products such as coatings, plastics, rubber, chemical building materials, automobiles, aviation, military, etc.

- Used for selecting new materials, improving existing materials, or evaluating durability after changes in material composition.

Features

- High-efficiency xenon lamp
- Water-cooled xenon lamps can maximize the simulation of outdoor sunlight spectrum and have a wider irradiation range
- Spectral range 250nm-3000nm
- Special triggering system to enhance xenon lamp lifespan
- Accurate irradiance measurement technology, accurate and reliable
- Unique design for more uniform temperature and humidity
- Ultrasonic humidification system for more precise humidity control
- Powerful software and remote control





Technical info.

Xenon lamp	6.5kw
Lamp shape	Long arc
Cooling	Water
Lamp life	3000~4000h
Spectral wavelength	Option 340nm / 300 ~ 400nm / 420nm
In & out filter	Supports combinations of filters like daylight type, window glass, and UV extension

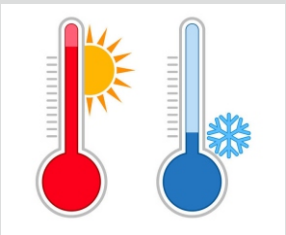
Standard 340nm	0.3 ~ 1.3 W/㎡	Accuracy: ±0.01W/㎡
Option 300~400nm	25 ~ 150 W/㎡	
Option 420nm	0.55 ~ 2.75 W/㎡	

Chamber temp.	+35℃ ~ 85℃	Accuracy: ±2℃
BPT	+40℃~110℃	
BST	+40℃~120℃	
RH under light	10% ~ 75%	Accuracy: ±3%
RH under dark	10% ~ 100%	

Panel rack	67 x panels(145×70mm)
Spray	Auto spray panel front and back
Test method	Editable, 1000 x
Remote control	Remote monitor status and control

Irradiance control

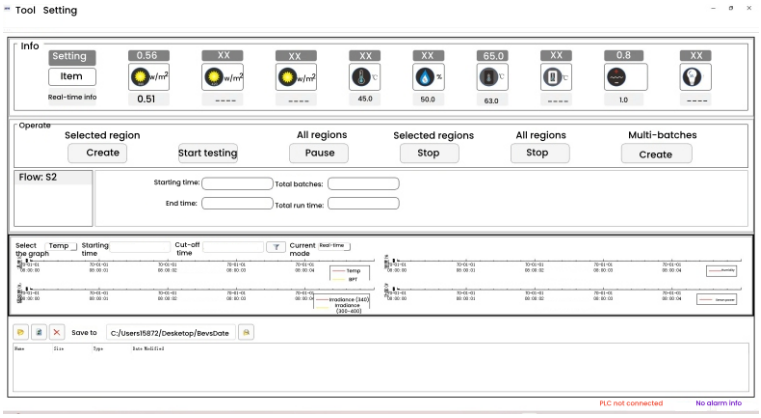
Humiture control



Water spray control

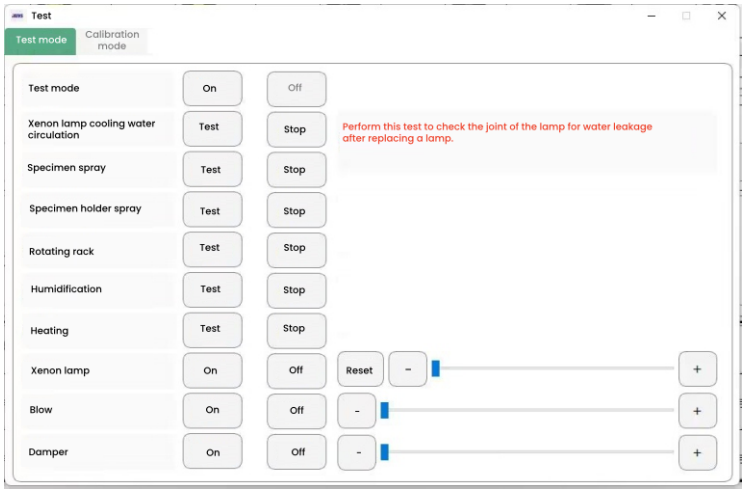
Control system

- PLC controller, automatic control, safe and reliable
- Large touch screen, simple operation and powerful functions
- Real time display and auto control of sample rack temperature (BST, BPT), chamber temperature (DB), relative humidity, irradiance energy, time
- Monitoring status and confirmation of equipment faults
- Setting parameters and program editing
- With alarm and info. display function, and automatic protection for abnormalities
- Simultaneous monitoring multiple batches running
- Automatic recovery from abnormal power outage
- Remote control



Standard

GB	ISO	ASTM		
GB/T 10485	ISO 105-B02	ASTM C1257	ASTM D4434	ASTM D6695
GB/T 12527	ISO 105-B04	ASTM C1442	ASTM D4459	ASTM D6878
GB/T 14522	ISO 105-B06	ASTM C1501	ASTM D4637	ASTM D750
GB/T 16259	ISO 105-B07	ASTM C1519	ASTM D4798	ASTM D7869
GB/T 16422	ISO 105-B10	ASTM C732	ASTM D4811	ASTM D904
GB/T 16991	ISO 11341	ASTM C734	ASTM D5010	ASTM F1164
GB/T 1865	ISO 12040	ASTM C793	ASTM D5019	ASTM F1515
GB/T 18833	ISO 16474-1	ASTM D1148	ASTM D5071	ASTM F2366
GB/T 29061	ISO 16474-2	ASTM D1670	ASTM D5383	ASTM G151
GB/T 32088	ISO 18909	ASTM D2565	ASTM D5398	ASTM G155
GB/T 5137	ISO 18930	ASTM D3424	ASTM D5819	SAE
GB/T 6151	ISO 18937	ASTM D3451	ASTM D6083	AATCC
GB/T 8427	ISO 29664	ASTM D4101	ASTM D6551	Other standards
GB/T 8430	ISO 3917	ASTM D4303	ASTM D6577	
GB/T 3511	ISO 4892-2	ASTM D4355	ASTM D6662	



Climatic test conditions

		Simulated conditions
Inside	Outside	
Borosilicate	Borosilicate	Simulated outdoor climate test
Borosilicate	Soda-lime glass	Through glass (indoor) test
Quartz	Borosilicate glass	Shorter UV energy than sunlight
Filtered infrared glass	Borosilicate glass	Simulate sunlight, but with lower temperatures

Control system

Xenon lamp control

(1) Automatic control of xenon lamp irradiance

(2) Xenon lamp can be triggered 3-5 times in a short period of time

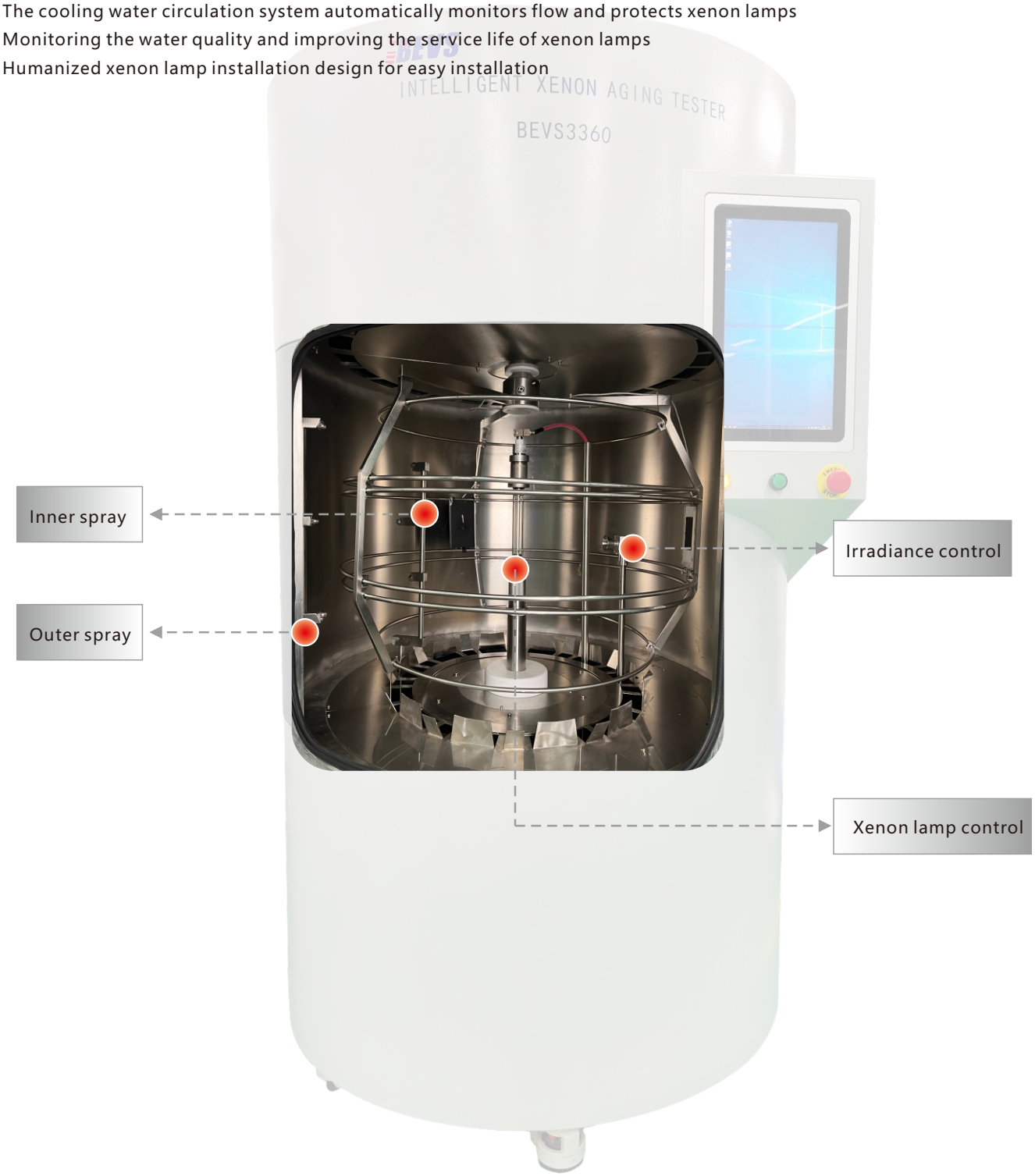
(3) Automatic calibration function, with alarm reminding users every 400 hours

(4) The temperature controller auto controls the cooling water temperature, and automatically shuts down in case of severe overheating

(5) The cooling water circulation system automatically monitors flow and protects xenon lamps

(6) Monitoring the water quality and improving the service life of xenon lamps

(7) Humanized xenon lamp installation design for easy installation

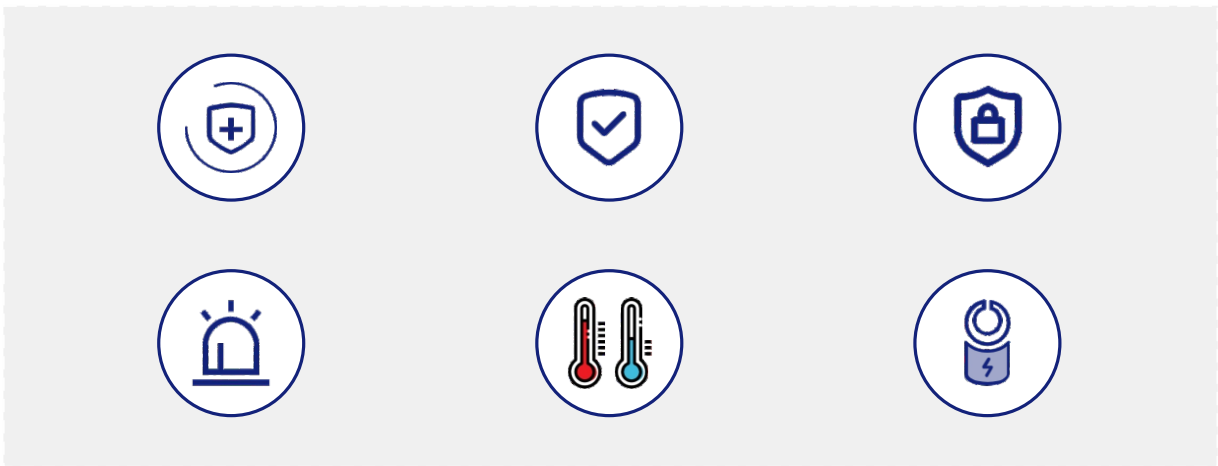


Temp. control

(1) Adopting a damper actuator to control the internal and external circulation of air, automatically adjusting the opening and closing angle of the damper according to the temperature of the chamber
(2) The frequency converter controls the wind speed of the centrifugal fan to control the air exchange between the chamber and the outside
(3) Stainless steel air heating, assisted in regulating temperature

Safety system

(1) Accessories are of high-end materials
(2) Door safety protection
(3) Xenon lamp cooling water shortage and over temperature protection, conductivity protection
(4) Low / high xenon lamp irradiance alarm
(5) Test rack, chamber temperature high / low temperature protection
(6) Leakage, overcurrent and overload protection



Order info.

Model	Name
BEVS 3360	Intelligent Xenon Aging Tester

Global Network

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