GESTER
TOTAL TESTING SOLUTION

Weather Meter GT-3000

Product Presentation

Application

It is widely use in solar radiation simulation light color fastness, light perspiration color fastness and light aging test of rubber, plastic, coating, petrochemical industry, car, textile industrial products and other materials. It through simulate illumination, exposed to the rain, mist spraying, alternating light and dark, temperature and humidity climates conditions to test material products' color fading, aging, transmittance, peeling, hardness, softness and other performance changes.

Sample Example

Painting

Fabrics

Feature

- Presetting various specifications, or customized programs, meet diverse range of standards, including AATCC, ISO, BS, JIS etc.
- 4500W water-cooled xenon arc lamp system, accurately simulate sunlight spectrum. Irradiance auto- compensates system, control irradiance, temperature, and humidity timely through a closed loop.
- Irradiation control, light irradiance sensor monitor, digital setting, automatic compensating system, stepless irradiation regulation.
- Accurate chamber temperature control, irradiation temperature, and heater raise the temperature, air conditioning refrigeration system.
- Ultrasonic humidification system makes spray water even and low noise. Saturated steam humidifying, industrial refrigerating machine dehumidifying, and close loop control the humidity.
- Large amount of testing specimen, be able to hold as 3 times of specimen quantity as air-cooled machine in a test.
- Custom program capability and storage for additional user-defined tests.
- De-ionized water system to ensure purity of cooling water and spray water.
- Each specimen holder has time recorder respectively. Ease to test different specimen in one test.
- Multi-point inspection: malfunction alarm, self-diagnostic function, ease to maintenance.
- Print the test result chart by stylus printer directly. No need support of PC.

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Standards

Textile	GB/T 8430, GB/T 14576, GB/T 8427, ISO 105-B02/B04/B06, AATCC 169, M&S C09 / C09A, JIS L0843
Paint coating	GB/T1865, ASTM D6695, ISO 11341, NES M0135
Rubber & Plastics	GB/T 12831, GB/T9344, GB/T 16422.1, ASTM D2565, ISO 4892
Non-metallic Material	AATCC TM16, ASTM G26, ASTM D4459, ASTM G155, GB/T 2423.24,GB/T 15102, GB/T 15104 Car: SAE J2527, SAE J1885, SAE J2212, SAE J1960, SAE J2412, ISO3917, PV 1303, PV 3929, PV 3930, DVM 0067- MA, HES D6601, TSL 0601G, GMW3414, EDS-T-7415, D47 1431

Key Specification

Model	GT-3000-1	GT-3000-2
Irradiation Source	4500W	
Exposure Area	2660cm²	4700cm²
Sample Holders Capacity	ISO:145×45mm 33pcs Or AATCC:145×70mm 20pcs	ISO:145×45mm 47pcs Or AATCC:145×70mm 35pcs
Average Lamp Life	1000 hours	
Sample Rack Rotating Speed	1-7rpm (adjustment)	
Sample Rack Outside Diameter	Φ550mm	
Chamber Temperature Range	20-93℃ ±1 ℃ Resolution: 0.1 ℃	
BPT	35-125 ℃ ±1 ℃	
BST (Option)	35-120 ℃ ±1 ℃	
Chamber Humidity	Light Cycle: 10-70%RH; Resolution :0.1% Dark Cycle: 30-95%RH; Resolution :0.1%	
Irradiance Control Range	0.6～3.08W/m²@420nm (Option: 340nm, 420nm, 300-400nm and 300-800nm) Accuracy: ±0.02W/m²@420nm.	
	Digital Setting, Closed-loop Automatic Compensation	
Power Supply	AC220V±10% 50Hz 10KW	
Dimensions	1200×900×1800mm(L×W×H)	
Weight	350kg	360kg

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