



COMPLEX ENVIRONMENT TEST EQUIPMENT

EYE 4D MULTI-Chamber

components to European and European car manufacturers.

DIN/MIL-STD/IEC weather resistance standard test compliant

The DIN 75220 weathering test standard is one of the 50 items in the LV 124 standard, components to European and European automobile manufacturers. The test standard established by the German automobile manufacturers' association. It is widely used by automotive component manufacturers who sell





Example specifications (test facilities)

Dimensions inside the tank	1100mm(W)×1000mm(D)×1020mm(H)		
Irradiated area	800mm(W)×800mm(D) Pointing down		
Light source type	DIN 75220-compliant light source unit		
Tank temperature control	Temperature range -45°C to +120°C Accuracy ±1°C		
Tank humidity control	Temperature range 30% to 95% Accuracy ±5%		

1 Important safety information

- •For your safety, be sure to observe the following.
- Read through the Operation Manual prior to use. Always operate in accordance with the Operation Manual
- •For optimum results, use only as directed and for the stated purpose.

Improper usage could lead to serious injury or death.

- Always shut off the power before opening the lid or.
- ●Due to the risk of electric shock and injury, the mains powe box should only be opened by suitably qualified operators.
- Irradiation can harm the eyes and cause skin inflammation During inspection, do not look directly at the lamp or expose the skin to irradiation
- Keep hands away from conveyors and other rotating parts to avoid injury.

Caution

Improper usage could lead to danger with potential for injury or damage.

- The lamp becomes very hot during use. When replacing the lamp, wait until it has cooled down completely to prevent injury or burns.
- ■The power supply and self-ballasted irradiator must be
- used for internal ventilation of the system.
- Keep hands away from moving parts such as the ventilator fan and conveyor motor to avoid injury.
- Do not operate the system if the ambient temperature is 35°C or higher, as this may cause the cooling system to perform a safety shutdown. Contact Iwasaki Electric for
- The operating environment should be relatively free of contaminants such as foreign gases and dust particles, which can cause corrosion or compromise system control







Light-Soaking System

Lighting system for high speed photography

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Accelerated Weather Durability Tester General Catalog

EYE SUPER XENON TESTER UV TESTER



IWASAKI ELECTRIC CO., LTD.









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EYE SUPER XENON TESTER

new XER-W85



SPECIFICATIONS Specifications for EYE SUPER XENON TESTER					
Model			XER-W85	XER-W83-A	
Lamp			Water-cooled 7.5kW xenon arc lamp		
Light source Filters		Inner	Quartz glass (option available)		
	-ilters	Outer	Borosilicate glass (option available)		
Test method			Irradiation, irradiation and spray/dark cycle Combinations are possible. Shower available at any time during irradiation or before or after dark		
Irradiation intensity		Standard irradiation test	_	Control range: 20 to 70W(100W*)/m² Control system: Automatic Measured wavelength range: 300 to 400nm	
		Medium-intensity irradiation test	_	Control range: 40 to 100W/m ² Control system: Automatic Measured wavelength range: 300 to 400nm	
		High-intensity irradiation test	Control range: 60 to 180W/m² Control system: Automatic Measured wavelength range: 300 to 400nm	Control range: 60 to 180W/m² Control system: Automatic Measured wavelength range: 300 to 400nm	
Uniformity			90% or higher		
		Standard irradiation test	_	108 samples [70mm × 150mm] 11340cm ² (including BPT panel)**	
Number of samples and effective irradiation area	Medium-intensity irradiation test	_	90 samples [70mm ×150mm] 9540cm² (including BPT panel)**		
madiation area		High-intensity irradiation test	54 samples [70mm × 150mm] 5670cm ² (including BPT panel)**	54 samples [70mm × 150mm] 5670cm ² (including BPT panel)**	
Temperature contro	ol range	Control range	Irradiation time: 40°C to 110°C (BPT)**		
Humidity control ra	ange	Control range	Irradiation time: 10% to 75%RH		
Power consumption			16kW (three-phase 3W, 200V, 50/60Hz), Input current: 65A	19kW (three-phase 3W, 200V, 50/60Hz), Input current: 80A	
External dimensions			1090mm (W) × 1490mm (D) × 1850mm (H) (not including protrusions)	1400mm (W) × 1600mm (D) × 1850mm (H) (not including protrusions)	
Weight	Weight		Approx. 600kg	Approx. 800kg	

- * Lamp life may be affected when 100W is used.
 ** BPT = Black panel thermometer
- Wet temperature control range depends on test conditions, etc.
 Please note that specifications may change due to continuous system improvement program.

FEATURES

- Pre-set Various Test Standards
- Natural Sunlight Correlation
- Stable Testing without Influence from Ambient Air
- Outstanding Reproducibility
- Capable with ASTM D 7869 (XER-W83A)

Easy Operation and Monitoring



Touch-screen operating panel



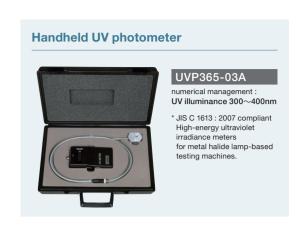
Handheld UV photometer



EYE SUPER **UV** TESTER

new





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Model		SUV-W171	
Light source		Water-cooled 6kW metal halide lamp	
Test case		Irradiation, condensation, darkness, showers	
UV irradiation intensity		150mW/cm² (maximum)*	
Uniformity ratio		90% or higher	
Temperature control range	Irradiation period (BPT)**	50 to 85°C RH (room temperature: 20°C)	
	In darkness (temperature in chamber)	35 to 75°C RH (room temperature: 20°C)	
Humidity control range	Irradiation	40 to 70% RH (BPT 63°C)**	
	Dark hour	50 to 90% RH (tank temperature50°C)	
Effective irradiation area		96000mm² (480mm × 200mm)	
Power consumption		14kW (three-phase 3W, 200V, 50/60Hz)	
		Input current: 50A	

- * Value specified by the JIS standard (100mW/cm2 for conventional photometer (UVP365-01)).
- Wet temperature control range depends on test conditions, etc.
 Please note that specifications may change due to continuous system improvement program.
 Contact us for other specifications. A "drain pan" for preventing water leakage is available.

1350mm (W) × 1200mm (D) × 1800mm (H) (not including protrusions)

FEATURES

- Automated UV Irradiation Control
- Easy to Maintain

External dimensions

Weight Interface

- Simple Form, Intuitive Operation
- Reduces Running Costs
- Easy check of UV Irradiation
- Supports Diverse Irradiation Conditions

Providing correlated acceleration factors more than 10 times typical weatherometer systems, the EYE Super UV Tester greatly increases the efficiency of research and development, quality control, and process control in the development and manufacture of plastic, paint, ink. pigment, textiles and other materials. Uniform irradiation of high intensity ultraviolet light ensures accurate and fast weather durability assessment.

Example of color differences in paint

EYE SUPER UV TESTER Xenon 1000 42 42 Sunshine weather meter 1000 Outdoor exposure 10000 420

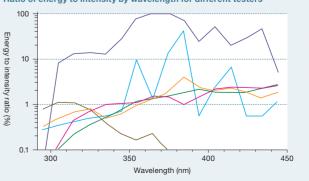
30 times or greater UV irradiation intensity than conventional wheathermeters. Unprecedented test speeds.

USB flash drive

The EYE Super UV Tester uses a proprietary high output UV lamp that generates ultraviolet light very efficiently. Its UV irradiation intensity is 30 or more times greater than that of sunlight and conventional wheathermeters. For even greater solar correlation, UV radiation below 295nm is removed from the light source by our custom-made filter.

Natural sunlight reaching the ground does not include wavelengths below 295nm. By eliminating wavelengths below 295nm, the system creates a test environment that approximates outdoor exposure and provides accelerated degradation results similar to those obtained under natural sunlight.

Ratio of energy to intensity by wavelength for different testers



EYE SUPER UV TESTER

Natural Sunlight

Typical weatherometer

Ultraviolet carbon arc

Xenon

Low pressure UV tester







