

## UV Weather Resistance Test Chamber iUV-K400



### UV Descriptions:

UV Weather resistance test chamber is equipped with fluorescent UV lamp which can completely simulate the UV spectra of sunlight, exposes materials to alternating cycles of UV light and moisture at controlled, elevated temperatures. It simulates dew and rain with condensing humidity and/or water spray.

Weather resistance test chamber is the world's most widely used weathering tester to test types of damages include color change, gloss loss, chalking, cracking, crazing, hazing, blistering, strength loss and oxidation.

### UV Models

#### Model UV/basic

UV/basic uses fluorescent UV lamps and a condensation system for moisture simulation, does not include the SOLAR EYE irradiance control.

#### Model UV/se

UV/se is the most popular model features the SOLAR EYE Irradiance Control, for precise maintenance of UV light intensity. The UV/se tester uses a proven condensation mechanism to simulate outdoor moisture attack.

#### Model UV/spray

The UV/spray has the same functions as a standard UV/se, but also includes a water spray system. Short periods of spray can be used to create a thermal shock. Longer periods can be used to achieve mechanical erosion.

#### Model UV/cw

Some industry test methods specify the use of cool white fluorescent lamps for indoor photostability testing. To reproduce these indoor light conditions, the UV/cw uses ordinary cool white fluorescent lamps. It has a SOLAR EYE irradiance control system that monitors and controls visible light output, rather than UV.

[www.iqualitrol.com](http://www.iqualitrol.com), [sales@iqualitrol.com](mailto:sales@iqualitrol.com)

UV Weather resistance test chamber conform testing standards:

ASTM D4799  
 ASTM D6662  
 ASTM G154  
 ASTM D4587  
 EN 927-6  
 ISO 11507  
 ISO 4892-3  
 SAE J2020  
 J15 K 5600-7-8  
 AATCC TM186

#### UV Lamps Type:

UVA-340: Especially suitable for comparison tests of the different formulations. Recommended for most plastics, textiles, paints, pigments, and UV stabilizers and other products testing, as also outdoor test results correlation test

UVB-313EL: Suitable for the quality control and research, development applications, recommended for the testing of some durable materials, such as roofing paint.

QFS-40 (F40 UVB): Test the vehicle exterior paint.

UVA-351: Suitable for the glass solar UV simulation, Recommended for use in automotive interior parts, textiles and ink testing.

#### Specification:

Interior dimensions	1150×400×400 (D×W×H) mm
Exterior dimensions	1312×1500×500 (D×W×H) mm
Controller	LCD touch screen control, programmable of temperature, humidity, UV (sun), spray (rain) and time. Maximum 999 cycles.
Temp. Range	RT+10°C~70°C
Humidity Range	≥95% R.H
Temp. Resolution	≤±0.5°C
Temp. uniformity	≤±2°C
Humid. fluctuation	≤±2%
Humid. uniformity	≤±2%
Blackboard temperature	63°C~83°C±0.3°C
Distance between Lamps	70mm
Distance of Lamps and samples	50mm
Lamp power	40W
UV wavelength	290nm~400nm
Specimen standard dimension	150×75 (mm)
Number of specimens	48 pcs
Range of radiation	0.5-0.83w / m <sup>2</sup> /nm