

LIGHT FASTNESS TESTER

# SUN LAB & XENON LAB



Compact and user-friendly bench-top instrument designed to test **color fastness to light exposure**.

The built-in 1500W Xenon air-cooled lamp replicates the complete sunlight spectrum.

Irradiance uniform distribution along the specimen is fundamental. This irradiance uniformity is guaranteed by a curved reflectance chamber with the Xenon lamp in the focus (according to main International Standards, sample rotation is not necessary to guarantee irradiance uniformity).

It is endowed with a PLC, to monitor the test parameters duration and to adjust the lamp irradiance level.

Samples are placed into the test area and are exposed to irradiance for the time requested by the Standard as well as at some intermediate steps.

According to the specific method, the assessment is carried out comparing the exposed sample with the reference one (blue scales and/or grey scales).

# SUN LAB CODE 325A XENON LAB CODE 325E



## TECHNICAL FEATURES

	Sun Lab Code 325A	Xenon Lab Code 325E
Air-cooled Xenon lamp, 1500 W; expected working life: about 1500 hours	✓	✓
Standard soda-lime UV glass filter with IR treatment (for infrared rays reduction) to simulate the exposure of textile samples behind the window glass indoor, Code 325.34 (other filters are available on demand as optional accessory)	✓	✓
Irradiance test area, 20x32 cm	✓	✓
Irradiance level control and adjustment by means of a potentiometer. Irradiance range: from 250 to 1100 W/m <sup>2</sup> , in the spectral range 290 - 800 nm. One hour at irradiance 550 W/m <sup>2</sup> in Europe is equivalent to 24 h of sunlight exposure	✓	✓
UV sensor to control the irradiance stabilization	✓	✓
Potentiometer for irradiance level setting, and timer/hour-counter with digital selection of test duration (time setting up to 999 hours and display of elapsed test time)	✓	✓
Testing area (horizontal specimen holder): 200 x 280 mm	✓	✓
Inlet and exhaust air filters for lamp cooling in the testing chamber	✓	✓
Stainless steel sample holder, set of 3 pcs	✓	✓
Gas discharger (spare part)	✓	✓
Humidity control and adjusting system from 30% up to 90% RH. Actual relative humidity can be viewed on display		✓

## DIMENSIONS / POWER SUPPLY, SUN LAB

Weight: 30 kg  
 Dimensions: (L) 750 x (W) 390 x (H) 400 mm  
 Power supply: 230 Vac, 50/60 Hz, single-phase

## DIMENSIONS / POWER SUPPLY, XENON LAB

Weight: 60 kg  
 Dimensions: (L) 790 x (W) 510 x (H) 780 mm  
 Power supply: 230 Vac, 50/60 Hz, single-phase

## REFERENCE STANDARDS

	Sun Lab Code 325A	Xenon Lab Code 325E
UNI EN ISO 105 B01	✓	✓
AATCC 16.1	✓	✓
GB 8430	✓	✓
JIS L0843	✓	✓
UNI EN ISO 105 B02		✓
UNI EN ISO 105 B04		✓
UNI EN ISO 105 B06		✓
AATCC 16.3		✓
AATCC 169 Option 3		✓

## OPTIONAL ACCESSORIES

Set of Blue standard Scale for light fastness (50 pcs)	Code	325.2
Reference fabric for Humidity Test Control (Htc), 25 x 15 cm	Code	325.30
Grey Scale, A02 type, for colour change testing	Code	267C
AATCC Grey Scale, for colour change testing	Code	267D
GB-T 250 Scale, for colour change testing	Code	267F
Gas discharger for ignition (spare part)	Code	325.68
UV multimeter, radiometer and thermometer, battery-powered	Code	325.76
BST "Black Standard Thermometer" sensor (only if combined with the "UV multimeter", Code 325.76)	Code	325.32
Set of 3 steel sample holders	Code	193A.100
Set of air filters (spare parts)	Code	325.14
Other filters available:		
UV+ IR outdoor	Code	325.38
UV Outdoor	Code	325.42
UV indoor	Code	325.46
Calibration report	Code	325.CC1
Water softening medium, container 25 liters, (only for Xenon Lab)	Code	325E.8

Photographs and descriptions of the present leaflet have to be considered as purely indicative and not binding