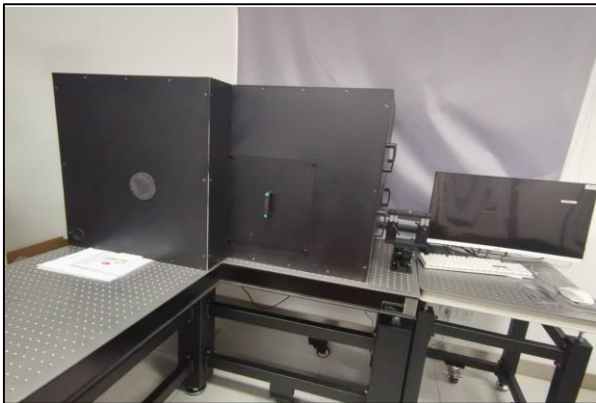


ZH100 UV Camera Calibration Station



ZH100 UV calibration station is a set of comprehensive testing equipment used to test the UV camera's core performance including optical performance, UV sensitivity and out-of-band rejection performance. At present, the consistency test method for the optical performance of UV camera is relatively simple, and the error rate is high; and there is no complete and detailed test method and calibration system for the UV sensitivity and out-of-band rejection performance of UV camera. ZH100 developed by UVIRSYS includes specific integrating sphere uniform light source (characteristic UV and visible), collimator, UV light intensity meter and background light detector, vibration isolation testing platform, black box and software.

High performance background light detector

High sensitivity background light detector detects background light intensity. The detector has large receiving area, and it is easy to use.

The parallel light tube to simulate infinite distance

Through the frame objective lens, lens tube, all kinds of dividing plates and various color filters, uniform illumination can be achieved; through the use of focal plane, high-quality parallel beam is obtained, which is equivalent to the beam from infinity.

High precision UV intensity meter.

UV intensity meter is used; the spectrum and angle characteristics are strictly calibrated; stable; the microcomputer technology is adopted, with high precision and low power consumption; digital LCD with backlight; separated probe easy to replace; 10 groups of data can be circularly stored; digital holding function; lock the data, and facilitate the recording and comparison; Automatically shutdown.

Multi stage uniform attenuation device.

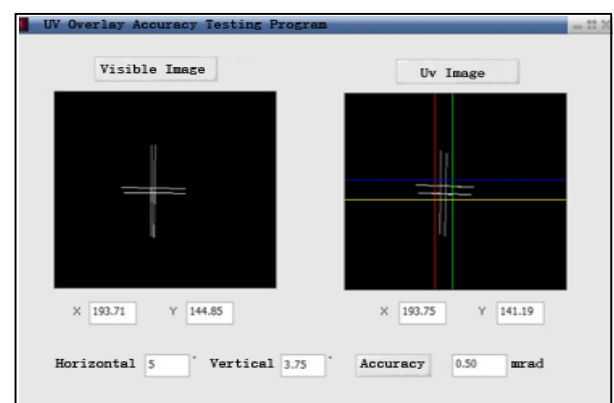
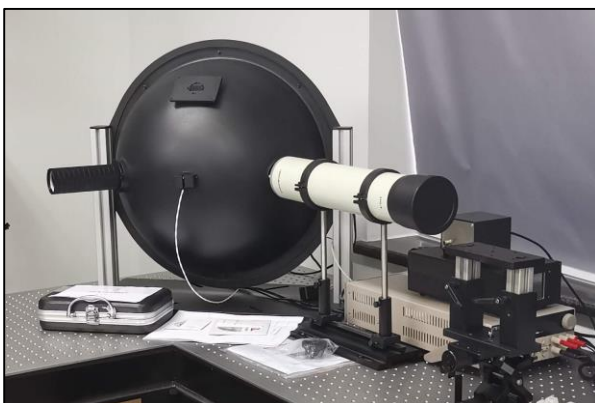
A 50mm multi-stage attenuator is used to attenuate the UV light, so as to obtain different intensity UV test light. Easy to install, increase or decrease; save time and effort.

Uniform light source with specific integrating sphere

Stable wide spectrum light source is used to simulate the sunlight environment; electric controller adjusts the size of electric slit to change the luminance of the light source. The UV characteristic LED light source with manual diaphragm can adjust the brightness of the UV light source.

Honeycomb optical vibration isolation test platform.

The honeycomb structure inside the test platform is used to improve the vibration isolation performance. It greatly reduces the weight while the rigidity is increased, which ensures good mechanical stability and damping.. The magnetic stainless steel surface is ground to improve the flatness. The foundation of test platform adopts composite solid damping vibration isolation. Stable and reliable.



ZH100 UV Camera Calibration Station Specification

Integral sphere	
Diameter	500 mm
Exiting light distance	50mm
Appearance	98 coating
Light Source	
Wavelength	260-1100nm
Control method	Diaphragm manually control the light intensity
Light source properties	Dual light source of deuterium tungsten lamp
Collimator	
Focus Distance	600mm
Exiting light diameter	130mm
Shape accuracy	better than $1/6\lambda$ (Center), $1/4\lambda$ (Fringe Region)
Parallel line of exiting light	better than $10''$
UV light intensity meter	
Spectrum	UV250-410nm
Central wavelength	365nm
Resoulution	$0.01\text{mW}/\text{cm}^2$
Range	$0-1999\text{mW}/\text{cm}^2$
Adjustable optical attenuator	
Diameter	50mm
Installation	manually
No. of attenuator	10 pcs
Single stage transmittance	0.01
Monochromator	
No. of gratings	Double grating
Scanning method	Automatically
Star dot board	
Diameter	100um
Background light detector	
Wavelength response value	200-1100nm
Data acquisition	
Data acquisition system	Picoammeter, counter

Speciations are subject to changes without notice. The imagery used for illustration purposes only. Copyright UVIRSYS Rev 21.1