A

Full-spectrum Transmittance Measure Unit

ATGX500

Features:

- Non-Destructive, Fast Detect & Identify, One-touch Operation;
- Broad spectrum range: 200nm-2500nm;
- Different modes for different material;
- Flexible transmission measurement Solution, Capable for entire spectrum transmittance ;
- High-precision, fast detection , high stability
- Wavelength Repeatability: 0.1nm;
- High SNR, Minimize stray light;
- SNR: ≥1000 : 1;
- Short detect time;
- Adjustable measuring spot, suitable for samples of different sizes;
- High measurement accuracy, detection error < 0.2%;
- Suitable for online detection.

Application:

- IR hole of mobile phone cover
- Transmittance measurement of various films
- Flash aperture transmittance measurement
- Transmittance measurement of coated mirror, glued mirror, parallel plate
- Transmittance measurement of solar film and filter
- Condensing glass, ground glass, lens
- Detection and analysis of jewelry and coating
- Lens transmittance measurement

Description:

- ATGX500 is a new full-spectrum transmittance measurement system launched by Optosky. A instrument with high accuracy, easy operation, Low price. Capable for transmittance of the full spectrum, has the characteristics of fast, simple and accurate. It can quickly detect the transmittance of mobile phone panels and various transparent and translucent products, suitable for optical, chemical and other industrial and scientific research fields!
- Advanced spectrometer for spectrum detection and reception, and a built-in homogenization system is used to shape the transmitted spectrum. Adjustable detection spot, Matches for different sizes of samples. With more reliable measurement accuracy than single-point measurement.
- Simple interface can be operated by technical and non-technical personnel. With high accuracy, consistency and reliability of the experimental results

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• Full-spectrum Transmittance Measure Unit				
Mode	ATGX500	ATGX500-I	ATGX500-II	ATGX500-III
Interface	SMA905	SMA905	SMA905	SMA905
Wavelength range	200-1000nm	200-1000nm	200-900nm	900-2500nm
Detector	HAMAMATSU back-thinned CCD	HAMAMATSU back-thinned CCD	HAMAMATSU back-thinned CCD	InGaAs detector
Resolution	2048 x 64	2048 x 64	1044 x 64	256 to 512
TE cooled CCD	Un-cooled	cooled	cooled	cooled-20°
Feature	Cost-effective	High stability	Long integral time high stability	High sensitivity
SNR	＞600:1	＞1300：1	＞1000:1	＞3000：1
Wavelength accuracy	1-3nm	1-3nm	1-3nm	1nm-5nm
Dimension	≥Φ1.5mm			
Test angle	0° incident angle			
Single sampling time	＜1s			
Detection accuracy	＜1%	＜0.4%	＜0.2%	＜1%
Wavelength Repeatability	0.1nm	0.1nm	0.1nm	0.1nm
Light source	Deuterium Halogen and Pulsed Xenon(Optional)			
Light source life span	2000 h			
System/Interface	Windows , USB2.0			

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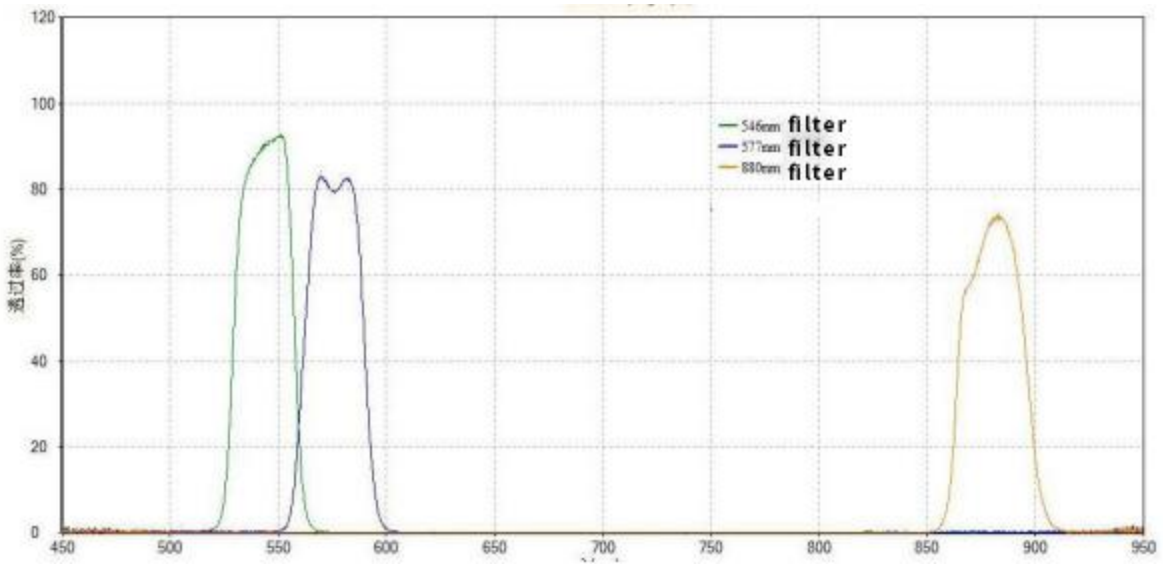
power	220V	
Dimension	345*290*260mm	
weight	5.35KG	
Store temperature	-20°C to +70°C	
Working temperature	-10°C to +40°C	

Fast and flexible spectrum detection, the spectrum data and spectrum of any wavelength of the sample can be obtained within 1 second, which can be used for real-time and online detection.



Application:

ATGX500 is a set of full-wavelength 0-degree transmittance meter covering 200-2500nm. It can quickly and accurately measure the transmittance of various flat optical components. It can be used for real-time online inspection to achieve full product inspection. It is suitable for the detection of flat optical elements such as prisms, coated mirrors, glued mirrors, parallel plates, solar films, and filters.

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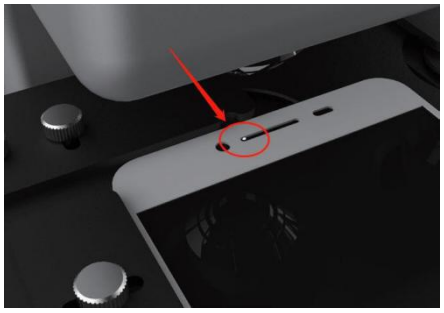
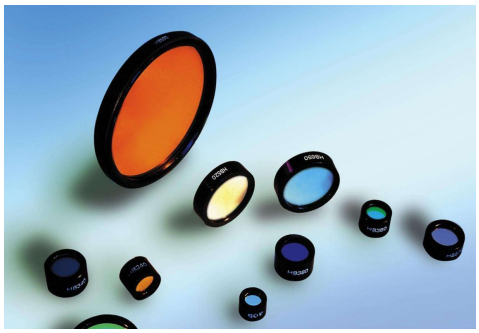


IR hole of mobile phone panel

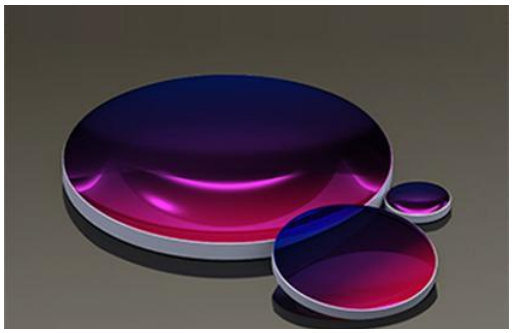
Coating transmittance test

Various types of glass

Jewelry diamond



Filter



Lens transmittance test

Lens transmittance test

Film transmittance test