

Halogen Light Source

ATG1110

Features

- Constant current drive with high stability, drift less than 5‰ per hour
- Lifespan of up to 5,000 hours
- Replaceable light source: Users can replace the bulb themselves
- Motorized aperture for easy dark current collection
- Adjustable light intensity: Manual control of illumination strength
- Waveform optimization function to enhance energy in infrared and ultraviolet bands
- Compact size
- Broad spectrum range: 360–2500 nm
- High blue light output: 2x the energy of conventional halogen lamps in the 350–500 nm range

Application

- Industrial lighting
- Reflection and transmission spectroscopy measurements
- Irradiation standard light sources
- Visible and infrared spectroscopic analysis
- Water pollution analysis

Description

Optosky's ATG1110 features a replaceable halogen light source that utilizes a spectral-grade specialized halogen bulb with improved filament encapsulation, ensuring a longer lifespan and effectively reducing the frequency of bulb replacements. The halogen light source employs high-performance bulbs originally imported from Germany's Osram, offering advantages such as high luminous efficiency, compact size, ease of control, excellent color temperature and color rendering, long lifespan, minimal light decay, and high output power. It is widely suitable for traditional desktop spectrometers and portable miniature spectrometers for field use.

The ATG1110 bulb light source can be replaced by users and allows manual adjustment of light intensity. The ATG1110Pro model features waveform optimization for silicon-based detectors, enhancing relative energy in the ultraviolet and near-infrared bands, resulting in superior testing performance. It is ideal for applications such as industrial lighting, reflection and transmission spectroscopy measurements, and irradiation standard light sources.

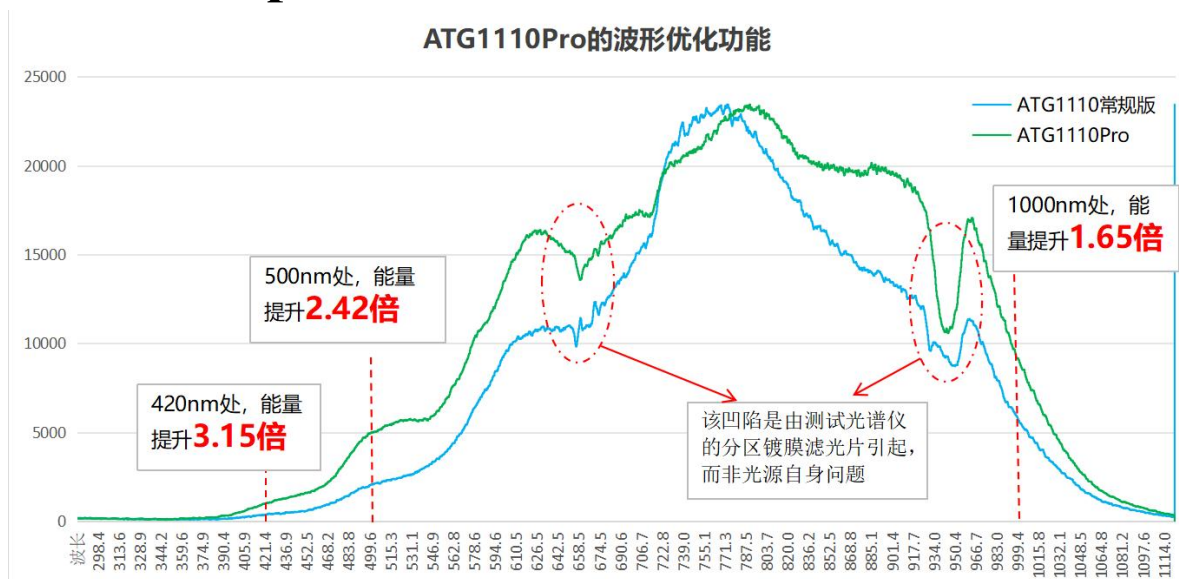
Model	Features
ATG1110	Standard model: Replaceable bulb
ATG1110Pro	Enhanced model: Waveform optimization for improved ultraviolet and infrared performance; motorized aperture for easy dark current collection



1. Parameter

Parameters	ATG1110	ATG1100Pro
Power	20、50、100W optional	
Power adjustment range	1%-100%	
Replaceable light source	Yes	
Light source lifespan	5,000 hours	
Light output drift	<5‰ per hour	
Built-in aperture	No	Yes
Waveform optimization function	No	Yes
Operating temperature	-20~45°C	
Size	250X100X160 mm	

2. Test Report



3. Physical Image



Figure 3: Physical image of the ATG1110

4. Accessories

Standard Accessories	
1	Power adapter
Optional Accessories	
1	Adjustable optical attenuator
2	30W halogen bulb
3	50W halogen bulb