

Tunable Monochromatic Light Source

ATG3200

Features

- Band: 350-2500nm.
- Supports two working modes: high resolution mode and low resolution mode.
- Ultra long life: >4000 hours.
- High stability, no more than 2% drift per hour.
- Small volume.
- Warm-up time: 30 s.
- Light efficiency: 61.451 lm/w.
- The lighting position is precise, the position is ± 0.127 .
- Light intensity output: 0-100% linear adjustment.

Application

- Online spectral measurement
- Online absorbance analysis
- Online reflectivity analysis
- Automated industry
- Photoelectrochemical testing

Description

ATG3200 is a monochromatic light source that adjusts the output wavelength based on a monochromator and combines different optional light sources. It has the characteristics of wide operating band range, strong energy, good monochromaticity, and strong flexibility. Its light intensity and stability mainly depend on the stability of the light source itself.

ATG3200 adopts ATP7330-FL210 high stability monochromator carefully developed by Optosky, which adopts a typical asymmetrical non-crossed spectroscopic light path and has two built-in gratings with different line numbers. By selecting different gratings, the ATG3200 can work in high-resolution spectroscopic mode or low-resolution spectroscopic mode.

The working band of the ATG3200 light source mainly depends on the selected light source, and has a perfect spectral curve. ATG3200 can perform SMA905 output light or free space output. It has been precisely adjusted to connect to the optical fiber with maximum light flux.

ATG3200 can realize any adjustment of the output wavelength and is easy to control. It can be widely used as a light source for various optical experiments.

Model	Feature
ATG3200	Equipped with a general resolution monochromator, focal length 210mm
ATG3300	Equipped with high-resolution monochromator, focal length 350mm



1. Selection and parameter table

Model	Light source	Instability	Spectrometer focal length	Monochromatic light spectral range	Grating	Scope of use	Bandwidth	Wavelength accuracy	Wavelength Repeatability
ATG3200-X75A	75W xenon lamp	1%	210mm	200-1000nm	Grating 1	200-600nm	0.15-10nm	±0.2nm	0.1nm
					Grating 2	350-1000nm	0.3-23nm	±0.4nm	0.2nm
ATG3200-X150A	150W xenon lamp	1%	210mm	250-1000nm	Grating 1	250-600nm	0.15-10nm	±0.2nm	0.1nm
					Grating 2	350-1000nm	0.3-23nm	±0.4nm	0.2nm
ATG3200-X150AU	150W UV xenon lamp	1%	210mm	200-1000nm	Grating 1	200-600nm	0.15-10nm	±0.2nm	0.1nm
					Grating 2	350-1000nm	0.3-23nm	±0.4nm	0.2nm
ATG3200-X300P	300W xenon lamp	—	210mm	300-1000nm	Grating 1	300-600nm	0.15-10nm	±0.2nm	0.1nm
					Grating 2	350-1000nm	0.3-23nm	±0.4nm	0.2nm
ATG3200-X300PU	300W UV xenon lamp	—	210mm	200-1000nm	Grating 1	200-600nm	0.15-10nm	±0.2nm	0.1nm
					Grating 2	350-1000nm	0.3-23nm	±0.4nm	0.2nm
ATG3200-X500A	500W xenon lamp	—	210mm	250-1000nm	Grating 1	250-600nm	0.15-10nm	±0.2nm	0.1nm
					Grating 2	350-1000nm	0.3-23nm	±0.4nm	0.2nm
ATG3200-EQ77	EQ77 light source	1%	210mm	200-1000nm	Grating 1	200-600nm	0.15-10nm	±0.2nm	0.1nm
					Grating 2	350-1000nm	0.3-23nm	±0.4nm	0.2nm
ATG3200-EQ99	EQ99 light source	1%	210mm	200-1000nm	Grating 1	200-600nm	0.15-10nm	±0.2nm	0.1nm
					Grating 2	350-1000nm	0.3-23nm	±0.4nm	0.2nm
ATG3200-T150A	150W bromine tungsten lamp	1%	210mm	400-2400nm	Grating 1	400-1100nm	0.15-10nm	±0.2nm	0.1nm
					Grating 2	800-2400nm	0.3-23nm	±0.4nm	0.2nm
ATG3200-T250A	250W bromine tungsten lamp	1%	210mm	350-2400nm	Grating 1	350-1100nm	0.15-10nm	±0.2nm	0.1nm
					Grating 2	800-2400nm	0.3-23nm	±0.4nm	0.2nm
ATG3200-SiN40	40W infrared light source	1%	210mm	1.1-8um	Grating 1	1.1-4um	3.7-100nm	—	—
					Grating 2	2.5-8um	3.7-100nm	—	—

2. Output spectral power curve

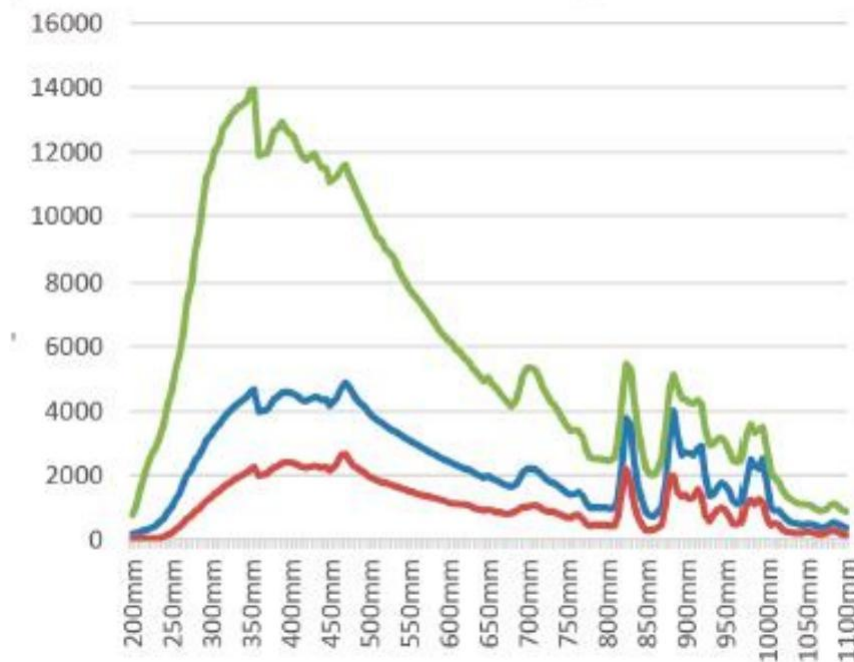


Figure 1 Output power curve of ATG3200-X75, ATG3200-X150, ATG3200-X300 in high resolution mode (Grating is 1200 lines).

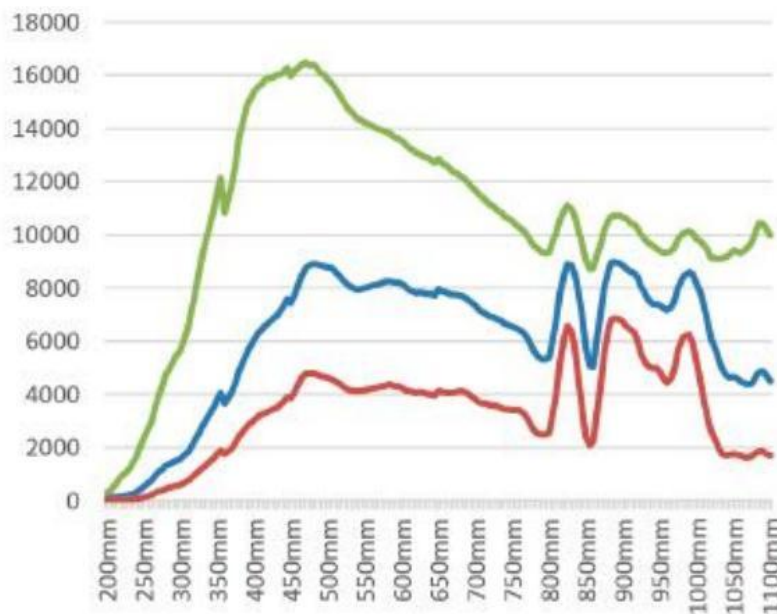


Figure 2 Output power curve of ATG3200-X75, ATG3200-X150, ATG3200-X300 in low resolution mode (Grating is 600 lines).