

Tunable Monochromatic Light Source

ATG3300

Features

- Band: 350-2500nm
- Supports three working modes: High resolution mode, medium resolution mode, low resolution mode
- Super long life: >4000 hours
- High stability, no more than 1% drift per hour
- Small volume
- Warm-up time: 30 s

Application

- Online spectral measurement
- Online absorbance analysis
- Online reflectivity analysis
- Automated industry
- Photoelectrochemical testing
- Solar cell testing
- Transmittance/Reflectance Analysis

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

Description

ATG3300 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, stability mainly depend on the stability of the light source itself.

ATG3300 uses the ATP7330-FL350 high-stability monochromator, which uses a typical asymmetrical non-crossed spectroscopic optical path and has three built-in gratings with different line numbers. By selecting different gratings, the ATG3300 can work in high-resolution spectroscopic mode, medium resolution mode or low resolution spectroscopic mode.

The working band of the ATG3300 light source mainly depends on the selected light source and has a perfect spectral curve. ATG3300 can output light from SMA905 or free space. It has been precisely adjusted to connect to the optical fiber with maximum light flux. ATG3300 can also output light sources in free space.

The ATG3300 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.



1. Parameter

Model	Light Source	Instability	Focal length	spectrum range (Monochromatic light)	Grating	Spectral range	Band	Wavelength accuracy	Wavelength repeatability
ATG3300 -X75A	75W xenon lamp 150W xenon lamp 150W UV xenon lamp	1%	350mm	200-2000nm	Grating1	200-600nm	0.08-6.5nm	±0.2nm	0.025nm
					Grating2	350-1000nm	0.16-14.5nm	±0.4nm	0.05nm
					Grating3	800-2000nm	0.16-14.5nm	±0.4nm	0.05nm
ATG3300 -X150A	300W xenon lamp 300W UV xenon lamp 500W xenon lamp	1%	350mm	250-2000nm	Grating1	250-600nm	0.08-6.5nm	±0.2nm	0.025nm
					Grating2	350-1000nm	0.16-14.5nm	±0.4nm	0.05nm
					Grating3	800-2000nm	0.16-14.5nm	±0.4nm	0.05nm
ATG3300 -X150AU	EQ77 light source EQ99 light source 150W bromine tungsten lamp	1%	350mm	200-2000nm	Grating1	200-600nm	0.08-6.5nm	±0.2nm	0.025nm
					Grating2	350-1000nm	0.16-14.5nm	±0.4nm	0.05nm
					Grating3	800-2000nm	0.16-14.5nm	±0.4nm	0.05nm
ATG3300 -X300P	250W bromine tungsten lamp 40W infrared light source 75W xenon lamp	—	350mm	300-2000	Grating1	300-600nm	0.08-6.5nm	±0.2nm	0.025nm
					Grating2	350-1000nm	0.16-14.5nm	±0.4nm	0.05nm
					Grating3	800-2000nm	0.16-14.5nm	±0.4nm	0.05nm
ATG3300 -X300PU	150W xenon lamp 150W UV xenon lamp 300W xenon lamp	—	350mm	200-2000nm	Grating1	200-600nm	0.08-6.5nm	±0.2nm	0.025nm
					Grating2	350-1000nm	0.16-14.5nm	±0.4nm	0.05nm
					Grating3	800-2000nm	0.16-14.5nm	±0.4nm	0.05nm
ATG3300 -X500A	300W UV xenon lamp 500W xenon lamp EQ77 light source	—	350mm	250-2000nm	Grating1	250-600nm	0.08-6.5nm	±0.2nm	0.025nm
					Grating2	350-1000nm	0.16-14.5nm	±0.4nm	0.05nm

					Grating3	800-2000nm	0.16-14.5nm	±0.4nm	0.05nm
ATG3300-EQ77	EQ99 light source 150W bromine tungsten lamp 250W bromine tungsten lamp	1%	200-2000nm		Grating1	200-600nm	0.08-6.5nm	±0.2nm	0.025nm
					Grating2	350-1000nm	0.16-14.5nm	±0.4nm	0.05nm
					Grating3	800-2000nm	0.16-14.5nm	±0.4nm	0.05nm
ATG3300-EQ99	40W infrared light source 75W xenon lamp 150W xenon lamp	1%	200-2000nm		Grating1	200-600nm	0.08-6.5nm	±0.2nm	0.025nm
					Grating2	350-1000nm	0.16-14.5nm	±0.4nm	0.05nm
					Grating3	800-2000nm	0.16-14.5nm	±0.4nm	0.05nm
ATG3300-T150A	150W UV xenon lamp 300W xenon lamp 300W UV xenon lamp	1%	400-2500nm		Grating1	400-1000nm	0.08-6.5nm	±0.2nm	0.025nm
					Grating2	400-1000nm	0.16-14.5nm	±0.4nm	0.05nm
					Grating3	800-2400nm	0.16-14.5nm	±0.4nm	0.05nm
ATG3300-T250A	500W xenon lamp EQ77 light source EQ99 light source	1%	350-2500nm		Grating1	350-1000nm	0.08-6.5nm	±0.2nm	0.025nm
					Grating2	350-1000nm	0.16-14.5nm	±0.4nm	0.05nm
					Grating3	800-2400nm	0.16-14.5nm	±0.4nm	0.05nm
ATG3300-SiN40	150W bromine tungsten lamp	1%	1.1-12um		Grating1	1.1-4um	2.4-60nm	_____	_____
					Grating2	2.5-8um	2.4-60nm	_____	_____
					Grating3	6-12um	2.8-120nm	_____	_____

2. Output spectral power curve

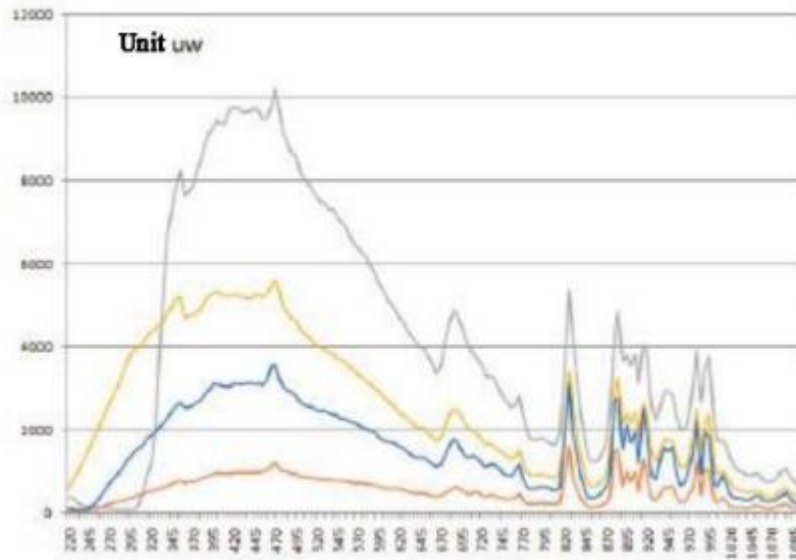


Figure 1 Output power curve of ATG3300-X75, ATG3300-X150, ATG3300-X300 in high resolution mode (Grating is 1200 lines)

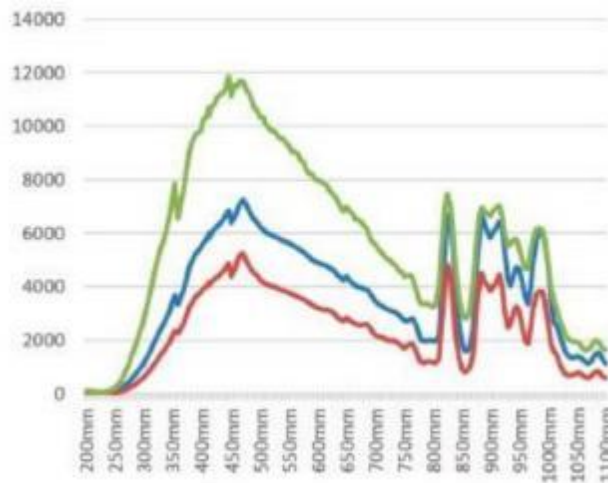


Figure 2 Output power curve of ATG3300-X75, ATG3300-X150, ATG3300-X300 in low resolution mode (Grating is 600 lines)