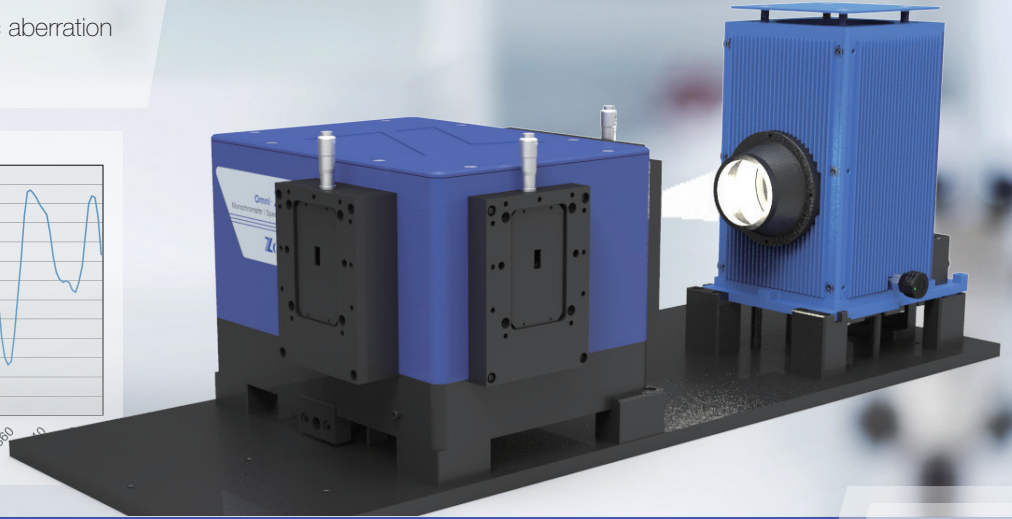
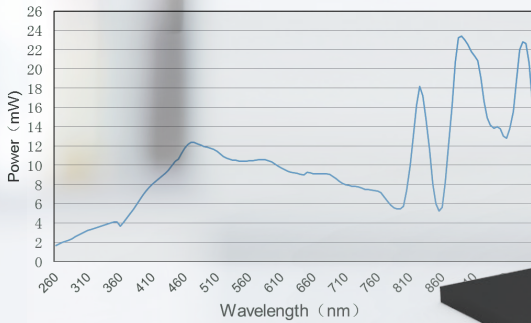


- High intensity light output
- Spectral range 260nm-1000nm
- Flexible bandwidth adjustment
- Full reflection design, no chromatic aberration
- Highest collection efficiency

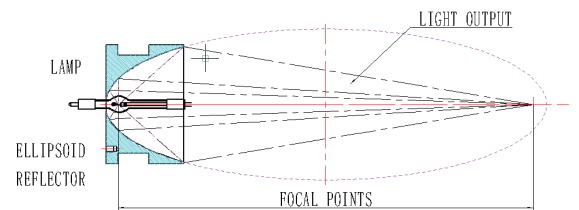


Omni-λBright Series Tunable Light Sources

Omni-λBright Series Tunable Light Sources includes 200mm focal length spectrograph, 75W Xenon light source and other necessary accessories. It arrives fully assembled and optically pre-aligned with high throughput and an individual characterization report. Zolix will work with you to create the system that best suits for your specialized requirements.

Spectral range 260nm-1000nm, cover a broad range of scientific, OEM and research applications.

Compare to the typical performance of a traditional lamp housing design with a spherical reflector and condenser lens, the optical collection efficiency of Omni-λBright light source with ellipsoidal reflector design is about two times higher than the traditional housing(e.g Zolix Gloria light source). To get the same optical throughput as Omni-λBright light source with a 75 watt lamp, a traditional housing would require a 500 watt lamp!



Specifications

Model	Omni-λBright 300	Omni-λBright 600	Omni-λBright 900
Description	Tunable Light Source with Fiber Output	Tunable Light Source with Uniform Light Output	Tunable Light Source with Rotating Output Flange
Optical Power	22mW (90° exit port, grating, bandpass & wavelength dependent)		
Light Source	75W Xenon		
Light Source Stability	0.5%		
Beam Uniformity	-	98%	-
Beam Diameter	-	-	1mm (Min.)
Spectral Range	260-1000 nm		
Bandpass	1 nm ~ 22nm Continuously adjustable		
Wavelength Resolution	± 0.2 nm		
Wavelength Reproducibility	± 0.1 nm		
Optical axis height	160 mm (185mm with base plate)		
Size	870 mm*320 mm*335 mm		
Weight	30 kg		
Interface	USB 2.0	USB 2.0	USB 2.0

Ordering Information

Model	Description
Omni-λBright300	Tunable Light Source with Fiber Output, including spectrograph, light source, filter wheel and fiber.
Omni-λBright600	Tunable Light Source Uniform Light Output, including spectrograph, light source, filter wheel and integrating sphere.
Omni-λBright900	Tunable Light Source with Rotating Output Flange, including spectrograph, light source, filter wheel and Rotating Output Flange.

Accessories

Model	Description
Omni-ShutterC	Shutter Option in Entrance Slit
EMSLIT	3mm Entrance Motorized Slit
OMSLIT	3mm Exit Motorized Slit

Each Omni-λBright unit sold to a customer is tested prior to shipping to confirm that the unit meets factory standards. The final test data included with each unit includes: • Optical power from 260 to 1000 nm; • Wavelength repeatability, accuracy and resolution

Omni-λBright 300

Tunable Light Source with Fiber Output



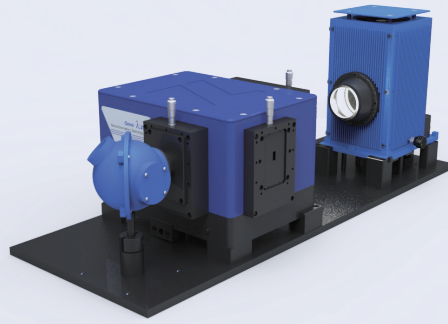
With standard fused silica fiber (Standard SMA 905 termination), Omni-λBright 300 is recommended for applications in which a small, uniform spot size illumination area is desired.

Application:

- The fluorescence Spectrum Test (as excitation light)
- Bioluminescence Test
- Probe Station Application

Omni-λBright 600

Tunable Light Source with Uniform Light Output

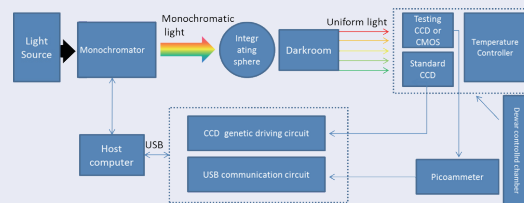


For the image sensor industry, accurate knowledge of its quantum efficiency and spectral responsivity are essential to product performance, and for the image sensor characterization, one uniform and stability monochromatic light is very important. In the Omni-λBright 600 unit, the monochromatic light beam uniformity is 98%. The exit port diameter of integrating sphere is 25 mm.

Highest light levels and dynamic range for image sensor characterization
Uniform spectral irradiance
Controllable monochrome light levels
Software Development Kit

Application:

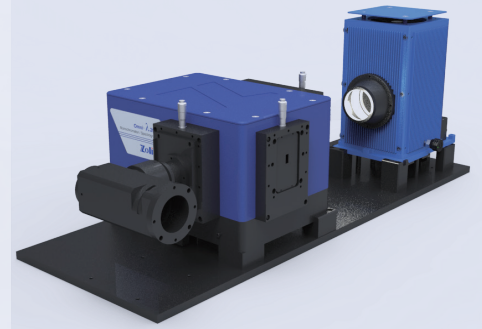
- CCD/CMOS cameras, UV/IR sensors and Photoelectric devices



Measurement structure diagram for CCD/CMOS

Omni-λBright 900

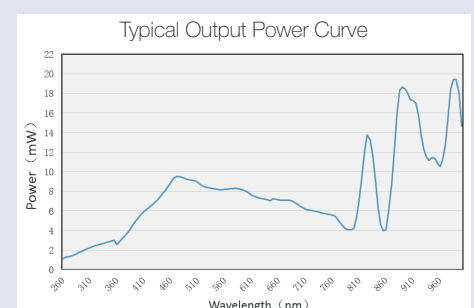
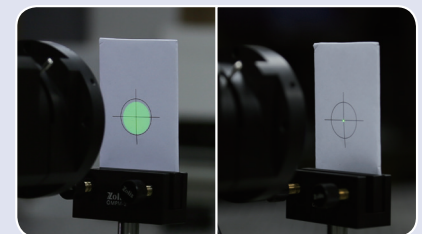
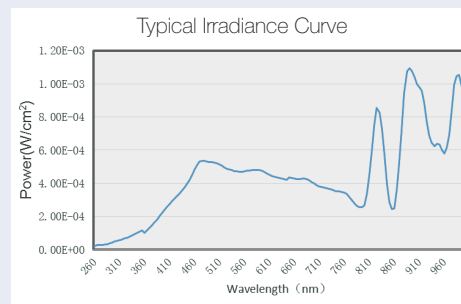
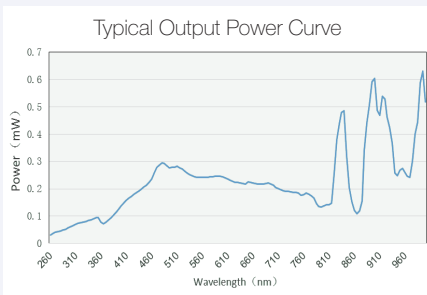
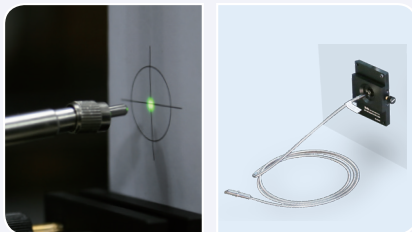
Tunable Light Source with Rotating Output Flange



With standard Rotating Output Flange, the Omni-λBright 900 can output a much greater light output intensity spot (Min. 1 mm), and low noise, which is very suitable for new photoelectric materials development test.

Application:

- Solar Cell Quantum Efficiency Measurement System
- Detector Spectral Responsivity Measurement System
- Optical Lens Spectral Transmittance Measurement System
- Transmission/Absorption /Reflection Measurement System



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