

CA9035 HIGH POWER SUPER WIDE BROADBAND LIGHT SOURCE

(500 nm ~ 2200 nm)

Technical Specifications V1.00
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The UC INSTRUEMNTS' CA9035 high power super-wide broadband light source system is an unique cover over 1700 nm super-wide broadband high power light source with FC connector output. With a total output power of more than 800mW covering a broad spectral range of 500nm to 2200nm, the system is a ideal light source for fiber component characterization, fiber sensing, OCT and other areas . The system is based on a gain-switching diode technology offering unique reliability and performance. Available external modulation allows the use of lock-in amplifiers for high sensitivity measurement and data communications.

Features

- Super-wide wavelength output: 500 ~ 2200 nm;
- High output power: ≥ 800 mW
- Single mode fiber output with FC/PC connector;
- High power output stability: $\leq 1\%$ over 30 mins; $< 3\%$ over 8 hours

Applications

- Fiber optic components characterization
- Optical tomography
- Fiber sensing
- Broadband spectroscopy
- Fluoresense spectroscopy
- R & D lab test

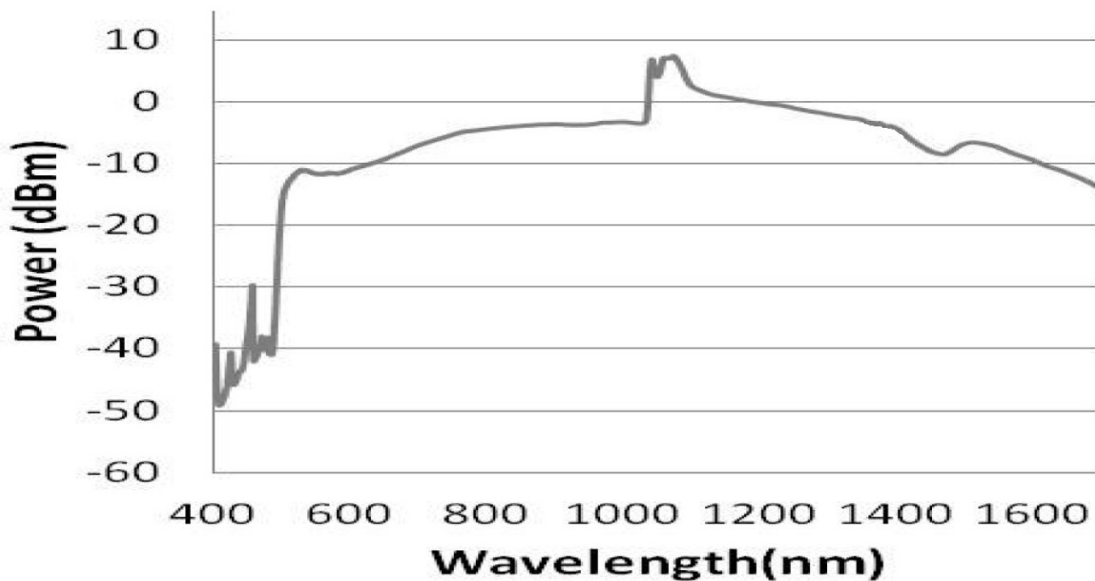
Specifications

Model #	CA035
Operation Wavelength	500 ~ 2200 nm
-10 dB Bandwidth	$\geq 1700 \text{ nm}$
Output Total Power	$\geq 800 \text{ mw}$
Spectral Density	$\geq -15 \text{ dB/nm}$
Connector Type	<i>FC/UPC (Other Adaptor Can Be Customized)</i>
Spectral Stability within 15 mins	$\leq 1\%$
Output Power Stability within 8 hrs	$\leq \pm 3\%$
Operation Model	CW
Fiber Type	Single Mode SFM-28
Operation Temperature	$0 \sim +40 \text{ }^\circ\text{C}$
Storage Temperature	$-30 \sim +80 \text{ }^\circ\text{C}$
Power Supply	<i>AC 110 ~ 220 V $\pm 10\%$, 50Hz, 20W</i>
Dimensions	<i>90 mm H, 220 mm W, 320 mm D</i>
Weight	18.0 kg

Remark: Stability is tested at room temperature $25 \pm 2^\circ\text{C}$ after pre-heating 30 minutes .

1. Test condition: fixed temperature, CW.
2. Test condition: temperature variation $\pm 2^\circ\text{C}$, CW.

Typical Spectrum:



High Power Super-wide Light Source Typical Spectrum

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