LD/LED Light Source Measurement System

BIX-8801 Series

Laser Diodes (LDs) and Light-Emitting Diodes (LEDs) represent the most prevalent semiconductor light sources, finding extensive applications across both industrial and scientific research fields. Their optical characteristics - particularly spectral properties and power output metrics - constitute the most critical performance parameters. The BIX-8801 provides a complete solution for characterizing semiconductor light sources (LDs/LEDs), integrating:

- Precision driving (current & temperature control)
- Optical coupling (sample mounting & light collection)
- Comprehensive detection (spectral & power measurement)

Features

1.Multi-parameter Driver System

- Programmable current sources (multiple ranges available)
- Peltier-based temperature control
- Integrated device mounting fixtures

2.Advanced Optical Characterization

- Simultaneous spectral analysis (200-1700nm)
- Optical power measurement (nW to W level)
- Automated parameter correlation

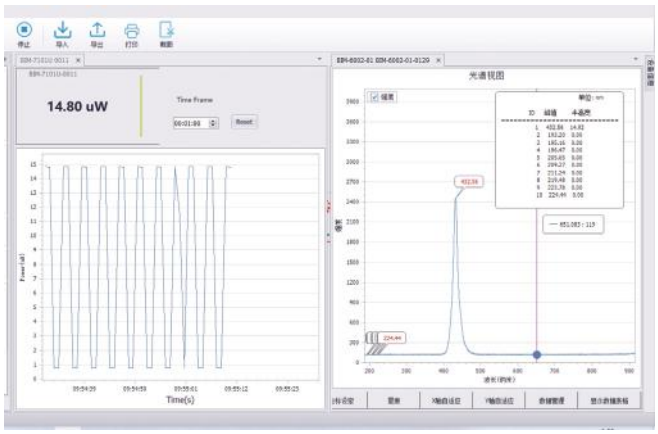
3.Unified Software Platform

- Brolight data acquisition interface
- Real-time plotting of L-I-V-T characteristics
- Spectral/power vs. drive condition analysis

Applications

- Laser diode threshold current testing
- LED spectral shift analysis
- Temperature-dependent efficiency studies
- Device reliability evaluation

Typical Spectrum



LD power and spectrum

Specifications

Module	Model	Specifications
Current Drive Controller	BRM-6101	Mode: CW/Pulse Current: 1.5A
	BRM-6102	Mode: CW/Pulse Current: 15A
	BRM-6103	Mode: CW Current: 20A
	BRM-6104	mode : CW current: 1A
Temperature Drive Controller	BRM-6201	Current: ±4A Voltage: ±21V
	BRM-6202	Current: ±16A Voltage: ±30V
Installation Mounts	BRM-6701	Pacakge type: TO-Can Support specification: TO-38/46/56/90
	BRM-6711	Pacakge type: Butterfly shape Support specification: 14Pin
Integrating Sphere	SIM-3001-10001	Sphere dia: 100mm
	SIM-3001-15001	Sphere dia: 150mm
Power Meter	BIM-7101U	Wavelength range: 380~1100nm
	BIM-7102U	Wavelength range: 200~1100nm
	BIM-7103U	Wavelength range: 800~1650nm

Module	Current Drive	Tempertaure Drive	Installation Mount	Integrating Sphere	Power Meter
Configuration	00: no	00: no	00: no	00: no	00: no
	01: BRM-6101	01: BRM-6201	01: BRM-6701	01: SIM-3001-10001	01: BIM-7101U
	02: BRM-6102	02: BRM-6202	02: BRM-6711	02: SIM-3001-15001	02: BIM-7102U
	03: BRM-6103				03: BIM-7103U
	04: BRM-6104				
BIX-8801	01	01	00	02	03

*Spectrometer and optical fiber are configured as needed.