

CT6206

High Power Laser Test System

Version 1.3





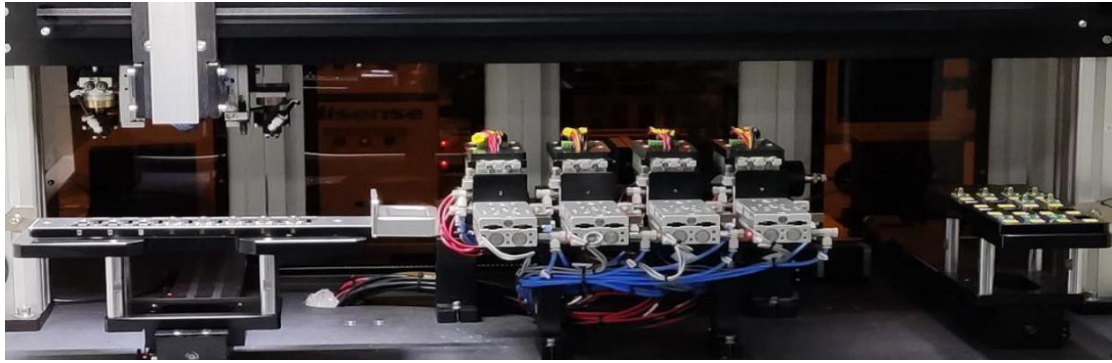
Product Description

As a high-power semiconductor laser test system, Semight Instruments CT6206 supports the continuous or pulse mode with a current range of 10A. CT6206 is a very flexible test platform that supports CoC, CoS, CoB or TO packages, covering optical communications, industry, 3D sensors, laser radar and other applications.

CT6206 and BI6206 high-power laser BI systems share a test fixture board for automatic fixture loading and unloading, and support batch test and parallel test. It provides a very efficient platform for the mass production of high-power semiconductor lasers.

Key Features

- Share a test fixture with BI6206 high power laser BI system
- Support automatic fixture loading and unloading
- Support batch input and output, four test platforms for parallel testing, high efficiency
- High repeatability of optical measurement
- High wavelength measurement repeatability
- Support near-field and far-field test optional
- Low temperature - 40°C test optional
- High efficiency and low cost
- Flexible software and hardware design



System architecture, 4 test seat in parallel

Technical Specification

System Parameters	Chip type	All high power CoC/CoS lasers
	Fixture type	Compatible with BI6206 BI system fixture
	Fixture loading and unloading	Automatic fixture loading and unloading
	Fixture ID scanning identification	Automatic fixture Barcode scanning recognition
	Golden sample control	The software supports the Golden sample control function. If the machine unit test of standard sample exceeds over time cycle (configurable), the system automatically alarms
	Testing machine unit control	The software supports the testing machine unit control function. If the same fixture is tested on different test machine units before and after BI, the software will automatically generate an alarm prompt.
	Test configuration control	Software supports test configuration control, including instruments, algorithm, sequence, result judgment, etc.
	Test data	Support all test data required by users/support MES related requirements
Electrical	SMU type	Precision source meter
	DC current	3A
	I/V source resolution	500nA/100mV
	I/V measurement resolution	500nA/100mV
	Voltage range	70V
	Pulse current	10A



	EOS	No EOS (under any normal operation and use conditions)
Optical	detector type	InGaAs
	wavelength range	1200-1700nm (Scalable to 700-1700nm)
	Optical power measurement range	5mW-5000W
	Optical power measurement accuracy	<0.2dB
	Optical spectrum measurement range	Integrated Yokogawa AQ6360 or other spectrometer
	Optical spectrum measurement accuracy	
	Optical power coupling efficiency	Coupling power>-15dBm
Temperature	Temperature control method	TEC+ water-cooling system
	Temperature area	4 independent temperature control seats
	Temperature range	25~100°C
	Temperature change rate (heating/cooling)	8°C/min
	Temperature resolution	0.1°C
	Temperature accuracy	<±0.5°C
	Temperature uniformity	<±0.5°C
	Temperature stability	<±0.1°C
Teat Parameters	Ith repeatability	±1%
	Power repeatability	±2%
	SE repeatability	±2%
	VF repeatability	±3%
	Wavelength repeatability	<±0.1nm
	SMSR repeatability	<2.5dB



Ordering Information

CT6206	Standard Configuration
Option	
VS	High power VCSEL laser option
LT	Low temperature option



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Visit www.semight.com for more information.

*This information is subject to change without notice.