



# CT6206

High Power Laser Test System

Version 1.1





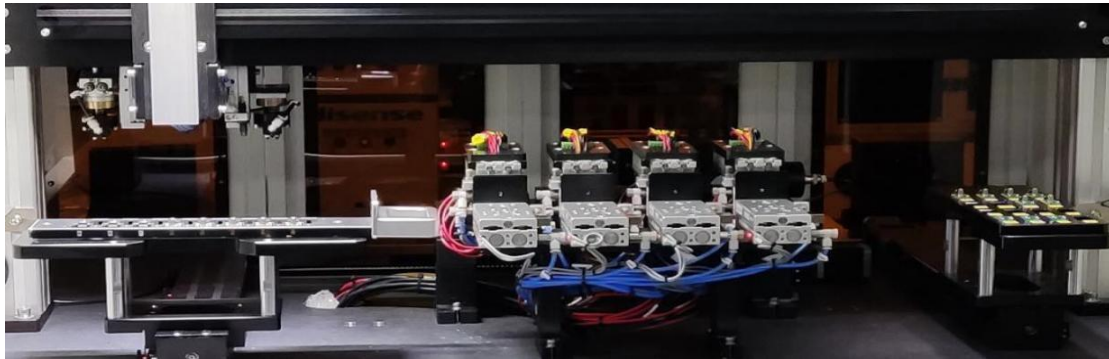
## Product Description

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        |



## Contact us

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## About Semight Instruments

Semight Instruments is a leading provider of global high-end test & measurement instrument and equipment. The company provides products and service to R&D, manufacture of high-speed communication, optical chip and semiconductor testing fields. Semight's testing instrument includes high-speed Bit Error Ratio Tester, Network Traffic Analyzer, broadband Sampling Oscilloscope, high-precision Wavelength Meter and digital Source Measure Unit. In addition, the company delivers optoelectronic hybrid ATE, laser chip burn-in system, laser chip tester, silicon photonics wafer tester, power chip tester, wafer level burn-in system to domestic and international customers.

Semight Instruments adheres to the customer-centric, employee-based, innovation-driven, and continues to provide customer trustworthy, cost-effective and high-performance products and service.

Visit [www.semight.com](http://www.semight.com) for more information.

\*This information is subject to change without notice.