

UC INSTRUMENTS UC9710xx PC Control Tunable Laser Source Modules

Technical Specifications Ver 1.10
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UC8710xx Tunable Laser Source Modules

The UC8710C, UC9710L and UC8710CL tunable laser modules offer superior performance in testing DWDM components, AWG & PLC components, and optical amplifiers, and performing other general- purpose fiber optical test and measurement applications particularly in fiber grating sensor fast sweep testing.

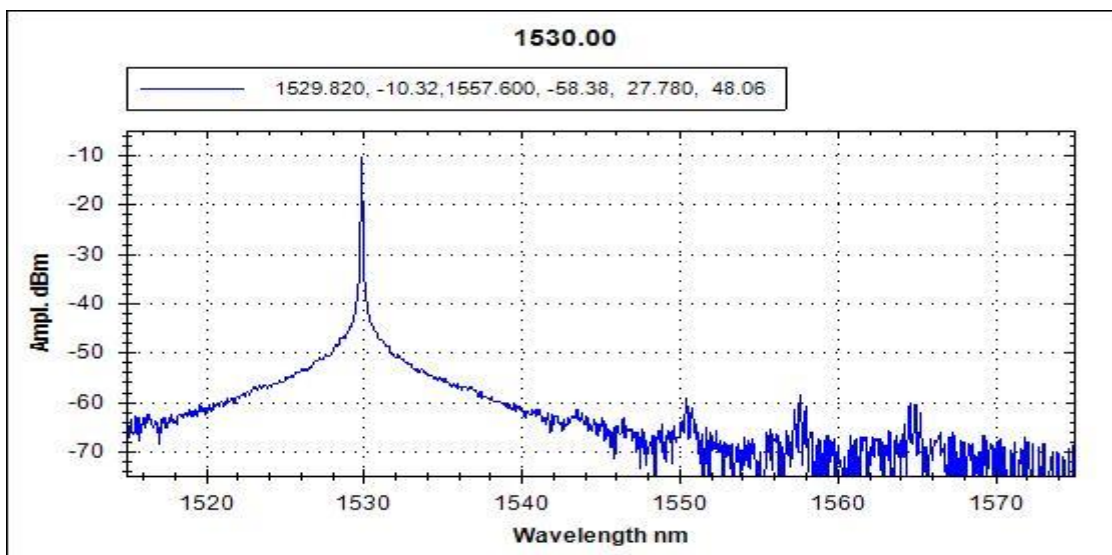
Each of the three tunable laser modules (i.e., UC8710C, UC8710L, UC8710CL) can be connected to a PC through a USB cable, comprising a high accuracy, high power, compact dimension, fast startup, affordable tunable laser source system. This system provides C band, L band, or C+L band tunable laser sources options. These modules can be integrated into customers' products system with RS232 interface control and output trig BNC port. UC Instruments also provide modules control software.

Features

- High wavelength accuracy
- Continuous wavelength tunability
- High power laser source
- Rapid tuning speed
- Fast startup
- Compact size
- Competitive price

Applications

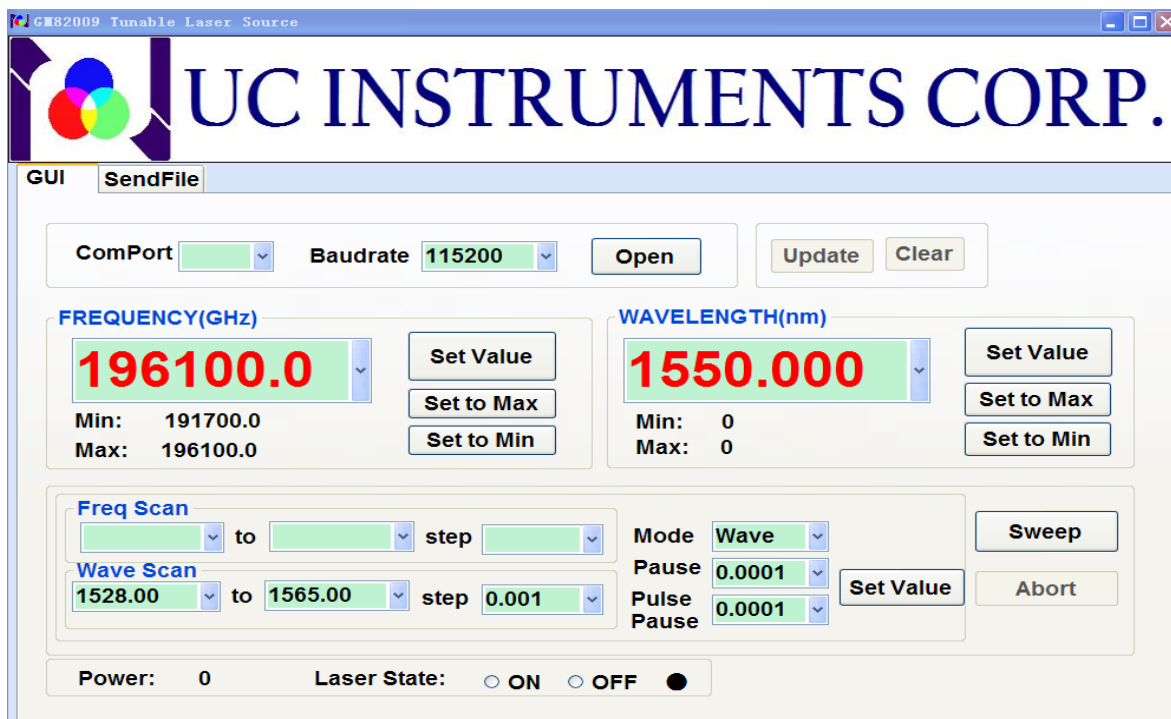
- WDM, GFF, isolator, AWG, PLC components tests
- Fiber sensor fast sweep tests
- Fiber sensor/sensor array developments
- PMD and PDL measurements
- Fiber optical, telecom R&D lab tests and system integration



Specifications

Model #	UC8710C	UC8710L	UC8710CL
Wavelength range	1527.00 to 1568.00 nm	1568.00 to 1610.00 nm	1527.00 to 1610.00 nm
Output Power	≥ 13 dBm	≥ 10 dBm	≥ 7 dBm
Wavelength resolution	1.0 pm		
Absolute wavelength accuracy	± 10 pm, typ. < 5 pm		
Relative wavelength accuracy	± 5 pm, Typ. ± 2 pm		
Wavelength repeatability	± 2 pm, typ. ± 1 pm		
Wavelength stability (typ., 24 hrs at constant temperature)	$\leq \pm 2$ pm		
Tuning speed	≤ 2 ms per step		
Power stability	± 0.05 dB, 1 hour. Typ., ± 0.1 dB, 24 hours.		
Power repeatability	± 0.05 dB		
Power linearity	± 0.3 dB		
Power flatness versus wavelength	0.3 dB typ., 0.5 dB max.		
Side-mode Suppression ratio	≥ 45 dBc		
Relative intensity noise (RIN. Typ.)	< -135 dB		
Output optical interface	PM, FC/PC connector		
Interface	USB or RS232(Optional)		
Output trig port	BNC trig		
Power	3.3 V; 3 A		
Dimensions	235mm W, 45mm H, 310 mm D		
Weight	4.0 kg		

UC8710 PC Control Interface



GUI SendFile

ComPort Baudrate 115200

FREQUENCY(GHZ)

 Min: 191700.0
 Max: 196100.0

WAVELENGTH(nm)

 Min: 0
 Max: 0

Freq Scan
 to step

Wave Scan
 to step

Mode
 Pause
 Pulse Pause

Power: 0 Laser State: ON OFF

UC INSTRUMENTS' Test and Measurement Supports, Services and Assistance

UC INSTRUMENTS provides high performance, high value, low cost, affordable test and measurement instrument solutions for our customers. Our extensive support sources can help you choose right UC INSTRUMENTS' products for your specific applications and apply them successfully. Every instrument /system we sell has a global warranty. All of our instruments are with at least 12 months factory warranty.

Our Promises

All of UC INSTRUMENTS' test and measurement instruments and systems meet their advertised performance and functionality. When you select a UC INSTRUMENTS' product, we can help your product operation with our decade experiences, and provide the basic measurement assistance for the use of special capabilities.

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