

# UC INSTRUMENTS CA82006 High Power C Band Tunable Laser Source

Technical Specifications Ver 1.00  
Jan., 2015



# CA92006 High Power C Band Tunable Laser Source

The CA92006 High Power C Band tunable laser offer superior performance for the test of optical film counting monitor, DWDM components, AWG & PLC components, optical amplifiers, and other general purpose of fiber optical lab test and measurement applications.

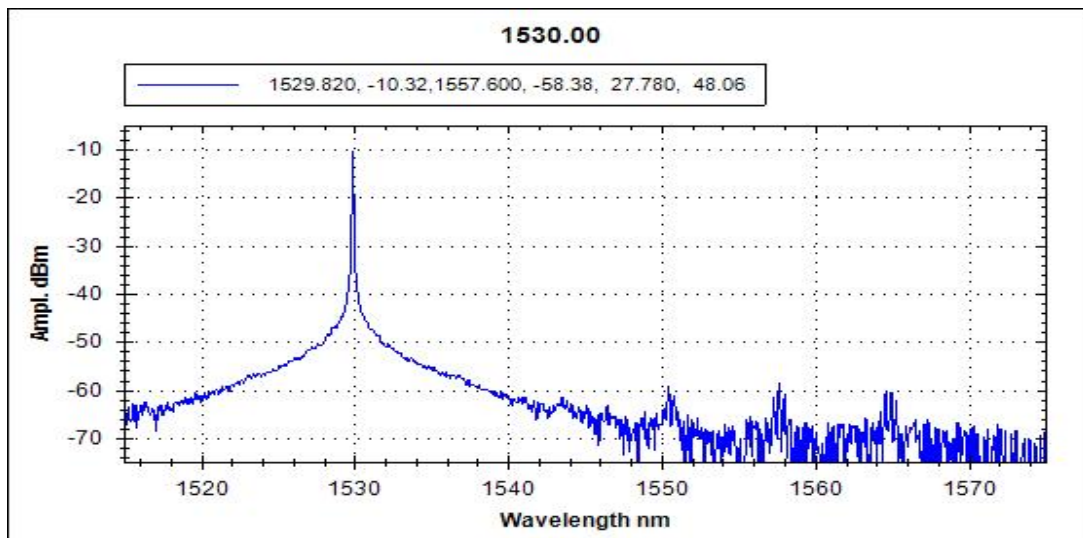
Each of CA92006 high power C band tunable laser is connected to a PC with USB cable. It becomes a High Accuracy, High Power, Small Dimension, Fast Startup, Affordable Tunable Laser Source system. It provides C band tunable laser sources options. UC Instruments also provide modules control software. These module also can be integrated into customers' products system with RS232 interface control and output trig BNC port.

## Features

- High wavelength accuracy
- Quick startup
- High power output
- Affordable price

## Applications

- Accuracy optic coating machine coating quality control monitor
- WDM, GFF, Isolator, AWG, PLC components test
- Fiber Optical , Telcom R & D lab test and system integration
- PMD and PDL measurement




## Specifications

Model #	CA92006
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Wavelength range	<b>1527.99 to 1572.06 nm (190.7 ~ 196.2 THz)</b>
Output Power	12.0 ~ 18.0 dBm (20.0 ~ 63.0 m W)
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)	<= +/- 2 pm
Tuning speed	<= 3 second per step Typ.
Power stability	+/- 0.05 dB, 1 hour. Typ., +/- 0.1 dB, 24 hours.
Power repeatability	+/- 0.05 dB
Power linearity	+/- 0.3 dB
Power fiatness versus wavelength	0.3 dB typ., 0.5 dB max.
Side-mode Suppression ritio	>= 45 dBc
Relative intensity noise(RIN. Typ.)	< -135 dB
Linewidth,	Typical <= 200 kHz
Output optical interface	PM, FC/PC connector
Interface	USB
Output Modulation for lock-in	Input Voltage peak to peak: 2V; Input frequency: 1.2 MHz; Output modulation*: 50%
Modulation Signal Input Port	BNC Adapter
Power	90 ~ 240 V AC; 50 ~ 60 Hz
Dimensions	2U H, 1/2U W, 10 inch D
Weight	1.5 kg

## CA92006 High Power Tunable Laser Source PC Control Interface



# UC INSTRUMENTS CORP.

Devices:  Open Close Update

Laser Status:  On  Off

Frequency (GHz)

Set Value

Min:  Set to Min

Max:  Set to Max

Wavelength (nm)

Set Value

Min:  Set to Min

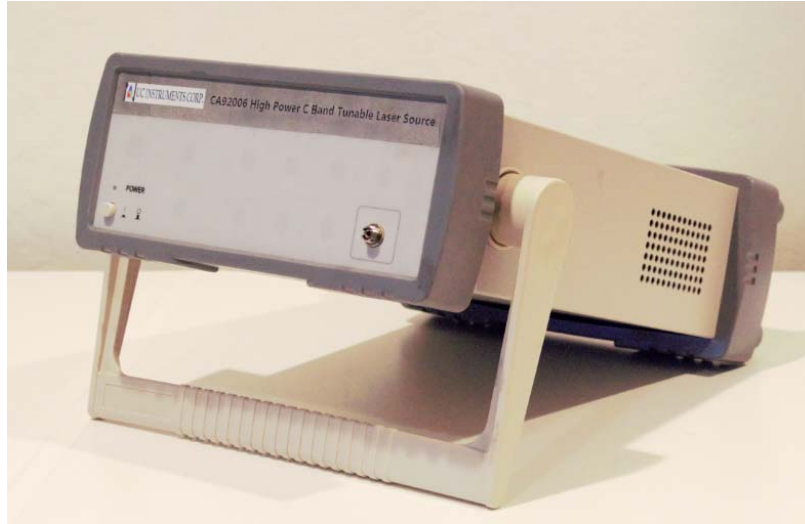
Max:  Set to Max

Power  dBm  mW

Set Value

Min:  Set to Min

Max:  Set to Max



## **UC INSTRUMENTS' Test and Measurement Support, Services and Assistance**

UC INSTRUMENTS provides high performance, high value, low cost, affordable test and measurement instruments solution for our customers. Our extensive support sources can help you choose right UC INSTRUMENTS' products for your application and apply them successfully. Every instruments and system we sell a global warranty. All of our instruments with at least 18 months factory warranty.

### **Our Promise**

All of UC INSTRUMENTS' test and measurement instruments and system will met its advertised performance and functionality. When you select UC INSTRUMENTS' products, we can verify if it is work properly, help with products operation, and provides the basic measurement assistance for the use of special capabilities.

### **Contact Information**

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June, 2015

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