CA92050 KT 2 kHz Fast Swept C Band Tunable Laser Source

(Version 2.00)

Technical Specifications Ver 2.00 June, 2018





www.ucinstruments.com

CA92050-KT 2 kHz Fast Swept Tunable Laser Source

The CA92050 2 kHz fast swept tunable laser modules offer superior performance for the test of Fiber Vibration Sensing, DWDM components, AWG, WSS, OPM components, Fiber sensing(especially for vibration fiber sensing application), optical amplifiers, and other general purpose of fiber optical test and measurement with high wavelength resolution applications.

Each of CA92050 tunable laser modules is connected to a PC with RS232 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. The module also can be integrated into customers' products system with RS232 interface control.

The CA92050-KT swept lasers are widely deployed in FBG sensing systems and passive component test systems.

1. Key Features

- Wavelength Range C-band
- High Output Power
- Low Power Consumption
- Wide Operating Temperature Range
- Fast Swept Speed
- Simple Interface
- High Stability



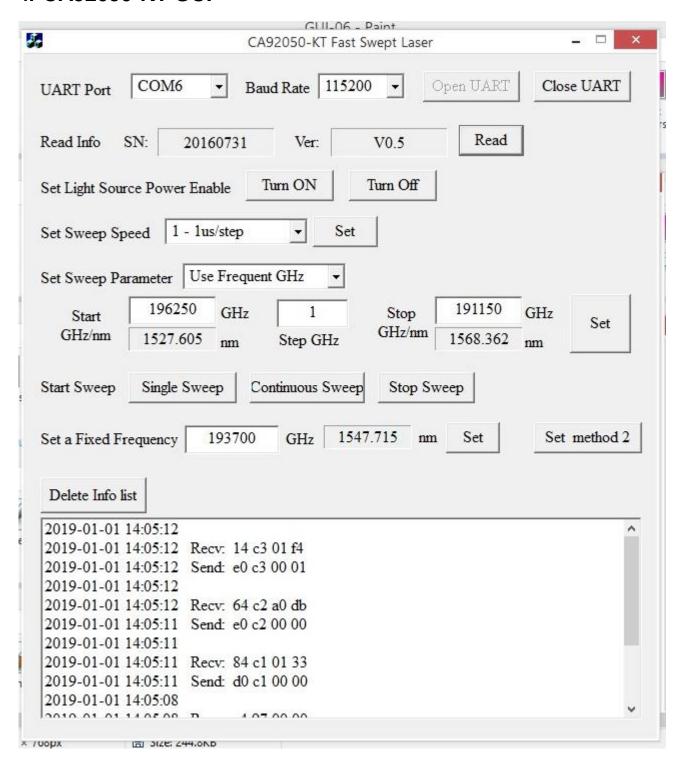
2. Applications

- Fiber Grating Sensor Interrogator System
- Optical Passive Components test system
- Scanning Spectrometer
- Laser Ranging

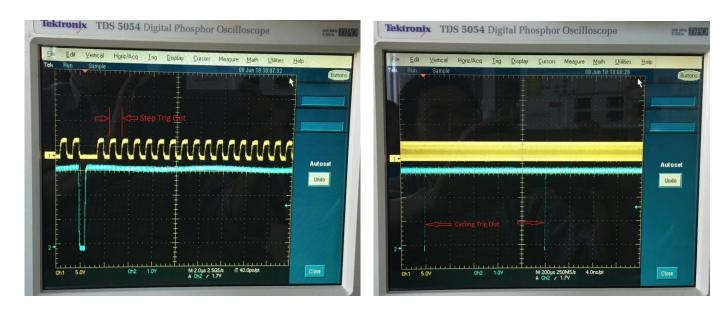
3. Technical Specifications

Model No.	CA92050-KT
Wavelength Range	40 nm for C-band (From 1528 – 1568 nm)
Optical Power	20 mW
Resolution	1 GHz
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(-5 to 55 °C)	<+/-2 pm
Sweep Speed	2 KHz(Max)
Default Sweep Step	1 GHz
Power Stability	+/- 0.05 dB
Spectral Flatness	<0.5 dB
SMSR	>40 dB
RIN	< -135 dB/Hz
Power Supply	+5 V / 3 A
Linewidth	<5 MHz Typ 1 MHz
Trigger Interface	LVTTL
Communication Interface	RS232 or TTL
Dimension	235mm W, 45mm H, 310 mm D
Fiber Adaptor	FC/UPC
Working Temperature Range	-10 to 55 ℃

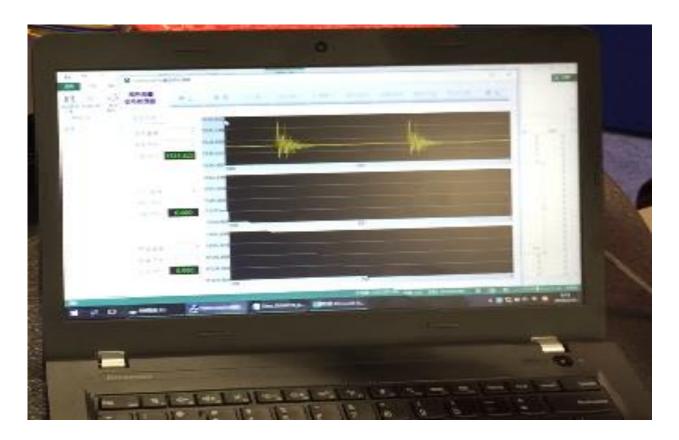
4. CA92050-KT GUI



Trig Out Signal:



Ring Tone Vibration Signal (Application Sample):



Contact Information

United States: UC INSTRUMENTS CORP.

3652 Edison Way Fremont, CA 94538 USA

Tel: 1-510-366-7353 Fax: 1-510-795-1795 www.ucinstruments.com

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