



High Speed Picosecond Laser Source



General

This instrument is widely used in scientific research such as laser ranging, optical measurement, and the fluorescent lifetime analysis. Recent years, high-speed picosecond laser is further applied in the field of quantum cryptography, which becomes the core equipment generating quantum signal.

WT-LD series laser is an inexpensive, high stable optical equipment with ultra-narrow pulse, was generated in the process of quantum cryptography communication system research. It can output continuous laser or ultra-narrow picosecond pulsed laser, the speed can uniquely reach 1GHz/1.25GHz. It can work in internal or external trigger mode. Users can choose the trigger signals through human-machine interface, with multi-common signal or self-defined, and adjust the parameters of the laser output.

Application

- Quantum key distribution
- Laser ranging
- Quantum optics
- Quantum optics, biological optics
- Optical measurement
- Fluorescent lifetime analysis
- Fiber characteristics analysis

Key Features

- Ultra-high repetition frequency: 1GHz/1.25GHz
- Wide pulse width adjustment range: 50~2000ps
- Ultra-low time jitter: <20ps
- Ultra-narrow laser line width: $\leq 0.9\text{nm}(@-20\text{dB}, 100\text{MHz}/125\text{MHz}, 200\text{ps})$
- High stability design: internal constant temperature controlled, reduce influence of temperature drifting
- Pulsed laser mode and continuous laser mode
- Internal and external trigger mode
- Multiple external trigger signal: LVTTTL, PECL, LVPECL, NECL, CML, LVDS, NIM, etc.



International Sales: RMY Electronics (Hong Kong) Ltd.

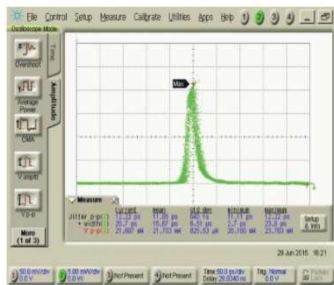
Phone: +86-13801083934

Website: www.RMYelectronics.com/english

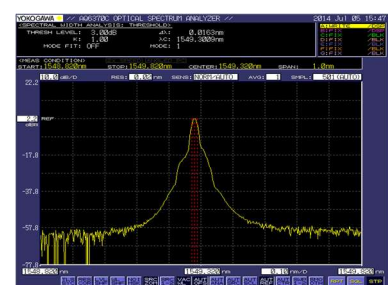
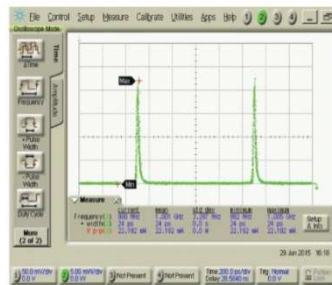
Specifications

Name	Index	Unit
Wavelength*	1550	nm
Optical pulse width	50~2000	ps
	ADJ(0.1~2.0), precision 0.1ns	ns
Optical pulse time jitter	20	ps
External trigger frequency	1~1250	MHz
Internal trigger frequency	5~1250	MHz
Side mode suppression ratio	>=30dB (100MHz/125MHz, 200ps)	dB
Continuous mode optical power	1/2/5	mW
	ADJ(1.0~5.0), precision 0.1mW	
Time delay adjustment range	0~5000(precision 5ps)	ps
Operation temperature	10~30	°C
Dimension (W×H×D)	275×138×354	mm
Power supply	100~240	VAC
Power consumption	≤50	W

*A typical data, the actual wavelength can be customized



Optical Time Domain Waveform
(Pulse width 50ps at a repetition speed 1GHz)



Optical Spectrum Diagram
(Pulse width 500ps)

Order Information

Part Number: WT-LD200-XY

X: S indicates single channel

D indicates dual channels

M indicates multiple channels

Y: H indicates repetition rate-1.25GHz

L indicates repetition rate- 1GHz

Beijing RMY Electronics Ltd.

Subject to change without notice