

<https://www.symphotony.com/products/ultrashort/mlti-kit/>

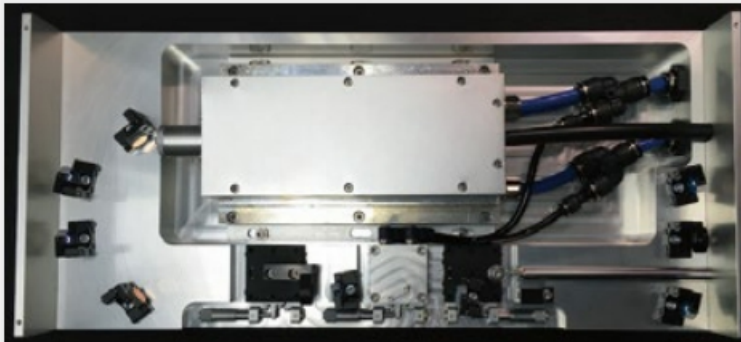
Mode-locked Ti sapphire laser kit

Compact and stable mode-locked Ti sapphire laser kit. It is Kerr lens mode-locking is adopted as the principle of generation of ultra-short pulsed light, and it is possible to easily obtain stable femtosecond laser pulses with a wavelength of 800 nm due to the precise design and housing.



Composition

Body inside



Components

- Ti sapphire crystal
- Pump laser
- Optical components
- Body
- Chiller
- Assembly manuals

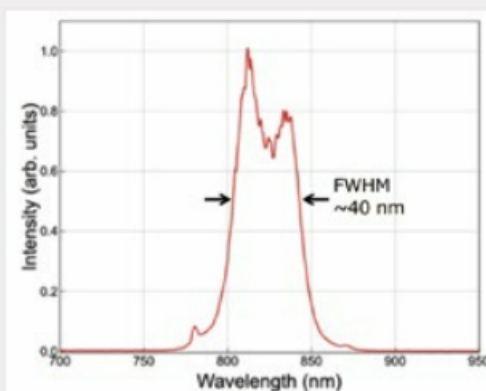
Features

Comparison data

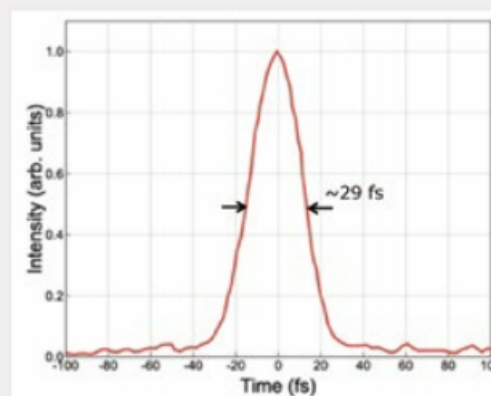
	MLti-kit	Conventional one
Pulse width	<50 fs (*29 fs is also possible)	<10 fs
Central wavelength	810 ± 10 nm	800 ± 50 nm
Average power	>1 W	>0.6 W
Repetition frequency	80 ± 1 MHz	80 ± 5 MHz
Self build	Available	Not available
Price	JPY 3,500,000	> JPY 10,000,000

Specification

Items	Specification
Pulse width	<50 fs (Typical)
Central wavelength	810 ± 10 nm
Average output	>1 W (Typical)
Repetition frequency	80 ± 1 MHz
Spatial mode	TEM00
Polarization	Horizon
Excitation laser standard life time	10,000 hours
External dimensions	214 mm (W)×464 mm (D)×97 mm (H) (Excl protrusion)
Remarks	A chiller for circulating and cooling the cooling water is included. Use in a clean environment (a clean room of class 100,000 or less is a guide). For stable operation, use it in a room with a stable temperature (23°C ± 2°C as a guide).

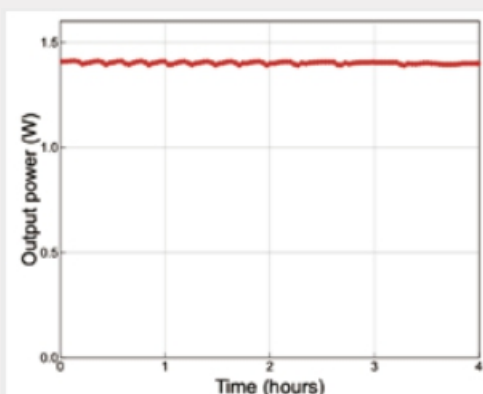


Oscillation spectrum (example)

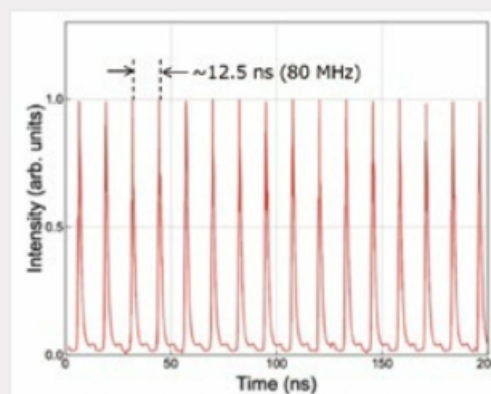


Pulse width (example)

※ Pulse width for the above oscillation spectrum (sech²)



Long-term stability



Repetition frequency

Price and lead time

Product Name : Mode lock Ti Sapphire Laser Kit

Model : MLti-kit

Price : 3.5 million yen (excluding tax)

Delivery time : Contact us

*Please feel free to contact us regarding Ti sapphire regenerative amplifiers.

Kokyo

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