

Pulsed UV/Green Fiber Laser

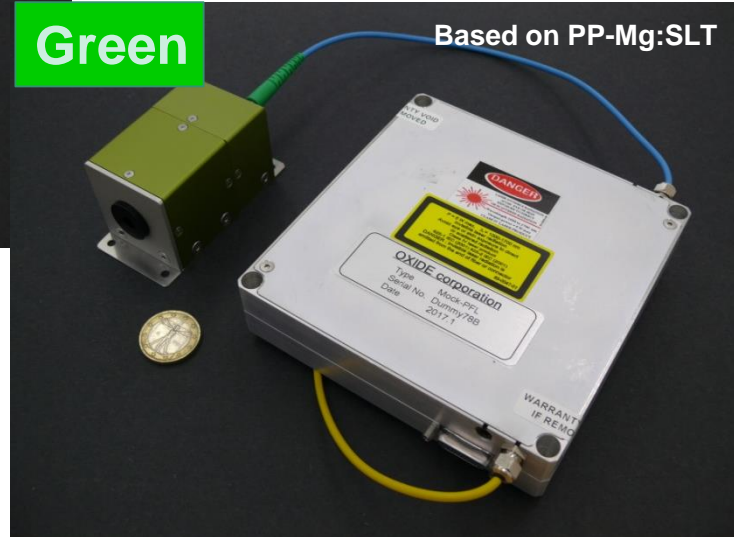
Short pulse width with high repetition for sensing

Features

- ✓ Compact (portable)
- ✓ High peak power
- ✓ High repetition rate
- ✓ Compatible design



Based on Monolithic PP-Mg:SLT



Application

- ✓ Underwater inspection
- ✓ Raman spectroscopy
- ✓ Aerosol detection
- ✓ Sensing (LIDAR)

Specification (Preliminary @25°C)

Model	UV (Low power)	Green
Mode of operation	Pulsed	Pulsed
Wavelength	355 nm	532 nm
Pulse energy	~ 1.6 μ J	~ 12 μ J
Peak power	~ 1.6 kW	~ 12 kW
Average power	~ 80 mW	~ 500 mW
Power tunability	20-100%	
Output Type	Free space	
Pulse repetition rate	50 kHz	
Pulse duration	~ 1 ns	~ 1 ns
Polarization	Linear (vertical)	
Beam Quality (M^2)	<1.5	<1.4
Fiber laser size	120 (W) x 27 (H) x 120 (L) mm ³	
Convertor size	40 (W) x 40 (H) x 87 (L) mm ³	40 (W) x 40 (H) x 62 (L) mm ³

Option

- Collimated output
- Other Wavelength
- Customized packages, OEM
- Dual wavelength output (1064 nm/532 nm)

Above products are based on results obtained from a project commissioned by the New Energy and Industrial Technology Development Organization (NEDO).

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