

Key Features

- Ave, output power >1.5W
- High pulse energy > 30uJ
- High peak power >10kW
- Pulsed linewidth <3GHz
- Adjustable repetition rate
- Adjustable pulse width
- Gaussian beam profile: $M^2 \approx 1$
- Compact & rugged design
- Operation Temp -10 to 50° C
- PM version

Applications

- Coherent LIDAR
- Doppler LIDAR
- Range finding
- SHG seed
- Remote sensing

MAKO SERIES

Also available at different standard wavelengths with same high performance and compact footprint:

- ◆ MAKO-1030
- ◆ MAKO-1064
- ◆ MAKO-NL-1550
- ◆ MAKO-NL-1900
- ◆ MAKO-NL-2000

The CYBEL MAKO-1550+ is a compact 1550nm eye safe Pulsed fiber laser that can deliver 10kW pulses power greater than 1.5W. The laser output has a near Gaussian profile ($M^2 \approx 1$).

The MAKO-1550+ pulse width (2 to 60ns) and repetition rate (10kHz to 4500kHz) are continuously adjustable through an analog input control. The optical output power is adjustable through a digital Interface.

The MAKO-1550+ is an efficient, ultra compact ($97 \times 78 \times 15 \text{mm}^3$) and ultra-light (150g), all-fiber OEM unit specifically designed for sensing applications requiring small size.



MAKO-1550+: $97 \times 78 \times 15 \text{mm}^3$

MAKO-1550+ Specifications

OPTICAL	Unit	Value	Comment
Center wavelength	nm	1545	Other wavelengths available
Spectral pulsed width (FWHM)	GHz	3	>97% power in signal, peak 5kW
Average output power, pulsed	W	0.7	20kHz, 4ns
Pulse repetition rate	kHz	10 to 4500	Adjustable
Power tunability	%	0 to 100	
Pulse width	ns	2 to 60	Adjustable
Peak power	kW	7	20kHz, 4ns
Energy-per-pulse	μJ	30	
ASE level, pulsed	%	2	%power, 50kHz, 20ns, 1.5W avg. power
Pulse energy variation	% RMS	5	20kHz, 4ns, 0.7W avg. power
Output mode M ²	M ²	1.1	
Output mode, MFD (non-PM)	μm	11.5	
Output fiber length	cm	50	Other lengths available
Output fiber description		3mm SS, FC/APC	Armored cable available on request
ELECTRICAL/MECHANICAL			
Mechanical package	mm	97x78x15	
Supply power consumption	W	15	25°C, 1.5W output power
Control interface		RS 232	
ENVIRONMENTAL			
Operating temperature	°C	-10 to 50	
Operating relative humidity	%	0 to 95	Non-condensing

CUSTOMIZATION

The MAKO is a laser platform that can be customized to match Customers ' specific requirements. Please contact Cybel.

COMPLIANCE with Regulatory Requirements: These OEM products are Class 4 lasers as designated by the Center for Device and Radiology Health (CDRH). As such they are intended only in integration into other equipment and do not comply with CDRH requirement. It is the customer responsibility for CDRH certification of the full system that incorporates this industrial laser.



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