

Cybel

Lighting the Way

www.cybel-llc.com

SKYLIGHT

1550nm Pulsed High Power Fiber Laser

Key Features

- **High energy (up to 40uJ)**
- **High peak power (up to 10kW)**
- **Adjustable repetition rate (200kHz to 1.5MHz)**
- **Adjustable pulse width**
- **High beam quality ($M^2 < 1.3$)**
- **Compact & rugged design**
- **RS232 or USB interface**
- **Optical trigger output**
- **Operation (-10 to 50 C)**
- **PM version**

The CYBEL SKYLIGHT series is a 1550nm eye safe pulsed fiber laser that delivers short pulses (2-8ns) over a wide range of repetition rates (200kHz-1.5MHz) with high pulse energy (up to 40uJ).

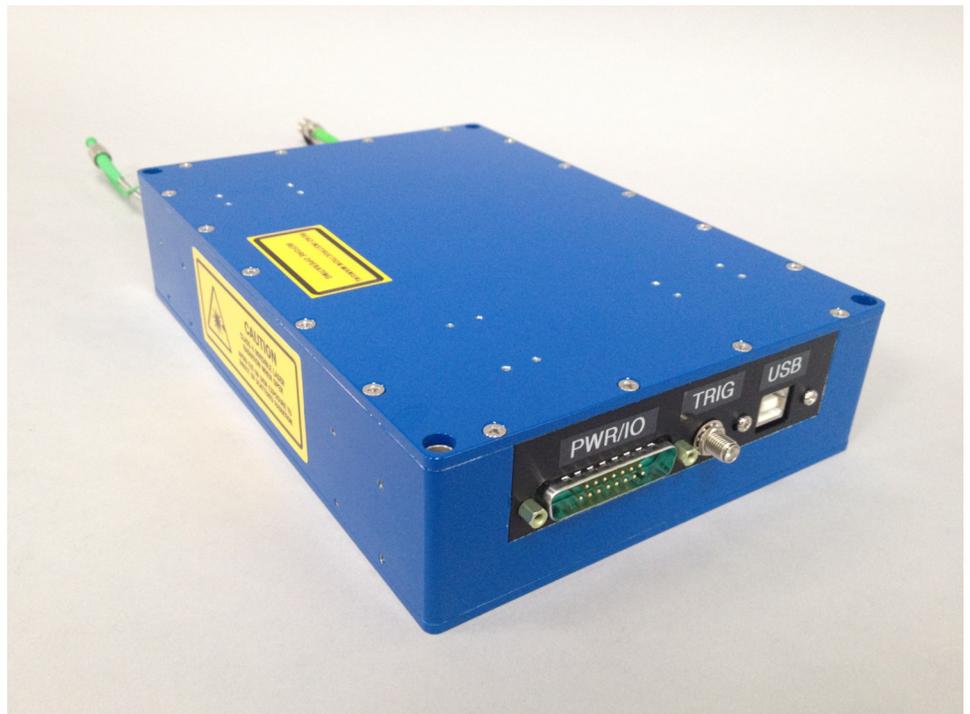
The SKYLIGHT comes in either a 5W or 10W average power configurations with up to a 10kW of peak power in a near-Gaussian beam ($M^2 < 1.3$).

Output power and key monitoring and operating parameters are controlled from either a RS232 or USB port while the pulses are triggered by either an external TTL input signal or through internal software control.

The SKYLIGHT is an efficient and compact all-fiber OEM unit specifically designed for airborne or ground sensing applications.

Applications

- **LIDAR-LADAR**
- **Range finding**
- **Mapping**
- **Remote sensing**
- **Non linear optics conversion**
- **Seed source for Amp**



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SKYLIGHT Specifications

OPTICAL	Unit	SKYLIGHT-5	SKYLIGHT-10	Comments
Wavelength	nm	1545		1535nm to 1560nm
Mode of Operation		pulsed		
Repetition Rate	KHz	200 to 1500		Adjustable
Pulse Width	ns	4	4	Software Adjustable
Average Output Power	W	5	10	
Output Peak Power	kW	5	10	@250kHz for Po
Output Energy-/Pulse	uJ	20	40	@250kHz
Output Power Tunability	%	3-100		
Optical Polarization		Elliptical		Time varying
Beam Quality (M ²)		1.1	1.3	
Maximum Reflectivity of External System	dB	-40		No output isolator
Output Fiber Length		0.5m		Armored cable
Monitor Fiber Length		0.5m		Armored cable
ELECTRICAL				
Voltage	V	18 to 30 volts		
Warm- up Time	min	20		
Power Consumption	W	<90	<200	@Pout max
Interface		USB and RS232		
Control Mode		ACC		
GENERAL				
Dimensions	mm	215 x 150 x 51		w/o heat sink
Storage Temperature	°C	-20 to 65		
Operating case temp.	°C	-10 to 50		
Humidity	%	5 to 95		Non condensing

CUSTOMIZATION

The **SKYLIGHT** is a laser platform that can be customized to match Customer's 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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