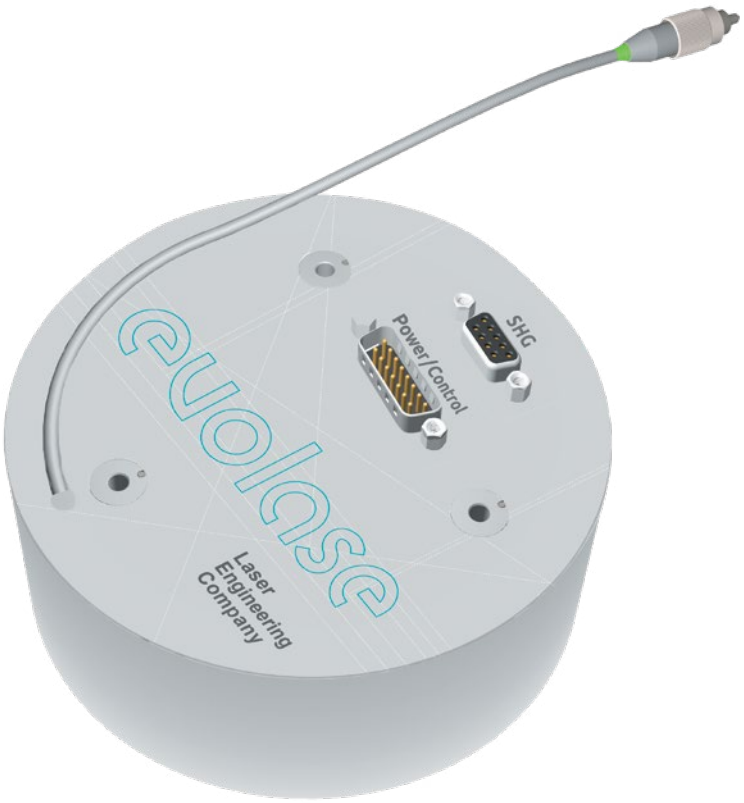
EVO-UC-NS

NANOSECOND
FIBER LASER



EVO-UC-NS-1064

with central wavelength of 1064 nm
for environmental Lidar applications

EVO-UC-NS-532

with central wavelength of 532 nm
for underwater or cross water
Lidar applications

Specifications

Main specifications		
Wavelength	1064 nm	532 nm
Output power	3 W	0.6 W
Repetition rate	10 kHz–1 MHz	
Max pulse energy	> 25 uJ	> 8 uJ
Pulse duration	0.7–4 ns	
Optical output	10/125 fiber with FC/APC connector	Free space, collimated beam
Operating requirements		
Operating voltage	24 VDC	
Control interface	RS232, Connectors D-SUB Combination 7W2	
Physical characteristics		
Dimensions	cylinder (D) 127 mm; height (H) 50 mm	
SHG dimensions	130×80×80 mm	

Key features

Narrow Pulse Width, High Spatial Resolution

The EVO-UC-NS series pulsed fiber lasers deliver pulses with duration tunable from the true subnanosecond range (0.7–0.9 ns) up to 5 ns to meet the high spatial resolution requirements of LIDAR systems.

High Average Power, High Pulse Energy, Flexible Repetition Rate

The EVO-UC-NS series pulsed fiber lasers can produce an output average power of >3 W at 1064 nm. The pulse energy of the 532 nm module is >2 µJ at 300 kHz repetition rate, with the repetition rate being adjustable from 10 kHz to 1000 kHz.

Robust, Compact and Lightweight

The 1064 nm EVO-UC-NS is provided with a cylindrical housing with an external compact fiber coupled second harmonic generation module, which could be detachable.

The laser is extremely compact, durable and reliable with minimal power consumption, ensuring a prolonged lifespan with minimal operational expense, and ease of integration into Lidar systems.

Exceptional performance stability

EVO-UC-NS series pulsed fiber lasers boasts exceptional performance stability and is tested to sustain vibration and mechanical shocks as well as thermal cycling to comply with IEC 68-2-27 and IEC 68-2-6 standards.

Drawings