

## CoLID-I 1064nm Short Pulse Fiber Laser for LiDAR



### Product Description:

The CoLID series 1064nm pulsed fiber laser of Connet is a laser source delivering high peak power and high pulse energy. Using MOPA configuration and all-fiber optimized design, the laser can offer the high peak power and the near diffraction-limit quality output beam.

Connet CoLID series 1064nm pulsed fiber laser (CoLID-I-1064) employs the mini disc type module package in compact and rugged design, integrated with the internal trigger and the output monitor for synchronization. The external trigger mode is also available for use. It is easily deployed and maintenance-free, ensuring a long-life and cost-effective operations. The pulse width and the repetition rate of the laser can be adjusted by connecting to the computer. It is quite suitable for system integration.

### Applications:

- LiDAR
- Range finding
- Target detection
- 3D scanning
- Telemetry

### Features:

- High peak power: up to 10kW
- Average power: up to 2W
- Repetition rate adjustable: 30-500kHz
- Pulse energy: up to 50uJ
- Excellent beam quality

## Specifications:

Parameter	Unit	Specification		
		Min	Typ.	Max
Part no.		<b>CoLID-I-1064</b>		
Center wavelength	nm	1059	1064	1069
Pulse energy	μJ	-	-	50
Peak power	kW	-	-	10
Average power	W	-	-	2
Pulse width	ns	1	-	50
Repetition rate	kHz	30	-	500
Beam quality	M <sup>2</sup>	<1.1		
Polarization		Random		
Output power stability <sup>1</sup> (8hrs)	%	-	±2	±3
Output isolator		No		
Operating temperature	°C	-35	-	+65
Storage temperature	°C	-40	-	+85
Power consumption <sup>2</sup>	W	-	-	24
Operating voltage	V <sub>DC</sub>	12		
Trigger mode		Internal or External TTL Trigger		
Output fiber length	m	>0.3		
Optical connector		FC/APC or Collimator		
Weight	g	<300		
Dimension	mm	90x23.5 (DxH)		

## Specifications:

- The output power stability is measured under 25°C after 30 minutes' warm-up.
- Power consumption is related to output power and operating conditions.

## Ordering Information:

- CoLID-I-1064-XX-YY-ZZ-FA
- XX: Pulse width in ns
- YY: Repetition rate in kHz
- ZZ: Peak power in kW
- FA: FC/APC connector, Collimator (Col) is optional.
- Example: CoLID-I-1064-02-200-04-FA

CoLID-I 1064nm Short Pulse Fiber Laser, 2ns pulse width, 200kHz repetition rate, 4kW peak power, FC/APC connector