

NEW Monolithic Direct-Pumped Pulsed Fiber Laser Harness

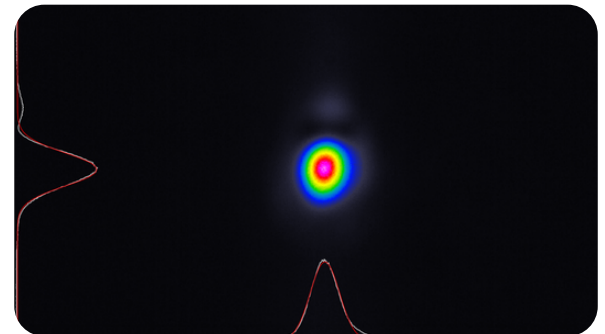
By maintaining an all-fiber construction, CPTEC eliminates the need for alignment and prevents contamination of critical components. This reduces the effects of thermal lensing and mechanical sensitivity in comparison to bulk amplifiers while also minimizing self-phase modulation.

Based on Exail's VLMA fiber (IXF-VLMA-40-220-PM-YB-V1), CPTEC leverages the excellent ultrafast performance and mode-filtering qualities of the gain fiber. The all-fiber design means there are no free-space input optics to worry about, achieving true "splice-and-go" operation.

Features

- All-fiber design
- Compact and Lightweight
- No free-space coupling
- Alignment insensitive
- Space-qualified design
- Integrated collimator

Optical	Unit	Specification
Gain, Bandwidth	nm	1020-1080nm
Gain	dB	30 @ 1064nm
Output Power, CW	W	up to 200W
Peak Power	kW	<1000
Beam Quality	M ²	<1.2
PER	dB	>20
Input		
Pump Power	W	<500
Pump Fiber	um	200/220 0.22NA
Wavelength	nm	976 (stabilized)
Seed Power	mw	10-10000
Signal Fiber	um	PM14/125 or 25/250 DC
Mechanical		
Dimensions (LxWxH)	mm	220 x 220 x 11
Weight	kg	<1
Environmental		
Operating Temperature	°C	10 to 40
Storage Temperature	°C	-20 to 60
Water Cooling	°C	20



Applications

- Ultrafast Amplifiers
- Material Processing
- LIDAR/LADAR
- Digital Laser Array
- Medical Processes

