

Polarian-BASE

ULTRAFAST PUMP LASER



FEATURES

- 1064 & 1940nm Wavelengths
- Advanced Thermal Management
- Electronics, Pre-Amp and Safety
- Up to 400W CW Power
- Intuitive GUI
- Internal or External Seed

THE FOUNDATION OF ULTRAFAST



ULTRAFAST POWER

The Polarian-BASE™ combines seed amplification, pump laser, thermal management, control electronics, and an intuitive graphical user interface into a single, compact unit. From FC/APC seed input to high-power optical output, it delivers a fully integrated optical engine.

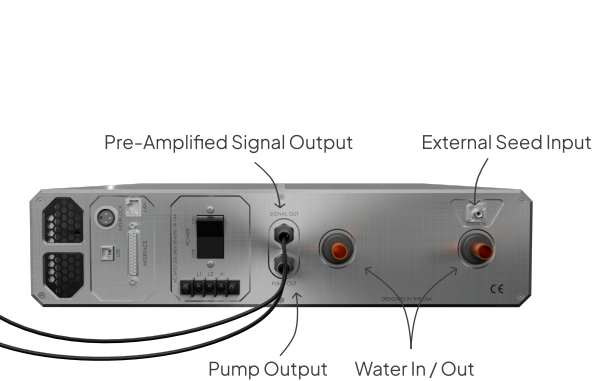
Designed for both standalone use and seamless system integration, Polarian offers uncompromising performance in a streamlined, user-friendly form.

INDUSTRIES

- Semiconductor & Micro-Fabrication
- Medical Devices & Life Sciences
- Aerospace & Space Systems
- Defense & Navigation
- Scientific Research & Labs
- Industrial Manufacturing

APPLICATIONS

- Ultrafast Pumping
- Large-Area Surface Processing
- Material Processing
- LIDAR/LADAR
- Digital Laser Arrays
- Medical Processes
- High Energy CBC Arrays



Polarian-BASE paired with a CPTec Amplifier

COMING SOON—INTEGRATED SEEDS

Fully integrated nano, pico- and femtosecond seed units directly inside the Polarian-BASE.

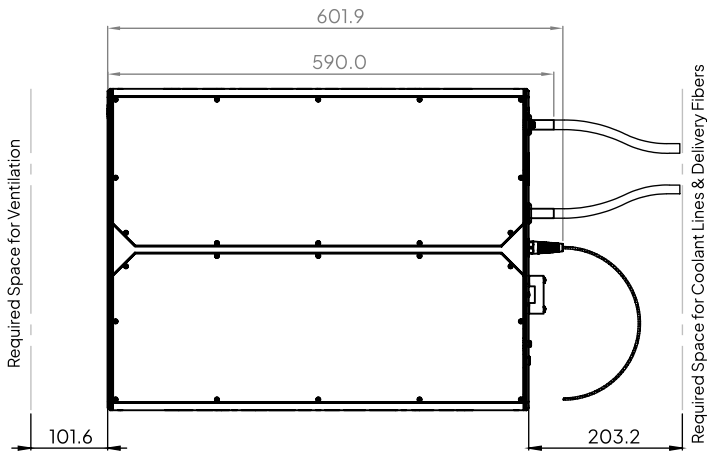
- Ultrafast seed laser built into the Polarian-BASE — no external seed required
- Pair with a CPTec amplifier for a complete, turnkey ultrafast laser system
- Single-vendor solution from seed to amplified output

PERFORMANCE SPECIFICATIONS

Optical		Polarian-BASE			
Center Wavelength (nm)		1064/1940			
Air-Cooled CW Power (W)		<150			
Water-Cooled CW Power (W)		<400			
Beam Pointing Stability (urad)		<10			
Seed Connector		FC/APC			
Seed Input Power (mW)		10-100			
Electrical		TGF			
Supply Voltage (VAC)		100-240			
Power Consumption (W)		<750			
Environmental		TGF	2 μ m	VLMA	3C
Operating Temperature (°C)		10-40			
Storage Temperature (°C)		-20-60			
Weight (kg)		<25			

MECHANICAL SPECIFICATIONS

TOP VIEW



FRONT VIEW



SIDE VIEW



REAR VIEW

