

FLAST-UltrafastTera Terahertz Pumping Ultrafast Fiber Laser Source



FiberLAST's Fs Erbium series is a compact high peak power femtosecond laser system with excellent beam quality, high stability, and compact architecture that produces short pulses (≤ 50 fs) at 1.55 μm wavelength band. Combining these ideal characteristics makes FLAST-UltrafastTera series fiber laser useable for various fundamental applications such as, THz generation, biophotonics, material characterization, medicine, and nonlinear optics.

The laser architecture is designed with PM fiber components ensuring excellent stability and low noise. Optional features of two optical outputs expands the scope of applications even further.

Easy and seamless control of functions, such as laser enable, adjustment output power, temperature, and pulse duration, are accessible using via PC interface. The LED indicators on the panel shows the status of the system and the status of the mode-locking regime. The signal output is provided with a collimator, APC connector or a beam expander optionally.

Each system is shipped with a datasheet that shows the pulse autocorrelation signal and an optical spectrum of the output pulses.

Applications

- Terahertz generation & terahertz physics
- Ultrafast spectroscopy
- Supercontinuum generation
- Material characterization
- Seed source for ultrafast laser systems



Features

- Proprietary and unique design
- 7/24 operation
- Maintenance free
- Air cooling
- Low energy consumption
- High beam quality
- Humidity & temperature monitoring
- Power electronics control
- Built-In-Test (BITE) and log record
- Ready, error and operation indicators
- 10 years spare parts & service guarantee

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	Optical Parameters	
Brand / Model	FiberLAST / FLAST-UltrafastTERA 2 Port	FiberLAST / FLAST-UltrafastTERA 1 Port
Laser Type	Er (Erbium) Fiber Laser	Er (Erbium) Fiber Laser
Operation Mode	Pulsed	Pulsed
Wavelength	1565 nm \pm 20 nm	1575 nm \pm 20 nm
Repetition Rate	97 MHz ^x	52 MHz ^x
Average Power	125 mW \pm 5 mW (Each Port)	255 mW \pm 5 mW
Pulse Energy	1,3 nJ \pm 0,2 nJ	5 nJ \pm 0,2 nJ
Pulse Width	50 fs \pm 10 fs	50 fs \pm 10 fs
Polarization	Linear, PM Fiber	Linear, PM Fiber
Laser Output Ports	2	1
Laser Output	Collimator	Collimator
Output Beam Diameter (After the collimator)	0,75 mm	0,75 mm
Beam Expender	Optional	Optional
	General Futures	
Dimensions (WxDxH)	620 x 530 x 105 mm	530 x 370 x 115 mm
Weight	28 \pm 0,5 Kg	15 \pm 0,5 Kg
Operating Temperature Range	10 / 40 °C	
Operating Voltage	177-264 VAC	

**A specific combination of average power and repetition rate up to 100 MHz (50-100 MHz range)*

FiberLAST Fiber Lazer Sistemleri ve Teknolojileri A.Ş.

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