FEMTOSECOND FIBER LASERS

Applications
- *Nonlinear optics*
- *Optical-parametric-oscillator (OPO) pumping*
- *Supercontinuum generation*
- *Quantum communications*
- *Optical sampling*

- *>10 kW of peak power*
- *<100-fs pulse duration*
- *$26,000*

These robust turn-key femtosecond fiber lasers offer exceptional performance for a variety of applications from nonlinear optics to quantum communications. With a base price of $26,000, they offer the best in performance for the price: the shortest pulse durations (<100 fs), the highest output powers (>10 kW peak), and low timing jitter of less than 150 fs (100 Hz to 10 MHz). A unique all-fiber-integrated solution composed of robust telecommunication components and a state-of-the-art dispersion management scheme enables nearly transform-limited pulses and stable turn-key performance. Available options include: additional output at 780 nm, supercontinuum generation from 1200-2000 nm, synchronization to external clocks, and low-cost version with >6 mW of output power and <250-fs pulse durations.

- *Central wavelength at 1560 nm*
- *Superior value with >40 mW and <100 fs starting at $26,000*
- *Low-cost version with >6 mW and <250 fs*

Preliminary Specifications	
KEY FEATURES	
Central Wavelength Range (fixed) 1560±10 nm	*Output Power* >40 mW
Repetition Rate 40±10 MHz	*Peak Output Power* >10 kW
Pulse Width <100 fs	*RMS Timing Jitter* <150 fs (over 100 Hz to 10 MHz)
Spectral Width >24 nm	Dimensions: 19" rack 2U Turnkey operation
OPTIONS	
Low-cost version (contact us for price) Output at 1560 & 780 nm Supercontinuum from 1200-2000 nm Synchronization to external clocks	
BASE PRICE: $26,000.	

precisionphotonics

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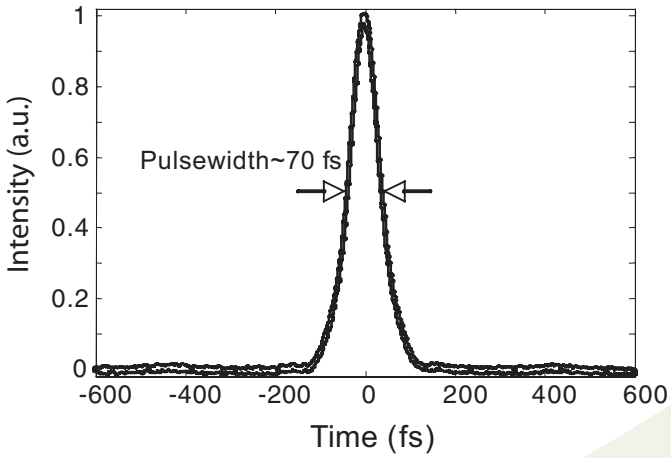
Typical Autocorrelation Trace & Optical Spectrum

LASER DATA SHOWN BELOW

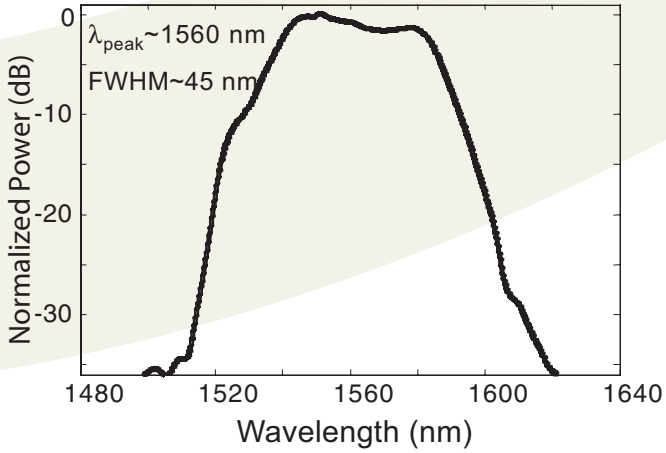
Central Wavelength: 1560 nm
Pulse Width: 70 fs
Spectral Width: >45 nm
Output Power: >40 mW

Autocorrelation Trace



- *Clean ultrafast pulses for time-domain applications*
- *High-peak powers—ideal for nonlinear optics*
- *Minimal pedestal*

Optical Spectrum



- *Wide spectral bandwidth for OCT applications*
- *Ideal for component testing*
- *Supercontinuum generation from 1200–2000 available*