

Femtolite Ultra Family

Erbium-doped Femtosecond Fiber Lasers



Femtolite Ultra Laser Head

Product Features

- Compact and robust design for easy integration
- Proven reliability of Femtolite series since market introduction in 1995
- Meets stringent mechanical reliability requirements
- Complies with IEC 60068-2-27 and 60068-2-6 standards for shock and vibration
- Simple operation by controller panel or 5 V digital input

Product Models

	AX-20	BX-60	CX-20*		FX-10
Center Wavelength	780 ± 5 nm	1560 ± 5 nm	780 ± 5 nm	1560 ± 10 nm	810 ± 5 nm
Average Power	≥ 20 mW	≥ 60 mW	≥ 20 mW	≥ 20 mW	≥ 10 mW
Pulse Duration	≤ 100 fs	≤ 100 fs	≤ 100 fs	≤ 100 fs	≤ 110 fs
Repetition Rate	50 MHz				

*Simultaneous, synchronized pulses at both wavelengths

Femtolite **Ultra** Specifications

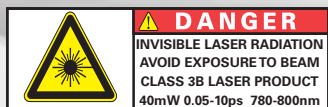
Polarization	Vertical with respect to baseplate
Power Stability	$\leq 1\%$ rms after stabilization over $\pm 1\text{ }^\circ\text{C}$
Laser Head Dimensions	142 x 96 x 38 mm ³
Output Aperture Height	23 mm
Laser Head Weight	0.8 kg
Controller Dimensions	215 x 200 x 89 mm ³
Controller Weight	2 kg
Operating Voltage	100-240 VAC at 50-60 Hz
Power Consumption	< 50 W

Other Parameters

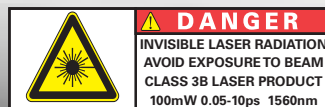
- Operating Temperature: 15-35 °C
- Storage Temperature: 0-50 °C
- Warm-up Time: ≤ 30 minutes
- Cable Length: 2 m



Femtolite Ultra Complete System



AX-20 Warning Label



BX-60 Warning Label



CX-20 Warning Label



FX-10 Warning Label

Femtolute F/H Family

Erbium-doped Femtosecond Fiber Lasers



FX-100i (left) and HX-150 (right) Laser Heads

Product Features

- HX-150 model offers **adjustable power at dual wavelengths**
- FX-100i model offers **extremely small footprint**
- Compact and robust design for easy integration
- Mechanical reliability complies with MIL-STD-810F and IEC 60601-1 standards
- Simple on/off operation by controller panel or RS-232 interface
- Regulatory certifications available

Product Models

	FX-100i	FX-150	HX-150	
Center Wavelength	805 ± 15 nm	810 ± 15 nm	810 ± 15 nm	1620 ± 40 nm
Average Power	≥ 100 mW	≥ 150 mW	≥ 150 mW*	≥ 200 mW*
Pulse Duration	≤ 120 fs	≤ 120 fs	≤ 140 fs	≤ 100 fs
Repetition Rate	75 MHz			

*At maximum setting

Femtolite F/H Specifications

FX-100i
805 nm

FX-150
805 nm

HX-150
810 nm 1620 nm

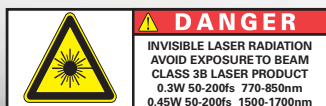
Polarization	———— Vertical with respect to baseplate ————		Horizontal
Power Stability	≤ 1% rms after stabilization at 25 °C		
Laser Head Dimensions	142 x 98 x 76 mm ³	230 x 193 x 76 mm ³	
Output Aperture Height	57 mm	43 mm	
Laser Head Weight	1.4 kg	3 kg	
Head Heat Dissipation	< 50 W		
Controller Dimensions	307 x 207 x 135 mm ³		
Controller Weight	7 kg		
Operating Voltage	100-240 VAC at 50-60 Hz		
Power Consumption	< 250 W		

HX-150 Wavelength Adjustment

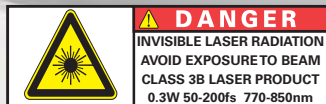


Other Parameters

- Operating Temperature: 20-30 °C
- Storage Temperature: 0-50 °C
- Warm-up Time: ≤ 15 minutes
- Cable Length: 2 m



HX-150 Warning Label



FX-100i, FX-150 Warning Label

FX-100i Complete System

