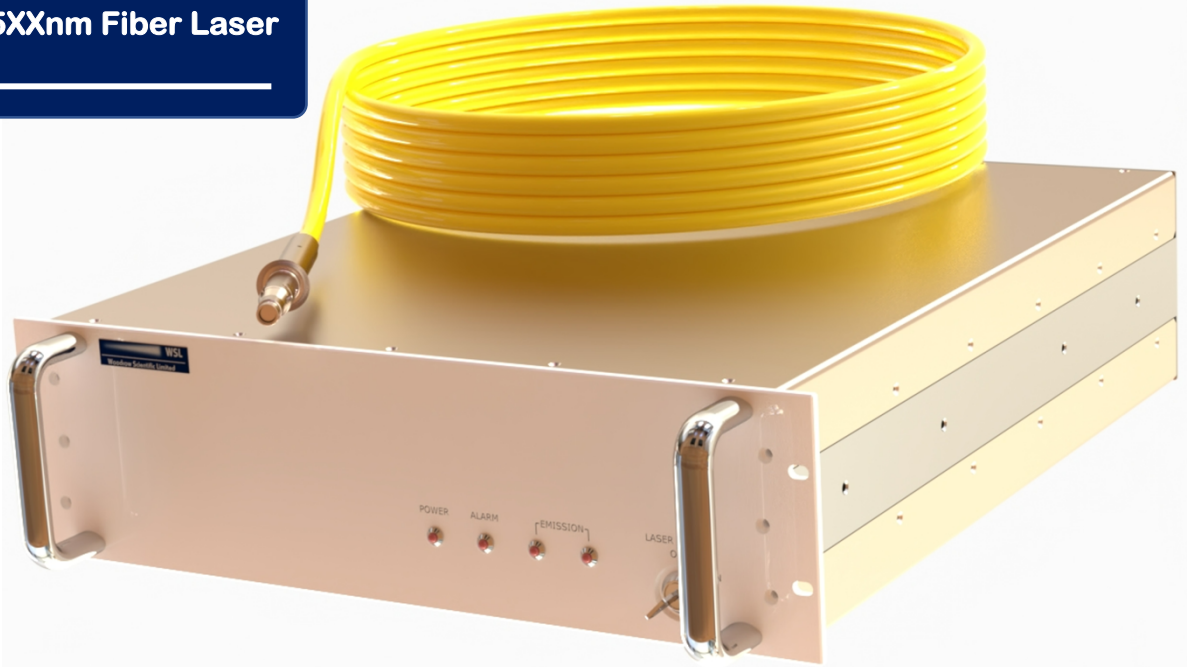


# EDF100

Short Pulse 15XXnm Fiber Laser



## Product Features

- Retina-safe wavelength
- Reduced Hazard Zone
- Short Pulse 100ns-500ns
- Pulse Energy >10mJ
- Average Power > 100W
- Long Delivery Cable
- Water Cooled

## Applications

- Surface Cleaning
- Paint Removal
- Texturing
- Marking
- Medical Applications
- LIDAR
- Remote Sensing

## High Pulse Energy 15xxnm Fiber Laser

Operating at a “Retina-Safe” wavelength, WSL’s EDF range of 15xxnm short-pulse fiber lasers enable integration into industrial, medical and scientific applications with **reduced hazard zone** and without compromising performance.

Delivering pulse energies greater than 10mJ, peak powers of more than 100-kWatts and average powers of more than 100-Watts, the EDF is the highest power Erbium-doped fiber laser commercially available.

The EDF platform can be customised to meet a wide-range of applications including high-precision marking as well as LIDAR and remote sensing.

# EDF100 Product Platform

Model	EDF100-2	EDF100-4	EDF100-10
<b>OPTICAL SPECIFICATIONS</b>			
Max Pulse Energy	>2mJ	>4mJ	>10mJ
Average Power <sup>1</sup>	100 Watts		
Repetition Rate	10kHz to 100KHz		
Repetition Rate (Max Energy)	50kHz @ 2mJ	25kHz @ 4mJ	10kHz @ 10mJ
Wavelength	1565-1590nm		
Power Tunability	0 to 100%		
Laser Beam Quality (M <sup>2</sup> ) <sup>2</sup>	<3	<6	<12
Pulse Duration <sup>3</sup>	120 – 400 ns		
Pulse Shape	Gaussian-Like		
Power Stability	<2%		
<b>FIBER DELIVERY</b>			
Standard Cable Length <sup>4</sup>	10m	10m	15m
BDO Cooling	Passive		
Beam Diameter	5 – 9 mm		
Beam Ellipticity	90%		
<b>ELECTRICAL, MECHANICAL &amp; INTERFACES</b>			
Supply Voltage	110-250 VAC		
Power Consumption (100W)	<750 Watts		
Control Interfaces	USB, RS232, Parallel I/O (for Scan Controllers)		
Cooling	Water		
Dimensions (w x d x h)	3U Height 19" Rack Mounted 482.5 x 550 x 133 mm		
Weight	29.5 kg		

- 1- Higher power up to 200 Watts available – please contact Woodrow Scientific
- 2- Diffraction-limited (M<sup>2</sup> <1.15) laser options available on request
- 3- Maximum pulse energy achievable at > 200nanoseconds
- 4- Custom lengths of output cable available on request

Woodrow Scientific has a continuous technology development programme to ensure our products operate at the highest performance and quality levels. As a result, the specifications in this document are subject to change without notice



The EDF100 Platform operates at an “Eye-safe” wavelength. “Eye-safe” operation means that the eye-damage threshold is higher than for other wavelengths (for example 1064nm Ytterbium doped fiber lasers). Woodrow Scientific recommend that appropriate eye wear should be worn, and laser-safety procedures followed at all times.



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