

# Cyclone

## Broad Bandwidth Fiber Laser with Extremely Short Femtosecond Pulses

The Cyclone is a broad bandwidth femtosecond fiber laser. It provides the shortest pulses on the market generated by a fiber laser, less than 25 fs pulses. Cyclone provides outstanding peak power (> 75 kW) over a wide spectrum of 950-1150 nm.

It is a cost-effective, maintenance-free femtosecond fiber laser with best-in-class performance.

These parameters allow for increased brightness and reduced photodamage, making the Cyclone laser perfect for multiphoton microscopy, SHG microscopy and a variety of other non-linear processing and spectroscopy applications.

### Optical Peak Power

> 75 kW\*

### Spectral Range

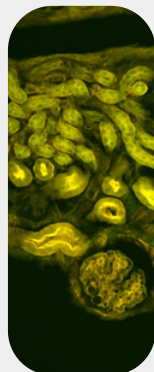
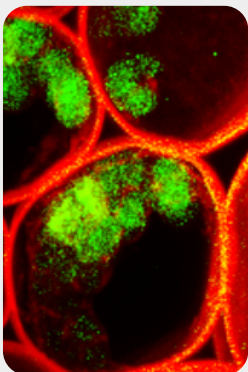
950-1150 nm

### Pulse Duration

< 25 fs\*



## / Applications



Two-photon microscopy

SHG microscopy

Non-linear processing and spectroscopy

# Cyclone

## / Technical Specifications

**Spectral Range:** 950-1150 nm     
 **Optical Peak Power:** > 75 kW\*     
 **Pulse Duration:** < 25 fs\*

Repetition Rate:	80 MHz*
Power Stability:	<0.5% over 3 h (std. dev.)
Average Power:	>150 mW*
Polarization:	Unpolarized
Output Port:	Free space
Optical Output:	Collimated, single-mode across full spectrum
Beam Diameter:	2.4 mm (1/e <sup>2</sup> at 1064 nm)
Spatial Mode Quality (M <sup>2</sup> ):	< 1.2
Cooling:	Thermoelectric cooler + air cooling
Dispersion Pre-Compensation:	-4000 fs <sup>2</sup> to +2500 fs <sup>2</sup>
Power Requirements:	220 V / 110V - 50/60 Hz
Operating Temperature:	20 - 30 °C
Storage Temperature:	0 - 60 °C
Dimensions:	436x560x151 (WxDxH)
Control Software:	User-friendly



436 mm

151 mm



560 mm

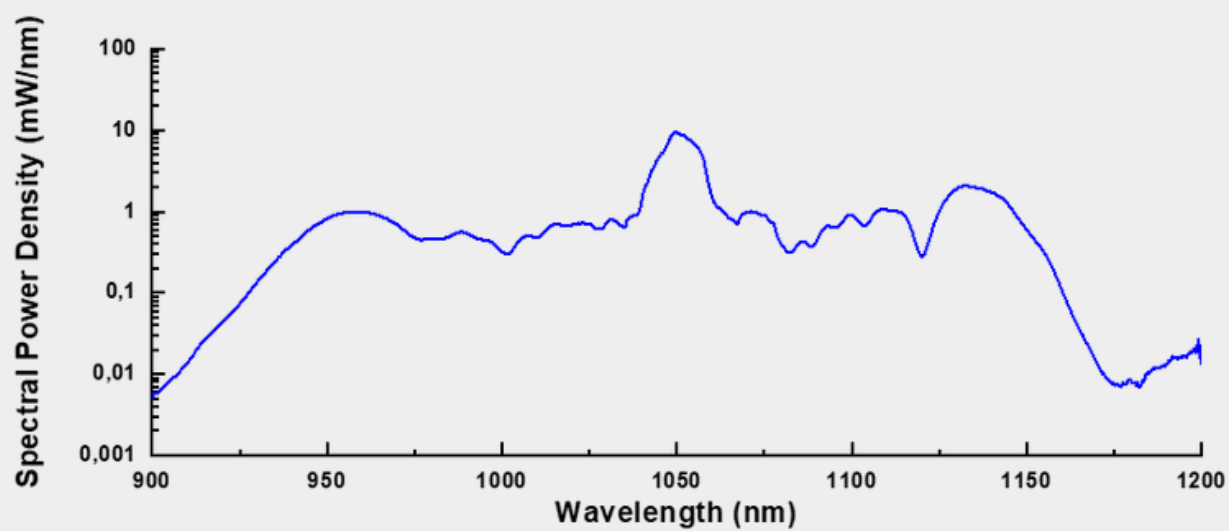
\*Values of the compressor output

OTHER DETAILED SPECS UNDER REQUEST

Rev. 01

# Cyclone

## / Optical Spectrum



# Cyclone

## / Additional information



Laser Security:

This product is a Class 3B laser.

Appropriate safety measures according to such laser class should be taken in its installation and use.

Warranty:

12 months warranty.

Extended warranty on request.

## / FYLA contact

Sales contact

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