

Cyclone

Broad Bandwidth Fiber Laser with Extremely Short Femtosecond Pulses

The Cyclone is a broad bandwidth femtosecond fibre laser. It provides the shortest pulses on the market generated by a fibre laser, less than 20 fs pulses. Cyclone provides outstanding peak power (>120 kW) over a wide spectrum of 900-1200nm.

It is a cost-effective, maintenance-free femtosecond fibre 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

> 120 kW

Spectral Range

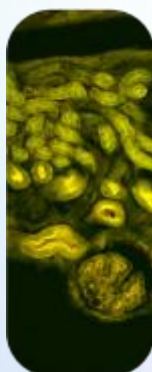
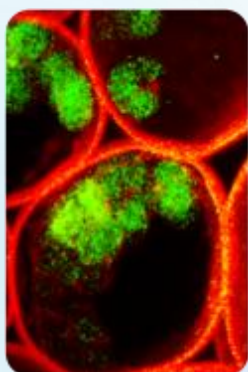
950-1150 nm

Pulse Duration

15-20 fs



/ Applications



Two-photon microscopy

SHG microscopy

Non-linear processing and spectroscopy

Cyclone

/ Technical Specifications

Spectral Range:

950-1150 nm

Optical Peak Power:

> 120 kW

Pulse Duration:

15-20 fs

Repetition Rate:

80 MHz

Power Stability:

<0.5% over 3 h

Average Power:

>150 mW

Polarization:

Unpolarized

Output Port:

Free space

Optical Output:

Collimated , single-mode across full spectrum

Beam Diameter:

2.4 mm (1/e² at 1064 nm)

Spatial Mode:

< 1.2 Fundamental Gaussian

Cooling:

Conductive

Dispersion Pre-Compensation:

-4000 fs² to +2500 fs²

Power Requirements:

220 V / 110V - 50/60 Hz

Operating Temperature:

20 - 30 °C

Storage Temperature:

0 - 60 °C

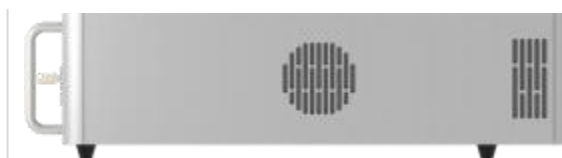
Dimensions:

436x560x151 (WxDxH)



151 mm

436 mm

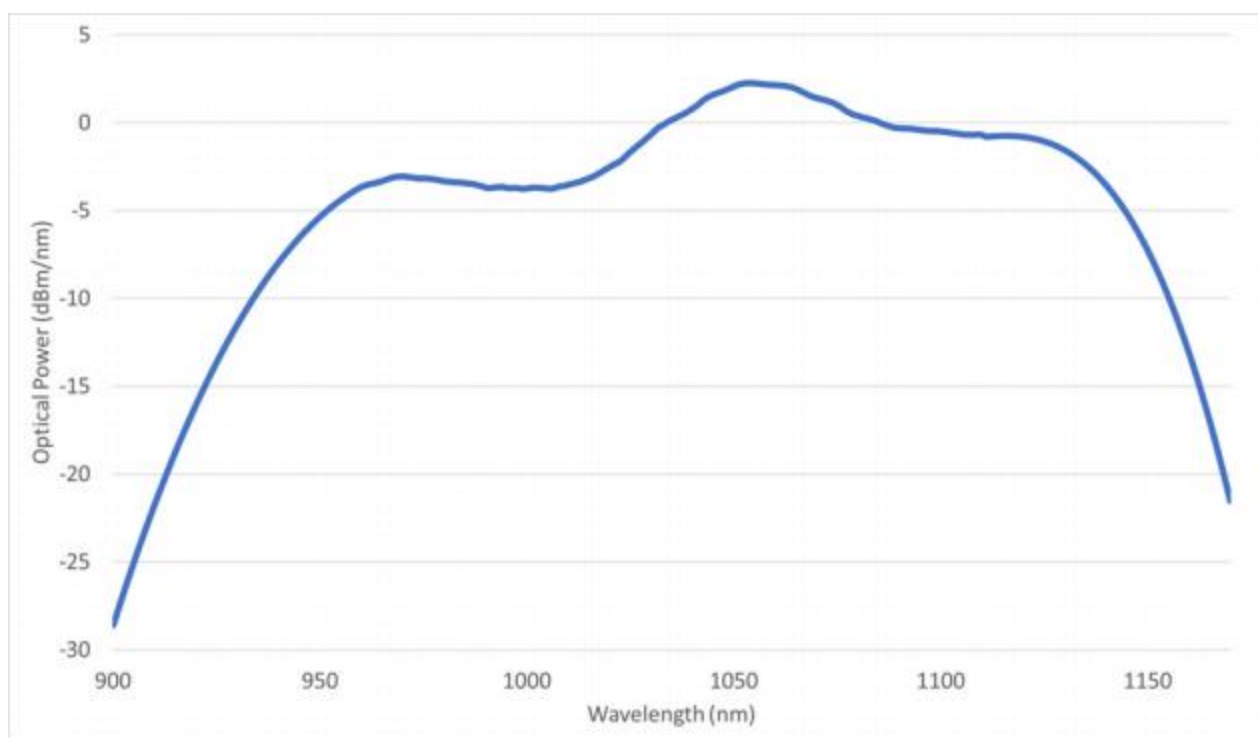


560 mm

OTHER DETAILED SPECS UNDER REQUEST

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:

24 months warranty or > 10,000h of continuous operation.

Extended warranty on request.

/ FYLA contact



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