

Pulsar

Extreme Pulse Control & Tunability

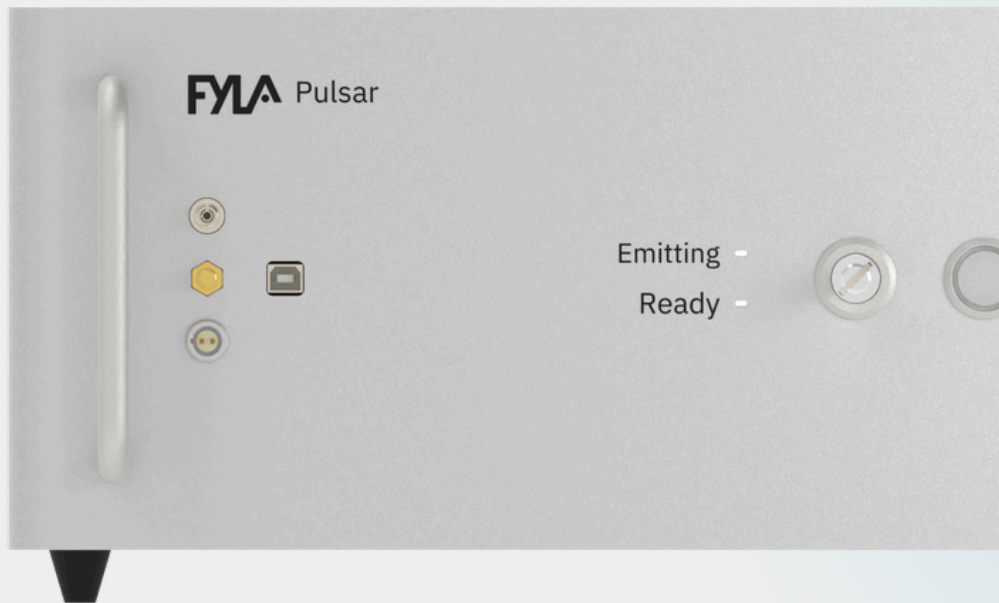
Pulsar is a complete laser system enabling pulse energy and repetition rate tunability, offering the user an unmatched level of versatility. With the independent adjustment of three key parameters: repetition rate (MHz to 1 Hz), pulse energy (10 pJ to 10 nJ), and pulse duration (≤ 300 fs).

Pulsar is an ideal laser for nonlinear optics applications, especially two-photon and three-photon absorption spectroscopy and microscopy.

/ Highlights

Pulse Energy Selection

Repetition Rate Selection

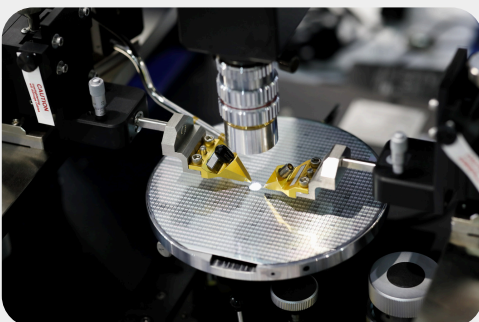


Repetition Rate
Tunability (Pulse Train):
1 Hz to 10 MHz

Pulse Duration:
 ≤ 300 fs

Pulse Energy Tunability:
10 pJ to 10 nJ

/ Applications



TPA- TCT

Two-photon and three-photon
absorption spectroscopy and
microscopy.

Pulsar

/ Technical Specifications

Repetition Rate Tunability (Pulse Train):

1 Hz to 10 MHz

Pulse Duration:

≤ 300 fs

Average Power:

100 mW @10 MHz

Pulse Duration:

≤ 300 fs

Central Wavelength:

1560 nm

Repetition Rate:

10 MHz (Fundamental)

Power Stability:

< 1 % (std. dev.)

Polarization:

Linearly Polarized

Optical Output:

Free space

Synchronization / Connections:

TTL (SMA) - USB - Interlock

Beam Diameter:

2.1 mm or 3.5 mm (1/e²)

Spatial Mode Quality (M²):

< 1.2

Cooling:

Thermoelectric cooler + air cooling

Power Requirements:

220 V / 110V - 50/60 Hz

Operating Temperature:

20 - 30 °C

Storage Temperature:

0 - 60 °C

Electromechanical Shutter Output:

Rise-time: 1 ms, Sync. to Pulse train

Control Software:

User-friendly

Pulsar

/ 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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