

Pulsar

Extreme Pulse Control & Tunability

Pulsar is a complete laser system enabling extreme pulse control and tunability, offering the user an unmatched level of versatility. With the independent adjustment of three key parameters: repetition rate (MHz to single shot), pulse energy (10 nJ to 10 uJ), and pulse width (300 to 600 fs).

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

/ Highlights

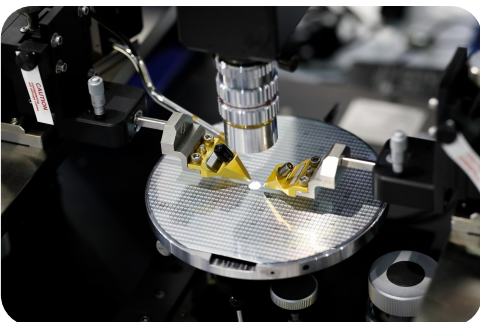
- Pulse Width Selection
- Monitor Phase + Amplitude
- Pulse Energy Selection



Repetition Rate Tunability (Pulse Train):
Single Shot to 10 MHz

Pulsewidth Tunability:
200 fs to 600 fs

/ Applications



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

Pulsar

/ Technical Specifications

Repetition Rate Tunability (Pulse Train):
Single Shot to 10 MHz

Pulsewidth Tunability:
200 fs to 600 fs

Average Power:	> 100 mW @10 MHz
Pulse Duration:	120 fs
Spectral Range:	1560 nm
Repetition Rate:	10 MHz (Fundamental)
Power Stability:	< 1 % (std. dev.)
Polarization:	Linearly Polarised
Output Port:	1.5 m
Optical Output:	Free Space
Synchronization / Connections:	USB (comms) - BNC trigger output - Interlock
Beam Diameter:	2.1 mm or 3.5 mm (1/e ²)
Spatial Mode:	< 1.2
Half-angle Beam Divergence:	0,032° (at 1560 nm)
Cooling:	Integrated Peltier + 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

OTHER DETAILED SPECS UNDER REQUEST

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:

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

Extended warranty on request.

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