

1000 Hz
repetition rate



The new kHz tunable wavelength laser system is available from EKSPLA. Integrated in a single compact housing diode pumped Q-switched laser and OPO systems offers no-gap tuning from 210 to 2300 nm. Offering 1000 Hz repetition rate NT200 series laser establishes itself as a versatile tool for many laboratory applications. Efficient UV conversion makes NT200 series systems an excellent choice for a wide range of applications including; spectroscopy, photobiology, laser induced fluorescence, photolysis, remote sensing, LIDAR and many others. As a standard feature the system has a separate output for the 355 nm

pump beam. Outputs for 1064, 532 and 266 nm are available on request as well as other customized options. Virtually no warm-up time (few seconds) and OPO pump energy monitoring ensure customer friendly and reliable operation of the whole system. The system features simple operation, monitoring of output parameters and convenient integration into measurement setups. NT200 series systems are controlled from computer using supplied LabView drivers and/or user-friendly remote control pad. The control pad allows easy control of all the parameters and features on a backlit display which is easy to read even through laser safety goggles.

NT200 SERIES

NT200 Series

1000 Hz Tunable Wavelength Laser

Integrated OPO and DPSS Q-switched Laser

FEATURES

- No gap wavelength tuning from 210 to 2300 nm
- Unprecedented 1000 Hz repetition rate
- More than 50 mW output power in UV
- 5 cm⁻¹ linewidth
- 5 – 10 ns pulse duration
- Remote control pad
- PC control via RS232 and LabView drivers
- OPO pump energy monitoring
- Air cooled

APPLICATIONS

- Laser induced fluorescence
- Photolysis
- Photobiology
- Remote sensing
- LIDAR
- Nonlinear optical materials research
- Your application is welcome...

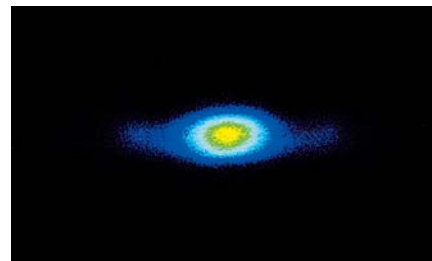
SPECIFICATIONS

MODEL	NT242
OPO	
Wavelength range, nm	
Signal	420–709
Idler	710–2300
UV ¹⁾	210–419
Linewidth, cm ⁻¹	< 5
Scanning step, nm	
Signal	0.1 ²⁾
Idler	1
UV	0.05 ²⁾
Polarization	
Signal beam	horizontal
Idler beam	vertical
UV beam	vertical
PUMP LASER	
Pump wavelength, nm	355
Max pump pulse energy, mJ	3
Pulse duration, ns	5–10
Pulse repetition rate, Hz	1000
Beam divergence, mrad	<3
Pulse energy stability (StdDev), %	<3.5
PHYSICAL CHARACTERISTICS	
Unit size (W×H×L), mm	446×260×800
Power supply size (W×H×L), mm	472×460×490
Chiller size (W×H×L), mm	378×675×600
Umbilical length, m	2.5
OPERATING REQUIREMENTS	
Cooling	Water-air, no tap water required
Room temperature, °C	15–30
Relative humidity (noncondensing), %	20–80
Voltage	208–240 VAC, single phase 50/60 Hz
Power, kVA	2.5

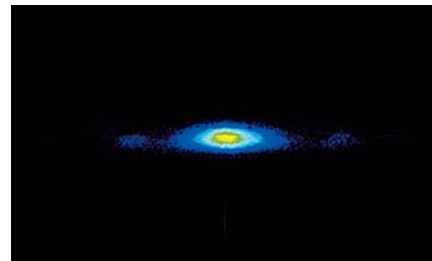
¹⁾ UV extension is pumped by OPO signal beam.

²⁾ 0.01 nm scanning step is available.

Specifications are subject to changes without advance notice.



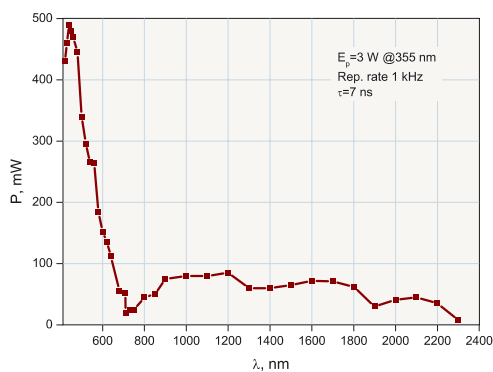
Near field



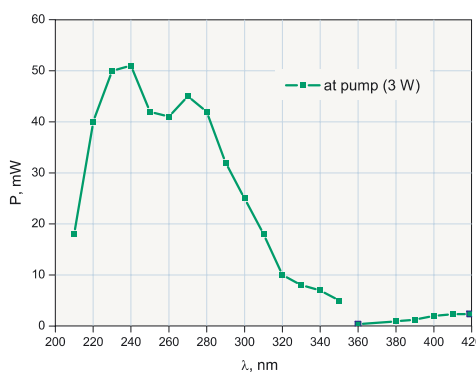
Far field

Typical beam profiles

**Requests
for custom
made products
are welcome.**



Typical NT200 tuning curve



Typical tuning curve of NT200 second harmonic



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