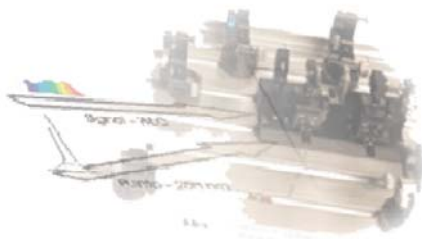


## NPA-30F

### Nonlinear Optical Parametric Amplifier



*NPA-30F* is a white light continuum seeded optical parametric amplifier (NOPA) able to generate extremely short pulses. The tuneable range covers extremely broad range with no change in optics.

### APPLICATIONS

- Molecular spectroscopy
- Photochemistry
- Biophysics
- Solid state physics
- Material science

### FEATURES

- Pulses as short as, <30fs typical
- Near TEM<sub>00</sub> output mode
- White light continuum seeded for high stability
- Compact design
- Perfect for upgrade of existing femtosecond setups

### Includes :

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- Complete set of power and connecting cables for operation of the equipment in a laboratory environment.

## TECHNICAL SPECIFICATIONS

NPA-30F – SH	
Wavelength range:	630 nm - 940 nm, and 315nm - 470 nm
Energy per pulse:	<b>7 to 20μJ</b>
Polarization, signal:	<b>Linear, horizontal</b>
NPA-30F – C	
Wavelength range:	630 nm.... 940 nm, и 315nm ...470 nm
Energy per pulse:	>7uJ for 630 nm.... 940 nm
Pulsewidth:	<= 30fs for 630 до 940 nm <= 60fs. For 315 до 470 nm :
Polarization, signal:	Linear, horizontal
Output stability (short term)	<= 2% (30 min hours) standard deviation
Output stability (long term)	<= 2% (168 hours)
Input Parameters	
Energy:	0.2 - 0.4 mJ
Pulsewidth:	100 – 250 fs
Polarization :	Linear, vertical

Pump:	5 – 10 mm Near TEM <sub>00</sub>
Repetition rate:	>= 1 kHz
Wavelength:	1040 nm
Beam height:	110 mm
Environment	Compatible with standard laboratory working environment with operating temperature range: 25 +1/-3 °C, temperature stability: +/- 2 degree (for 30 min measurement interval), and relative humidity <70%, non-condensing
Operating temperature range:	+20 ...+30 °C.
Power supply:	standard single-phase electrical distribution network voltage of 230 V/ 50 Hz.