

NOPA™ Non-colinear Optical Parametric Amplifier



- **Optimized to be pumped by the CPA-2101**
- **Pulses as short as 10fs proven by developer¹**
- **Near TEM₀₀ output mode**
- **Compact, user-friendly design**
- **White light continuum seeded for high stability**

NOPA™ is a white light continuum seeded optical parametric amplifier (OPA) able to generate extremely short pulses when pumped by an ultra stable Clark-MXR, Inc. CPA-2101 Amplified Ti:Sapphire laser system. To match the needs for extremely short, usable pulses, Clark-MXR, Inc. in cooperation with Professor Eberhart Riedle has developed a series of NOPAs™ that require only 200μJ, 150 fs pulses at 775 nm for pumping and were optimized to ensure high spatial beam quality.

The Standard version of the NOPA™ delivers sub-30fs pulses from 450 to 700 nm and sub-50fs pulses from 870 to 1600 nm with energies up to 8 μJ per pulse without changing optics. A lower-priced version, NOPA™ *slim*, offers up to 7 μJ, sub-30fs pulses from 470 to 700 nm. For the most demanding users, the NOPA™ *plus* delivers no-gap tuning from 450 to 1600 nm. With up to 8 μJ per pulse, this unit provides sub-30fs pulses from 450 to 870 nm and sub-50fs pulses from 870 to 1600 nm.

¹ T. Wilhelm, J. Piel, and E. Riedle, Institut für Medizinische Optik, Ludwig-Maximilians-Universität München, München, Germany. OPTICS LETTERS, VOL. 22, No. 19, October 1, 1997. P.1494.

Specifications when pumped by a CPA-2101

0.2mJ, 150fs, Near TEM₀₀@ 1KHz, 775nm

General Size (WxLxH) = 15"x32.5"x9"

Electrical/Water = None

Fundamental Output; NOPA *slim*

wavelength range 470nm to 700nm <30fs

pulse energy up to 7 μJ

Fundamental Output: NOPA

wavelength range: 450nm to 700nm, pulse width <30fs;

870nm to 1600nm, pulse width <50fs

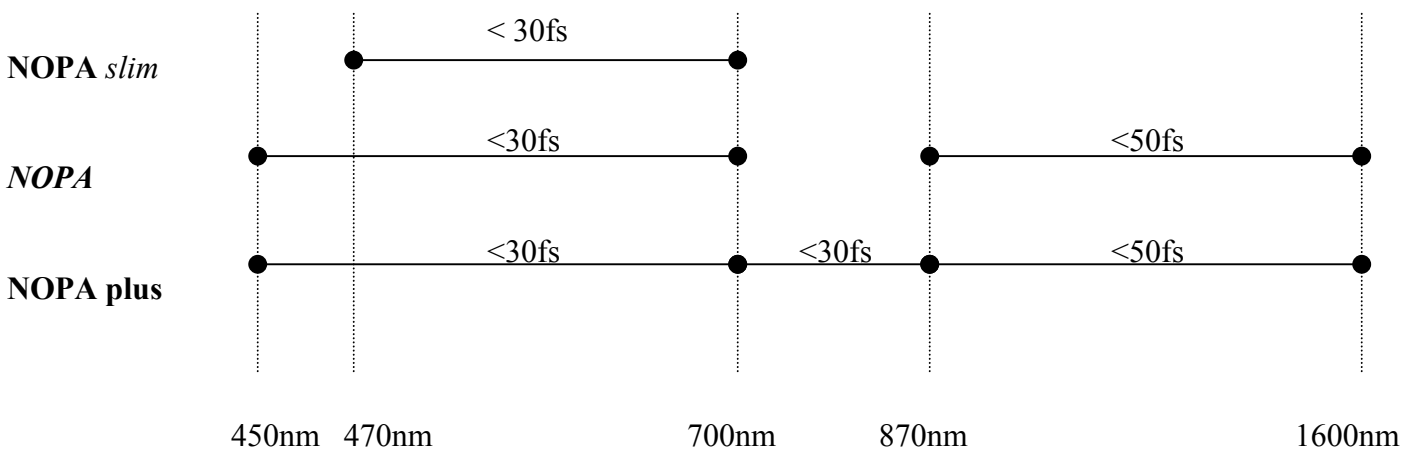
pulse energy up to 8 μJ

Fundamental Output: NOPA *plus*

wavelength range: 450nm to 870, pulse width <30fs

870nm to 1600nm, pulse width < 50fs

pulse energy up to 8 μJ



Version 03.18.04

Only basic information and specification parameters are listed on this sheet.
For more details, please visit our web site at <http://www.cmxr.com>.

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