Picosecond Tunable Wavelength Lasers

For researchers demanding wide tuning range, high conversion efficiency and narrow line-width, EKSPLA PG&PT series optical parametric generators is an excellent choice. All models feature hands-free wavelength tuning, valuable optical components protection system as well as wide range of accessories and extension units.

Long-term experience and close cooperation with scientific institutions made it possible to create range of models, offering probably the widest tuning range: from 193 nm to 17000 nm. Versions, offering near transform limited line-width as well as operating at kHz repetition rates are available.

For customer convenience, the laser can be operated from a master device or a personal computer using various interfaces. Depending on the system configuration, control is available via the USB interface (REST API over RNDIS or VCP with ASCII commands), the RS-232 interface (ASCII commands), the LAN interface (REST API), or from the remote control pad with a backlit display that remains easy to read even while wearing laser safety glasses.

EKSPLA PL series picosecond mode-locked lasers are recommended for pumping of PG series Optical Parametric Generators. Combining together, researchers get complete tunable wavelength system, capable to assist researchers in wide range of spectroscopy applications: time-resolved pump-probe, nonlinear, infrared spectroscopy, laser-induced fluorescence, scanning near-field optical microscopy.

FEATURES

- *Wide spectral range*
- *Narrowband*
- *Pump laser from 8 to 30 picoseconds*
- *Fast wavelength scan (sweep) PT277, PT501, PT401 lasers systems*

SHORT SELECTION GUIDE

For Your convenience, table contains all available options and highest parameter values. Not all output specifications are available at the same time simultaneously. Please refer to the catalog page for exact specifications and available options.

Model	Output wavelength range	Max pulse repetition rate	Bandwidth	Special feature	Page
PGx01	193 – 2300 nm	50 Hz	< 6 cm^{-1}	High peak power (>50 MW), ideal for non-linear spectroscopy	16
PT277	1403 – 17000 nm	87 MHz	< 4 cm^{-1}	MHz-level pulse repetition rate. integrated pump laser and OPG in a single housing Mid-infrared spectral range	20
PT403	210 – 2300 nm	1000 Hz	< 9 cm^{-1}	Pump laser and OPG integrated in 2-in-1 combo housing	23
PT501	2300 – 16000 nm	100 Hz	< 3 cm^{-1}	High pulse energy. integrated pump laser and OPG in a single housing Mid-infrared spectral range	27
PT401 Preliminary	210 – 2300 nm	1000 Hz optionally 100 Hz	< 4 cm^{-1}	High pulse energy, integrated pump laser and OPG in a single housing	30

PHOTO TECHNICA www.phototechnica.co.jp
フォトテクニカ株式会社
〒336-0017 埼玉県さいたま市南区南浦和 2-18-2
TEL:048-871-0067 FAX:048-871-0068
e-mail:voc@phototechnica.co.jp

EKSPLA