

Litron Total Laser Capability

AURORA OPO

The Aurora OPO Series

Tuneable sources designed for Litron's Lasers



Broadband OPO Systems Tuneable sources designed for Litron's lasers

The Aurora OPO



Based around BBO, the Aurora is a broadband device pumped at 355nm. It is continuously tunable from 410nm to 680nm and the corresponding idler output to 2400nm is also available.

Designed to be fully integrated with either the Nano series or the larger LPY series of systems the OPO is a modular attachment designed specifically for use with Litron's lasers. Precise stepper motor control of the crystal and accurate optical encoding of its position ensure

accurate and repeatable wavelength tuning and output.

Conversion efficiencies of up to 30% are achieved allowing outputs of >50mJ from a compact laser and OPO combination making it ideal for either laboratory based or portable applications requiring a tunable source.

SPECIFICATIONS

Model	Aurora 20	Aurora 35	Aurora 50
Pump energy (mJ @355nm)	75	110	180
Maximum output (mJ) ⁽²⁾	20	35	50
Linewidth (cm ⁻¹)	5 - 250	5 - 250	5 - 250
Repetition rate (Hz) ⁽¹⁾	0 - 200	0 - 200	0 - 200
Signal tuning range (nm)	410 - 680	410 - 680	410 - 680
Laser type	Nano LG Nano TRL	Nano TRL	LPY700

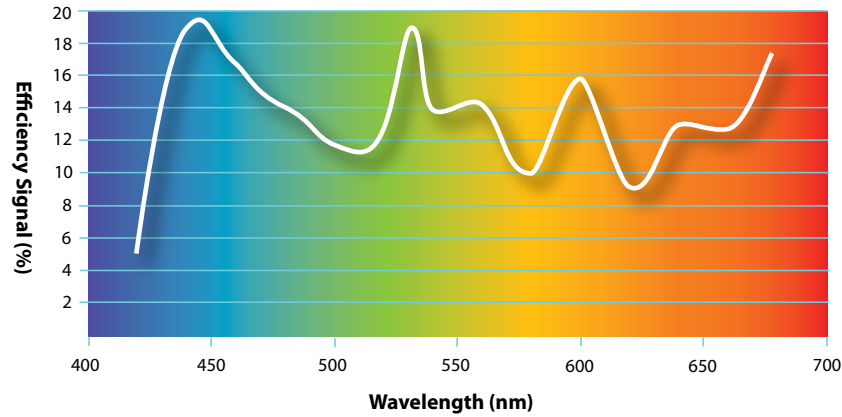
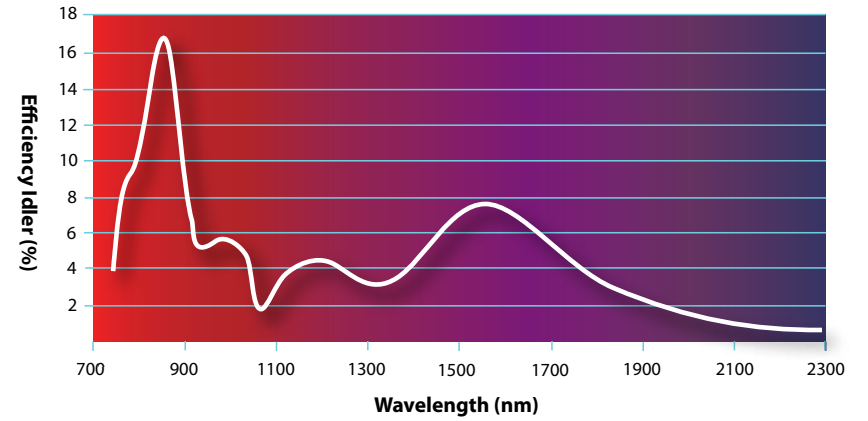
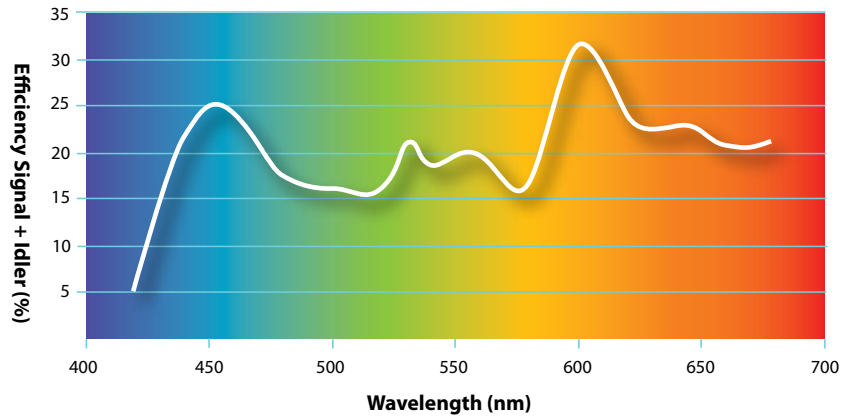
⁽¹⁾ Maximum repetition rate depends upon pump laser specification.

⁽²⁾ Signal + Idler.



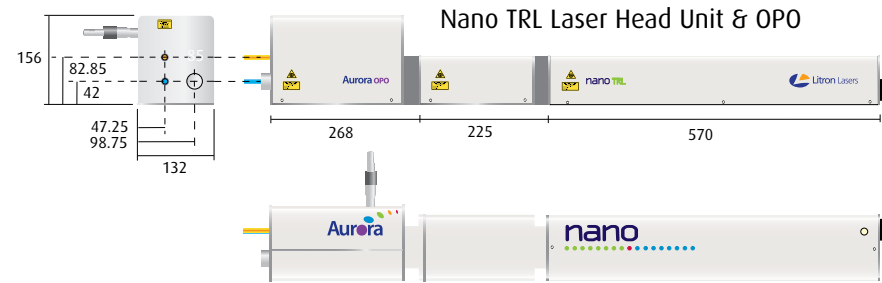
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PERFORMANCE with 355nm pump laser

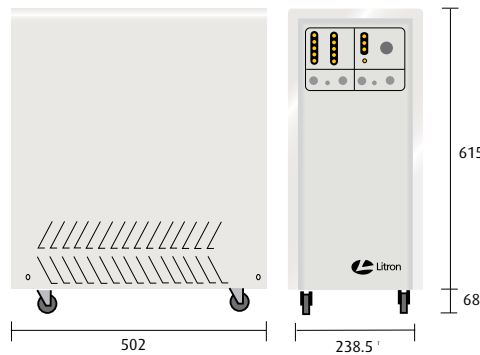


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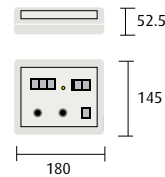
MECHANICAL DATA



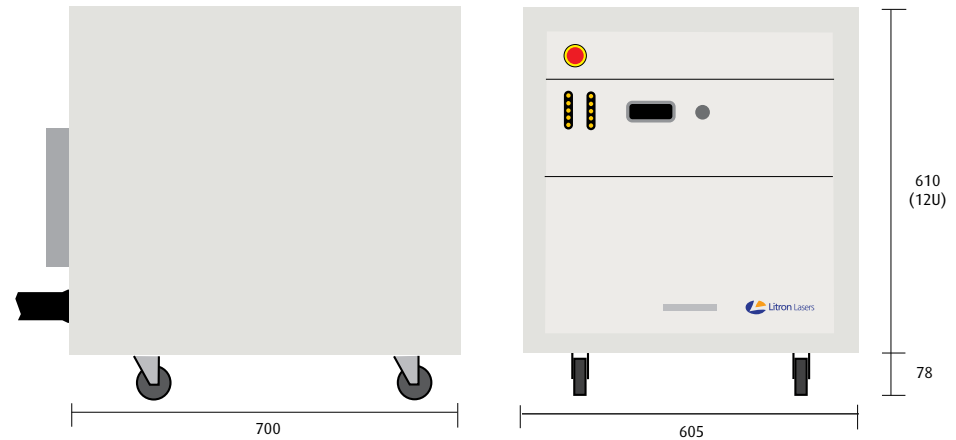
LPU1000 PSU



Remote Control Box



Rack-mount PSU



All dimensions shown in mm



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Our policy is to improve the design and specification of our products. The details given in this document are not to be regarded as binding.

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