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TECHNOLOGY GROUP

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Find the *Coherent / Lambda Physik 8703.144D* at our website: ***Click HERE***

LPX® SERIES

Medium to High Duty Excimer Lasers

LPX models are medium to high duty cycle excimer lasers, offering high repetition rates for scientific and industrial applications. They combine proven design with state-of-the-art technology, setting new standards for reliability and performance.

Versatile Features

- NovaTube® technology for outstanding gas and tube lifetimes
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- Electrostatic gas processor for extended gas lifetime and window cleaning intervals
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The LPX's dependable design allows for various applications such as high precision micromachining, ink jet nozzle drilling, optical material testing, spectroscopy and photochemistry.

LAMBDA PHYSIK®

Driving the Pulse of UV Technology

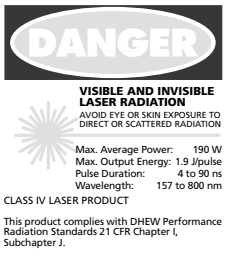
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THE LPX SERIES

Technical Data

Model	LPX	210i	220i	305i	Units
		Multigas / Fluorine	**Multigas**	**Fluorine**	
Pulse Energy[1]	193 nm	400 / 450	275	650	mJ
	248 nm	600 / 700	450	1200	mJ
	308 nm	400 / NA[7]	250	NA[7]	mJ
	351 nm	320 / 400	200	400	mJ
Max. Rep. Rate		100 / 100	200	50	Hz
Average Power[2]	193 nm	32 / 35	45	25	W
	248 nm	56 / 65	80	50	W
	308 nm	38 / NA[7]	45	NA[7]	W
	351 nm	28 / 35	35	15	W
Pulse Duration[3]	193 nm	20	15	20	ns
	248 nm	25	20	25	ns
	308 nm	28 / NA[7]	18	NA[7]	ns
	351 nm	25	18	30	ns
Pulse-to-Pulse Stability[4]	193 nm	5	5	5	±%
	248 nm	3	3	3	±%
	308 nm	3.5 / NA[7]	3.5	NA[7]	±%
	351 nm	3	3	3	±%
Beam Dimensions (v x h)[3]		5–12 x 23	5–12 x 23	10–15 x 30	mm^2
Beam Divergence (v x h)[3]		1 x 3	1 x 3	1 x 3	mrad
Time Jitter[5]		2	2	2.5	± ns
Electrical	CEE 400 V, 32 A, 50 Hz, 3 Ph/N/PE, 7.5 kVA. Optional 208 V, 50/60 Hz switchable, 3 phase				
Water Cooling	4 l/min (1.1 gal/min), 15 – 20°C, connection: 1/2"				
Dimensions (l x w x h)	Laserhead:	LPX 200 / 300:	1966 x 800 x 473.5 (feet/range + 40 mm)		mm^3
			77.4 x 31.5 x 18.6 (feet/range + 1.57 inches)		inches
	Power supply:		460 x 185 x 750 / 18.1 x 7.3 x 29.5		mm / inches
	Vacuum pump:		230 x 240 x 530 / 9.1 x 9.4 x 20.9		mm / inches
Weight	Laserhead:		LPX 200: 370 / 814 · LPX 300: 400 / 880		kg / lbs
	Power supply:		50 / 110		kg / lbs
	Vacuum pump:		23 / 51		kg / lbs

[1] measured at low repetition rate
[2] measured at max. repetition rate
[3] typical, FWHM
[4] based on 90% of all pulses
[5] typical, 1 Sigma
[6] except 193 nm: 300 Hz
[7] NA = Not Available



LAMBDA PHYSIK®

Options and further specifications are available upon request.
Specifications are subject to change without notice due to product improvements.

Driving the Pulse of UV Technology

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