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G41K-1H

KrF 4 kHz Excimer Laser for up to 130 nm Technology Nodes



As the upgrade version of the second-generation model of 4-kHz excimer laser G41K, G41K-1H is mounted with a magnetic-levitation laser chamber and highly efficient line-narrowing and monitor modules on the G41K platform as standard features to achieve a high output of 40 W, one class higher than any other product. The G41K-1H has prolonged the life of each optical module to 30 billion pulses (50% longer than the G41K). The G41K can be upgraded to the G41K-1H in the field by replacing their modules.

Main Features

- ✔ Higher output of 40 W/ultra-low CoO by further enhancing the emission efficiency of the G41K
- ✔ Use of the TGM software allows prolongation of the gas life by an additional 100% compared with the conventional life
- ✔ Higher reliability proven by hundreds of laser units running in the field

Main Specification *

Wavelength	248 nm
Average Output	40 W
Pulse Energy	10.0 mj
Repetition Rate	4,000 Hz
Bandwidth (FWHM)	0.35 pm
Bandwidth (E95)	1.1 pm

(*) Each of the above specification values represents a typical value

KrF

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G20K (<https://www.gigaphoton.com/en/products/excimer-laser/krf/g20k>)

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