



Alpha 1030 nm 1 GHz



Key features



All-in-one box



Passive cooling



High performance

Applications



Manufacturing



LiDAR



Microscopy

Our compact femtosecond laser's innovative all-glass design enables an exceptional peak power-to-volume ratio, making it an excellent choice for OEM integration.

This laser is particularly effective for applications requiring rapid scanning and dense packets of infrared photons, such as in manufacturing, remote target detection, and 3D tissue imaging.

Laser Specifications

Wavelength	1035 nm	Spectral Bandwidth	4.6 nm
Average Power	480 mW	Pulse Duration	< 250 fs
Peak Power	1.9 kW	Beam Diameter	0.4 mm x 0.5 mm
Repetition Rate	0.9 GHz	Beam Quality	TEM ₀₀ M ² < 1.05
Pulse Energy	0.5 nJ	Beam Circularity	> 75 %
Beam Output	Free-space	Polarization Ratio	250:1

Casing Specifications

Dimensions (L x W x H)	200 x 140 x 40 mm ³
Weight	≤ 2 kg
Power Consumption	≤ 24 W (24VDC / Max 1A)
Cooling	Passive
Interfaces	USB-C Ethernet RF out Analog (option)

- Typical values
- Product appearance and specifications are subject to change without notice
- Customized OEM version on request

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