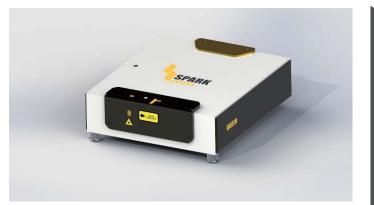


DIADEM Series

Compact, high-energy femtosecond laser



DIADEM produces high energy with femtosecond (<500fs) pulses, in a compact and robust format. Offering one of the World's lowest cost of ownership, high precision and ease of integration, DIADEM is ideally suited for industrial applications such as glass engraving or micron-scaled features drilling/cutting used in a wide variety of market segments.

From single shot to 1 MHz, its efficient, industrial GUI is Industrials best ally to fine tune even the most challenging processes whatever the PRF.

DIADEM embeds perfectly into any kind of systems working in a 24/7 operating environment, year wide. Its very reduced footprint, weight and capital investment make it the moneymaker you need.



www.spark-lasers.com Phone : +33 564 310 484 info@spark-lasers.com

DIADEM Key Features

- Up to 30W at 1030 nm
- < 500 fs pulses</p>
- Up to 30 µJ @ 1 MHz
- PRF range single shot to 1 MHz
- Seeder burst mode
- M² < 1.2
- Rugged design
- Maintenance free
- Worldwide warranty

coverage 24 months

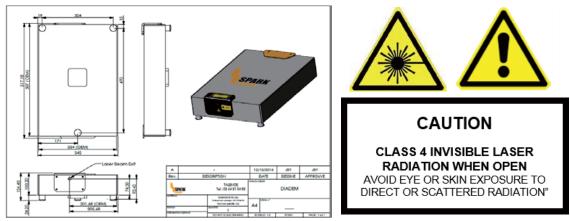
DIADEM applications

- Consumer Electronics
- Automotive/Aerospace
- Medical & Bio-Medical
- Semicondutors

Technical Specifications*

DIADEM IR-10**	DIADEM IR-30**
1030 nm	
< 8 nm	
<500 fs	
20 μJ at 200 kHz (4 W) 20 μJ at 500 kHz (10 W) 10 μJ at 1 MHz (10 W)	30 μJ at 100 kHz (3 W) 30 μJ at 200 kHz (6 W) 30 μJ at 500 kHz (15 W) 30 μJ at 1 MHz (30 W)
	ode)
<1.2	
2 mm	
<1 mrad	
<25 µrad/°C	
>0.85	
< 15 min	
<2% RMS	
<2% RMS	
vertical, >100:1	
High speed External synchronisatio Communication through US	
Intuitive GUI, DLL and Serial comn	nunication Protocol
518 x 342 x 125	
19"/3U rack	
3 m	
100 to 240 VAC	
	< 8 nm

* Specifications subject to change without notice. ** Other wavelengths available upon request For custom specifications, please contact us



SPARK LASERS offers a 24-month warranty for all DIADEM laser range. For full details of this warranty coverage, please refer to our website <u>www.spark-lasers.com</u> or contact us at +33 564 310 484



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