脈衝式固態雷射
Pulsed Solid-State Laser

THALES

SAGA 閃光燈激發式雷射

Flashlamp - Pumped Yag Series

Applications

- Material processing
- Instrumentation
- Scientific
- Companion pump laser for ultrafast tw systems
- Ideal pump for OPO and DYE Lasers

Saga is the most efficient and compact flashlamp pumped solid-state laser on the market, producing up to 2.3 J per pulse @ 532 nm and 5Hz.
Its original optical cavity design based on an unstable resonator and a gaussian end cavity mirror enhances energy extraction. The beam exhibits a Top Hat profile in the near field.
Saga is the limited footprint solution for matching high energy requirements and for pumping ultrafast TW lasers.

Features

- Up to 2.3 J @ 532 nm
- Ultrastable energy output
- Passive beam pointing stabilization
- Excellent beam profile
- Seeded version aivalable (S 230)
- Computer control

Output Specifications

Model	220	230 / HP	S 230 *4	S330/10
Repetition rate (Hz)	10	10	10	5 - 10 Hz
Energy per pulse (mJ)				
at 1,064 nm	1,500	2,300 / -	1,900	3,800 @ 10Hz
at 532 nm	800	1,250 / 1,600	900	2,300 @ 5Hz
at 355 nm	420	600 / -	520	-
at 266 nm	150	170 / -	140	-
Pulse to pulse energy stability (% rms)	1.2	1.2	1.2	1.2
Pulse duration (ns)	4 - 8	4 - 8	7 - 9	4 - 8
Time jitter rms (ns)	0.5	0.5	0.5	0.5
Spectral width (cm-1)	1	1	0.004	1
Beam diameter (mm)	9.0	12 / 14	12	18
Divergence (mrad)	0.5	0.5	0.5	0.5
Beam pointing stability (µrad)	± 50	± 50	± 50	± 50
Beam spatial profile				
Near field	Top Hat *1	Top Hat *1	Top Hat *1	Top Hat *1
Far field	Gaussian *2	Gaussian *2	Gaussian *2	Gaussian *2

*1. Fit to supergaussian order 10 > 90 %
*2. Fit to Gaussian > 95 %
*3. IR version available on request
*4. with fibered seeder

方全有限公司
Rapitech Enterprise Co.,Ltd.
244 新北市林口區仁愛路二段309號10樓
Tel : 886-2-2608-8096(台北) / Tel : 86-21-6248-3333(上海) / Fax : 886-2-2608-8092
E-mail : sales@rapi-tech.com.tw www.rapi-tech.com