

ALCOR 1- μ m SERIES



100 FS PULSES / HIGH POWER / HIGH REPETITION RATE

ULTRA-COMPACT FEMTOSECOND LASER FOR BIOPHOTONICS

ALCOR produces high-average power with ultrashort femtosecond pulses (100 fs) at high repetition rate (80 MHz standard, others optional) in an ultra-compact and robust format. ALCOR is a fiber laser with a best-in-class quality and collimated beam providing high-stability.

Integrating state of the art high-power full package amplifiers and pulse management, ALCOR offers remarkable pulse quality at high average power with no maintenance required.

In addition to this, ALCOR beam can be injected directly into any microscope and standardly embeds a Group Delay Dispersion precompensation which can be adjusted electronically through our GUI or serial communication protocol between 0 and -30 000 fs².

CORE SPECIFICATIONS

- / 1064 nm
- / High repetition rate : 80 MHz
- / High power : from 1 W to 2 W
- / 100 fs

USABILITY

- / Ultracompact, robust & air cooled fiber laser
- / Plug'n play : < 5 min set up, sync. out
- / Intuitive user interface
- / Additional wavelength in option

APPLICATIONS

- / Two-photon microscopy
- / Neuroscience

CUSTOMER CARE

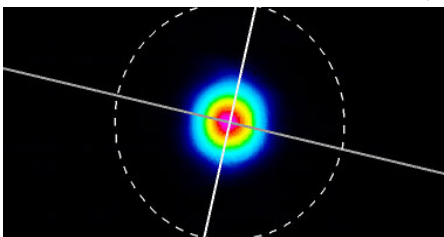
- / 12-month warranty
- / Worldwide technical support
- / Laser customization

TECHNICAL SPECIFICATIONS*

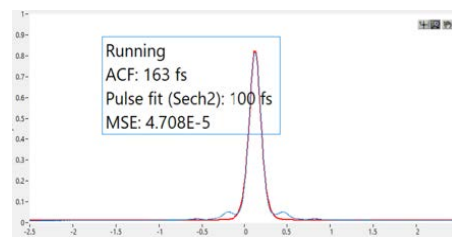
ALCOR 1064

AVERAGE POWER	1W	2W
WAVELENGTH	1064 nm (1040 nm or OTHER OPTIONAL)	
PULSE DURATION	100 fs (OTHER OPTIONAL) with standard GDD precompensation from 0 down to - 30 000 fs ²	
REPETITION RATE	Fixed 80 MHz (OTHER OPTIONAL)	
M ²	< 1.2	
BEAM WAIST DIAMETER	1 mm	
BEAM POINTING STABILITY	< 25 μrad/°C	
ELLIPTICITY	> 0.9	
WARM-UP TIME	< 5 min	
POWER STABILITY	< 1% RMS	
RMS NOISE	< 1%	
POLARIZATION	linear, > 100:1	
ELECTRICAL		
EXTERNAL INTERFACES	High speed external synchronisation (Sync. Out), communication through USB, RS 232, TCP/IP with remote control for fast intervention	
SOFTWARE INTERFACES	Intuitive GUI, Serial communication protocol	
POWER CONSUMPTION	100 to 240 VAC, < 400 W	
MECHANICAL		
LASER HEAD DIMENSIONS & WEIGHT	252 x 151 x 91 mm ³ – < 5 kg (with collimated beam)	
LASER CONTROLLER DIMENSIONS & WEIGHT	19"/3U rack – 7,5 kg	
STANDARD UMBILICAL LENGTH	3 m	
TECHNICAL DRAWINGS FOR DOWNLOAD	ALCOR	
COOLING	Air cooled	
OPTIONS		
GDD	Group Delay Dispersion pe-compensation (variable down to -50 000 fs ²)	
ADDITIONAL WAVELENGTH	915 to 930 nm	
CUSTOM PULSE REPETITION FREQUENCY	40 MHz	
CUSTOM PULSE DURATION	Any other pulse duration available upon request	

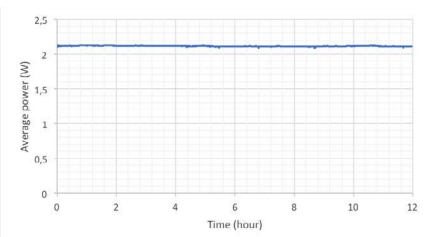
DIMENSIONS & PERFORMANCE



BEAM PROFILE



AUTOCORRELATION TRACE



AVERAGE POWER STABILITY



CAUTION
CLASS 4 VISIBLE & INVISIBLE LASER
RADIATION WHEN OPEN
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION

* This information is subject to modifications without prior notice.

Contact : +33 557 977 472 / info@spark-lasers.com

www.spark-lasers.com

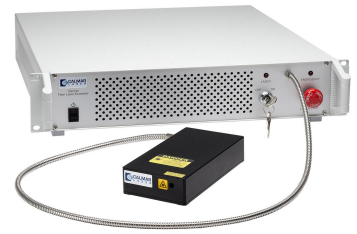
[Spark-920nm 飞秒激光器](#)



[Spark-920/1064nm 激光器 \(功率可调、可光纤输出\)](#)



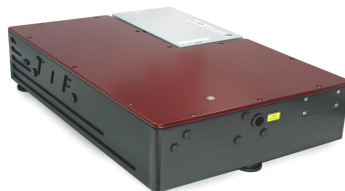
[Calmar-780nm 激光器](#)



[Calmar-1550nm 激光器](#)



[Avesta-715-980nm 钛宝石激光器](#)



[Cycle-1300/1700nm 双波长激光器](#)



[Oxxius - 多波长合束激光器](#)

[Meadowlark-纯相位液晶空间光调制器 \(SLM\)](#)



[Meadowlark-液晶相位延迟器、螺（涡）旋相位板](#)

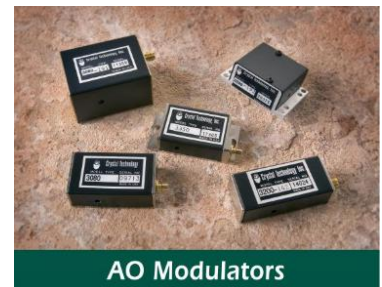
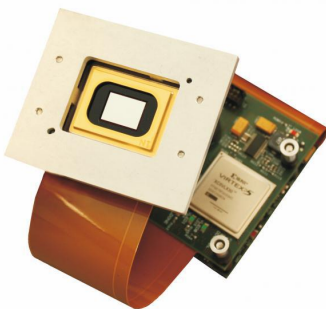
[Forth DD-纯振幅液晶空间光调制器 \(LCOS\)](#)



[ViALUX-DMD 数字显微镜](#)

[Conoptics-电光调制器 \(EOM\)](#)

[Gooch&Housego-声光调制器](#)



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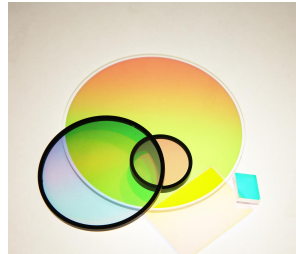
[Photonscore -TCSPC单光子相机](#)



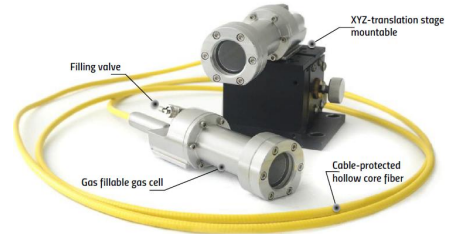
[Photon etc -深度制冷短波红外相机](#)



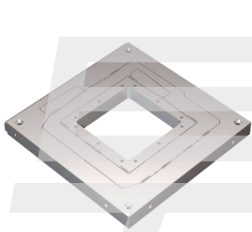
[Chroma-荧光滤光片](#)



[PHOTONICS BRETAGNE - Kagome光子晶体光纤](#)



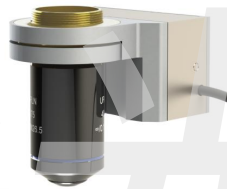
[PIEZOCONCEPT-压电平移台](#)



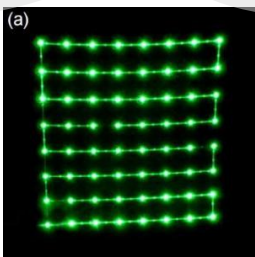
[PIEZOCONCEPT-物镜扫描台](#)



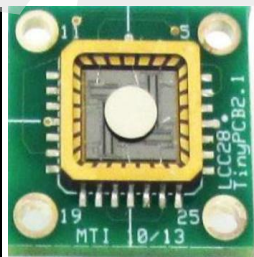
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[Mirrorcle-MEMS扫描镜](#)



[TAG -超快声光可变焦透镜](#)



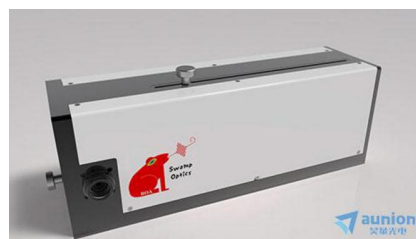
[Minus K -桌面型隔振平台](#)



[Avesta-棱镜色散补偿器](#)



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