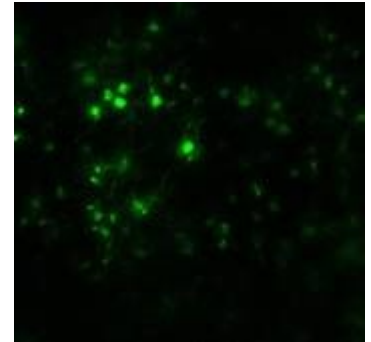


ALCOR SERIES



920 nm & 1064 nm / 100 fs PULSES / HIGH POWER / HIGH REPETITION RATE

ULTRA-COMPACT FEMTOSECOND LASER FOR TWO-PHOTON EXCITATION

ALCOR is the most advanced femtosecond fiber laser emitting at 920 nm or 1064 nm specifically designed for Multiphoton microscopy instrumentation and industrial OEM integration working with 24/7 operations, in an ultra-compact, robust and air-cooled format. While being air-cooled and designed with utmost accuracies, it may be mounted in all imaginable positions and environments allowing eased and simplified use with direct injection within any microscope for large span of applications.

The ALCOR 920 nm is ideal for two-photon imaging of green fluorophores (GFP) and calcium indicators such as GCaMP while 1064 nm series is the perfect fit for all red-shifted indicators such as RCaMP, dtTomato, MCherry for two-photon excitation microscopy thanks to finely adjustable GDD precompensation. ALCOR ensures optimal imaging and excitation with its tunability range for GDD precompensation.

The laser can be optionally equipped with XSight fully integrated electronics for fine and fast power modulation (analog and TTL).

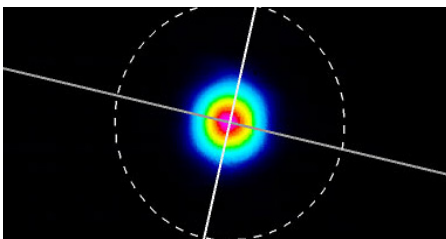
Besides, should your application require more versatility, FLeXSight unique feature with fiber delivery can also be mounted on the beam output to deliver femtosecond pulses as close as possible to the sample while animal moves freely and data is acquired.

SPARK LASERS is leading the market since ALCOR has been answering market's needs by offering single wavelength, designed for microscopy, advanced features, maintenance-free, best-in-class per its cost of ownership/performance report.

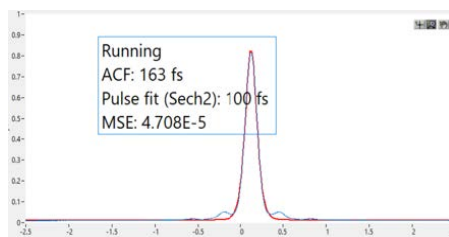
TECHNICAL SPECIFICATIONS*

	ALCOR		ALCOR XSight		ALCOR FleXSight	
AVERAGE POWER	1W	2W	0.75W	1.5W	0.4W	0.8W
WAVELENGTH	920 nm or 1064 nm - (1040 nm OPTIONAL)					
PULSE DURATION	100 fs					
GROUP DELAY DISPERSION PRECOMPENSATION	electronically tunable from 0 down to - 60 000 fs ² (OTHERS OPTIONAL)					
REPETITION RATE	Fixed 80 MHz (OTHER OPTIONAL)					
M ²	< 1.2		< 1.2		<1.3	
OUTPUT BEAM DIAMETER	1 mm (+/- 0.2)		1 mm (+/- 0.2)		1.3, 2.4 or 4 mm	
MODULATION	N/A		TTL & ANALOG		TTL & ANALOG	
ELLIPTICITY	> 0.9					
POWER ADJUSTMENT	Alignment mode or Full power		0 to 100 %		0 to 100 %	
WARM-UP TIME	< 5 min					
POWER OUTPUT	FREE SPACE		FREE SPACE		2 M LONG FIBER DELIVERY - COLLIMATED BEAM	
POWER STABILITY & RMS NOISE			< 1% RMS		< 1%	
POLARIZATION	Linear					
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, < 150 W					
MECHANICAL						
LASER HEAD DIMENSIONS & WEIGHT	252 x 151 x 91 mm ³ < 5 kg (with collimated beam)		387 x 151 x 91 mm ³ < 7 kg (with collimated beam)		387 x 151 x 91 mm ³ < 7 kg (with collimated beam)	
LASER CONTROLLER DIMENSIONS & WEIGHT	19"/3U rack – 7,5 kg					
STANDARD UMBILICAL LENGTH	3 m					
COOLING	Air cooled					
OPTIONS						
GDD	Group Delay Dispersion pe-compensation (variable down to -90 000 fs ²)					
CUSTOM PULSE REPETITION FREQUENCY	40 MHz					
DUAL HEAD	Available at 920 nm + 1064 nm (or 1040 nm upon request) with 1 and only rack controller					

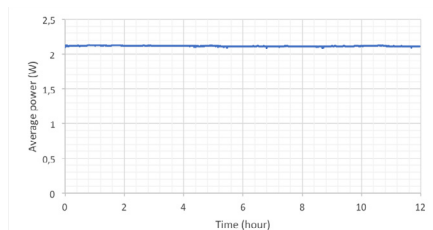
DIMENSIONS & PERFORMANCE



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.

[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](#)



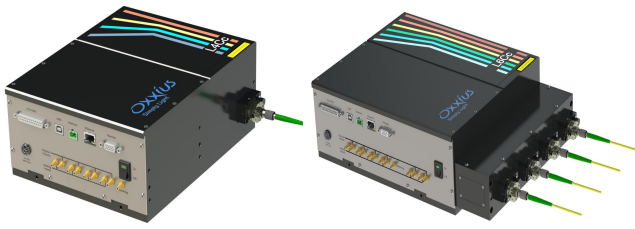
[Avesta-715-980nm 钛宝石激光器](#)



[Cycle-1300/1700nm 双波长激光器](#)



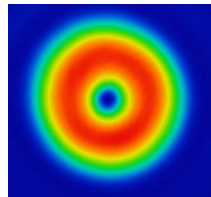
[Oxxius - 多波长合束激光器](#)



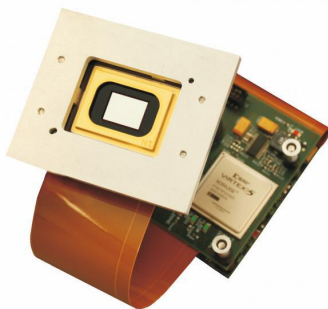
[Meadowlark-纯相位液晶空间光调制器 \(SLM\)](#)



[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 \(LCOS\)](#)



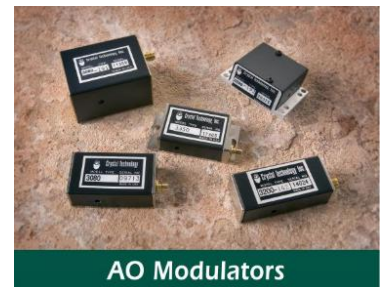
[ViALUX-DMD 数字显微镜](#)



[Conoptics-电光调制器 \(EOM\)](#)



[Gooch&Housego-声光调制器](#)



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[Ximea -高性价比sCOMS相机](#)



[Lambert -高速荧光相机](#)



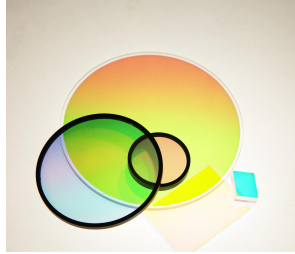
[Photonscore -TCSPC单光子相机](#)



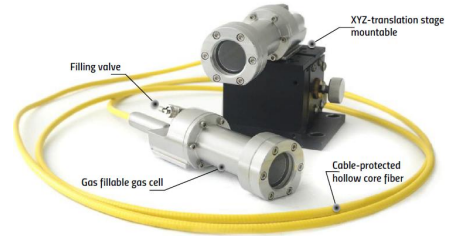
[Photon etc -深度制冷短波红外相机](#)



[Chroma-荧光滤光片](#)



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



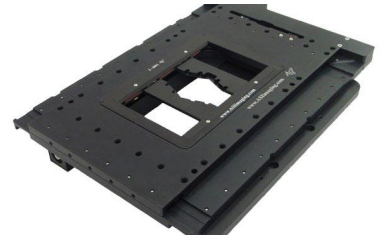
[PIEZOCONCEPT-压电平移台](#)



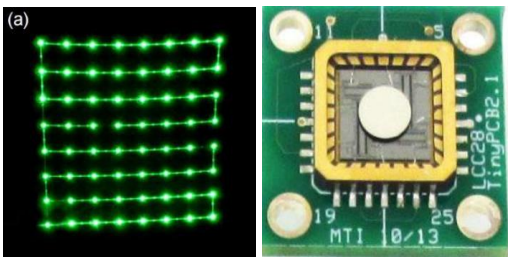
[PIEZOCONCEPT-物镜扫描台](#)



[ASI-显微镜载物台](#)



[Mirrorcle-MEMS扫描镜](#)



[TAG -超快声光可变焦透镜](#)



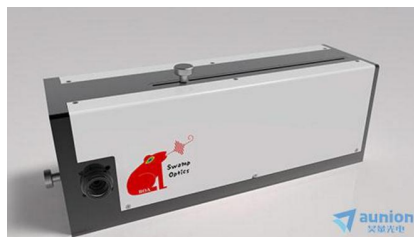
[Minus K -桌面型隔振平台](#)



[Avesta-棱镜色散补偿器](#)



[Swamp Optics-BOA脉冲压缩器](#)



[Avesta-双子吸收自相关仪](#)



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