ALCOR 920 nm SERIES





<140 FS PULSES / HIGH POWER / HIGH REPETITION RATE

ULTRA-COMPACT FEMTOSECOND LASER

FOR BIOPHOTONICS

ALCOR produces high-average power with ultrashort femtosecond pulses (down to <140 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 fullt package amplifiers and pulse management, ALCOR offers remarkable pulse quality at high average power with no maintenance required.

CORE SPECIFICATIONS

/ High repetition rate: 80 MHz / High power: from 1 W to 2 W

/ < 140 fs (standard)

USABILITY

/ Ultracompact, robust & air cooled fiber laser

/ Plug'n play : < 5 min set up, sync. out / sync .in

/ Intuitive user interface

/ Additional wavelength in option

APPLICATIONS

/ Multiphoton microscopy / Two-photon microscopy

/ Neuroscience

CUSTOMER CARE

/ 24-month warranty

/ Worldwide technical support

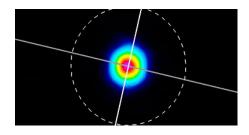
/ Laser customization

TECHNICAL SPECIFICATIONS*

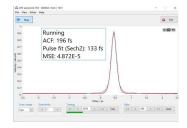
ALCOR 920

AVERAGE POWER	1W	2W	
WAVELENGTH	920 nm (отн	920 nm (other optional)	
PULSE DURATION	140 fs (OTHER OPTIONAL) with standard GDD precompensation from 0 down to - 30 000 fs²		
REPETITION RATE	Fixed 80 MHz (OTHER OPTIONAL)		
M ²	< 1.2		
BEAM WAIST DIAMETER	1 m	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), com	•	
	IP with remote control for fast intervention		
SOFTWARE INTERFACES	Intuitive GUI, Serial com	munication protocol	
POWER CONSUMPTION	100 to 240 V	AC, < 400 W	
MECHANICAL			
LASER HEAD DIMENSIONS & WEIGHT	252 x 151 x 91 mm³ – < 5 kg	g (with collimated beam)	
LASER CONTROLLER DIMENSIONS &	WEIGHT 19"/3U rac	k – 7,5 kg	
STANDARD UMBILICAL LENGTH	3 r	n	
TECHNICAL DRAWINGS FOR DOWNLO	AD <u>ALC</u>	<u>OR</u>	
COOLING	Air co	oled	
OPTIONS			
GDD	Group Delay Dispersion pe-compensa	ation (variable down to -50 000fs²)	
CUSTOM PRIMARY WAVELENGTH	915 to 9	915 to 930 nm	
ADDITIONAL WAVELENGTH	1040 nm, or	1040 nm, or 1064 nm	
CUSTOM PULSE REPETITION FREQUE	NCY 40 M	40 MHz	
CUSTOM PULSE DURATION	< 12	O fs	

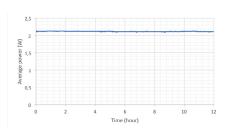
DIMENSIONS & PERFORMANCE



BEAM PROFILE



AUTOCORRELATION TRACE



AVERAGE POWER STABILITY







