AUNION TECH
昊量光电

520nm, 700mW, Femtosecond Fiber Laser

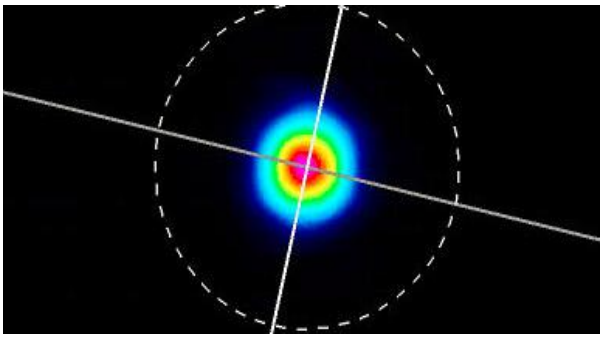
Applicatons	Features
● Multiphoton microscopy ● Neuroscience ● Material characterization ● Thrahertz radiation ● 3D-microprinting ● Nolinear spectroscopy ● Pump-Probe experiment ●	● High repetition rate : 80 MHz ● High power up to 0.7 W at 520nm ● Pulse width < 150 fs ● 24-month warranty ● Worldwide technical support ● Ultra-compact, robust & air cooled fiber laser ● Plug'n play : < 5 min set up, sync. Out ● Intuitive user interface ● Additional wavelength in option

ALTAIR GR produces high average power with ultrashort femtosecond pulses (<150 fs) at high repetition rate (80 MHz standard, others optional) in an ultra compact and robust format. ALTAIR GR is a fiber laser providing high stability and excellent beam quality. Integrating state of the art high-power fully packaged fiber amplifiers and pulse management, offers remarkable pulse quality at high average power with no maintenance required.

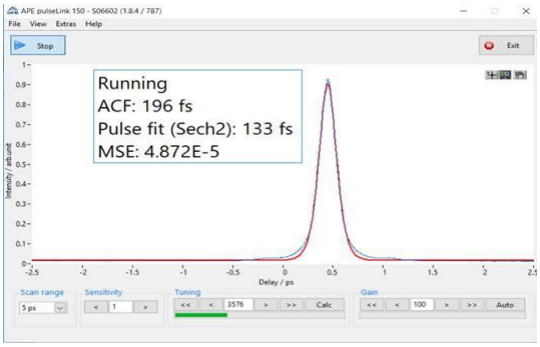
Technical Specifications

OPTICAL	
Model Number	ALTAIR GR
Wavelength (nm)	520
Average power (W)	Up to 0.7
Pulse duration (fs)	<150
Rep rate (MHz)	80
M^2	<1.1
Peak power (kW)	>60
Energy per pulse (nJ)	>8.75
Beam waist diameter (mm)	1
Beam pointing stability (μrad/°C)	< 25
Ellipticity	> 0.9
Warm-up time (min)	< 5
Power stability	< 1% RMS, 30 h
Polarization	linear, > 100:1
ELECTRICAL	
External interfaces	High speed External synchronization (Sync. OUT), communication through USB, RS232, TCP/IP including remote control and online maintenance.
Software interfaces	On-the-fly parameters changing through the use of our intuitive GUI or serial communication protocol.
Power consumption	100 to 240 VAC, < 400 W
MECHANICAL	
Laser head dimension@weight	397 x 339 x 131 mm3 – 13 kg (head)
Laser controller dimension@weight	19”, 3U, 46 cm depth – 7.5 kg (rack)
Standard umbilical length	3 m
Cooling	Air cooled
Operating/storage temp	10 ^{0}C - 35 ^{0}C / 0 ^{0}C - 40 ^{0}C

Test Report Reference



Beam Profile



Autocorrelation Curve

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电话：021-51083793　　手机：185 0177 0670
邮箱：jiabin-wei@auniontech.com　　网址：www.auniontech.com