

Repetition rate tunable femto-second laser and receiver (NEW)

Description

Partow femto-second laser system uses an all-fiber robust construction approach. The system uses a nonlinear polarization rotation method to achieve extremely short pulses. The laser repetition rate can be tuned by changing the length of cavity. The pulses are transform limited. Depending on the application Partow provides two different systems. Low power, high power and repetition rate tunable options are available. The unit is integrated with a balanced photoreceiver.

Parameter	Low power	High power
Laser power (xx)	2 mW	> 100 mW
Operating wavelength	1550 (nm)	1550(nm)
Pulse duration	<100fsec	<100fsec
Repetition rate	50-100MHz	50-100MHz
Repetition rate adjustment range (optional)	>0.5MHz	>0.5MHz
Repetition rate adjustment resolution (optional)	<10Hz	<10Hz
Peak Power	~ 0.2 kW	~ 10 kW
Pulse energy	~ 0.02 nj	~1 nj
Interrogator dimension	300x260x134(mm)	300x260x134(mm)
Receiver bandwidth	400MHz	400MHz
Interrogator weight	2(kg)	2.5(kg)
Laser output	PM, FC/APC	PM, FC/APC
Input power	110V-220V,50-60Hz	110V-220V,50-60Hz



