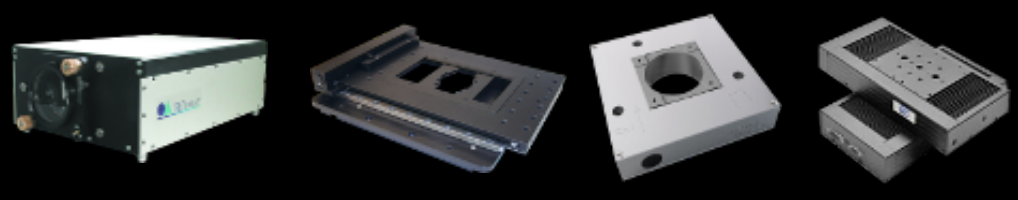
Opto Phase

Métrologie optique

Micro & Nanopositionnement

Produits de microscopie



English version

- Accueil
- Tous nos produits
- Nano positionnement
- Micro Positionnement
- Produits de microscopie
- Métrologie optique
- Métrologie des lasers
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The fiber laser based chirped pulse amplification system (FLCPA) generates high energy (up to 10 µJ) ultrashort (<0.7 ps) pulses at a repetition rate of 100s of KHz for either 1 or 1.5 µm wavelengths.

The fiber laser based chirped pulse amplification system (FLCPA) starts with a 25 MHz passively mode-locked seed fiber laser, sampled down to a pulse rate of 50 kHz or higher. The short pulse is time-stretched by frequency (chirped) for amplification through a high power fiber amplifier stage at lower peak intensity. Up to 10 µJ of short pulse energy is delivered into free space. The wavelength can be selected in C-band (~1550 nm) or at 1 µm wavelengths. The typical pulse width is 500 fs. The repetition rate can be adjusted up to 1500 kHz, depending on pulse energy, with average output power approaching 2 Watts. An RF synchronization output is provided as a trigger signal. This FLCPA is lightweight, compact, and maintenance free offering a reliable cost-effective alternative to Ti: Sapphire laser amplifiers.

Spécifications:

Model Number FLCPA-01U FLCPA-02U FLCPA-03U

Model Number	FLCPA-01U	FLCPA-02U	FLCPA-03U
Minimum Pulse Width	0.5	0.7	0.7
Central Wavelength (nm)	1030 ~ 1065 (selectable)	1030 ~ 1065 (selectable)	1030
Repetition Rate (kHz)	Up to 1500	Up to 500	Up to 200
Pulse Energy (µJ)	1	3	10
Polarization Extinction Ratio	20 dB (typical)		
Output Beam (mm)	Free space, diameter 3 (typical), M 2 <1.2		
Operating Temp (°C)	15 ~ 32		
Operating Voltage (VAC)	85 ~ 264		

Si vous souhaitez avoir de plus amples renseignements, n’hésitez pas à nous contacter.