FEMTOSECOND

Femtosecond fibre seed lasers

Low-power femtosecond seeds with polarization-maintaining fibre delivery.

Applications to discuss: Seeded ultrafast amplifiers; Multiphoton research.

Selection points
1030 nm, 1560 nm and 1850-2100 nm options / 80-800 fs across selected configurations / 10-80 MHz configured repetition rate

Configuration options

Centre wavelength	Pulse duration	Repetition rate	Average power	Spectral width
1030 nm	600-800 fs	10-80 MHz	3-10 mW	3 nm
1560 nm	80-800 fs	10-80 MHz	1-50 mW	>3 nm
1850-2100 nm	80-800 fs	10-80 MHz	1-50 mW	>15 nm

Each row is a separate configuration. Limits from different rows must not be combined.

Technical details

Parameter	Specification or condition
Output delivery	Polarization-maintaining fibre

Integration and delivery

Item	Configuration detail
OEM	200 x 130 x 28.5 mm; supply: 5 V customer supplied; cooling: Thermal Plate customer supplied
Lab	227 x 170 x 37 mm; 227 x 170 x 63 mm with fans and feet; supply: 12 V customer supplied; cooling: Thermal Plate customer supplied/ Air Cooled
Rack Mount	248 x 436 x 83 mm; supply: Built-in; cooling: Air Cooled

Conditions and configuration notes

• The repetition rate and pulse duration are fixed choices within the stated intervals; those intervals are not a claim of user adjustment on every unit.

• Average power depends on wavelength, repetition rate and pulse settings. Maxima from different options must not be combined into one operating point.

• Optional fibre-Bragg-grating pulse stretching requires a matched compressor dispersion specification.