PICOSECOND

Picosecond fibre laser systems

Amplified picosecond sources with wavelength-specific output and pulse settings.

Applications to discuss: Time-resolved spectroscopy; Optical metrology.

Selection points
1020-1570 nm selected bands / 6-100 ps listed options / 10-100 MHz configured repetition rate

Configuration options

Centre wavelength	Pulse duration	Repetition rate	Average power	Spectral width
1020-1080 nm	6-60 ps	10-100 MHz	>1 W	Near transform limited
1120-1240 nm	15-100 ps	10-100 MHz	> 0.5 W	Near transform limited
1540-1570 nm	8-100 ps	10-100 MHz	>1 W	Near transform limited

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

Technical details

Parameter	Specification or condition
Output format	Configured picosecond pulse train

Integration and delivery

Item	Configuration detail
Lab	287 x 196 x 71 mm; 287 x 196 x 99 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.

• A near-transform-limited description is qualitative here; confirm the numerical spectral bandwidth for the chosen pulse.