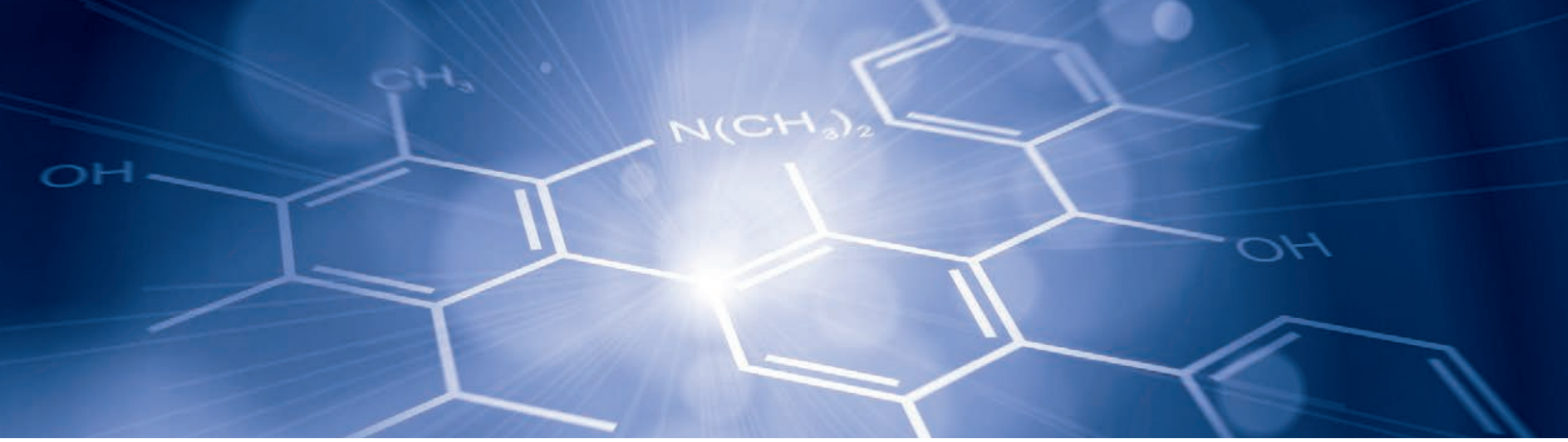


CPC-II

Compact Pulse Compressor for Vitara

The CPC-II pule compressor accessory for Vitara is designed to deliver near transform-limited pulses at the target sample. The CPC-II achieves this by introducing continuously variable negative Group Delay Dispersion (GDD/prechirp) to precisely compensate for normal dispersion of downstream optics. Using chirped-mirror technology, the CPC-II provides an ultra-compact footprint for maximum ease-of-use and the input and output beam ports are in line to enable simple experimental setups.

FEATURES & BENEFITS

- Maximizes peak power for enhanced nonlinear processes
- Coarse and fine GDD control for precise pulse compression
- In-line input and output ports for easy alignment
- Pre-compensates for positive dispersion from downstream optics
- Ultra-compact footprint

APPLICATIONS

- Second Harmonic Generation
- THz Generation
- Coherent Anti-Stokes Raman Scattering (CARS)
- Multiphoton Imaging
- Non-Linear Optics

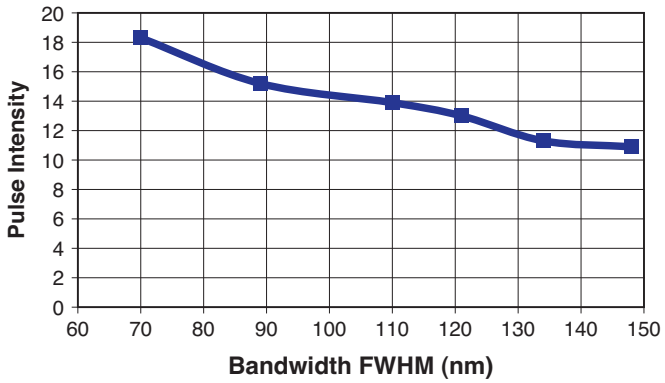
COHERENT®
Superior Reliability & Performance

SPECIFICATIONS[1]	CPC-II
Typical GDD Compensation Range (fs^2) (±10%)	-440 to -2640
Course GDD Tuning Step Size (fs^2)	10 steps of approx. -220
Fine GDD Tuning (fs^2)	Continuous over approx. +400
Transmission Efficiency (%)	>75
Input Wavelength Range (nm)	700 to 900
Input Bandwidth (nm)	≤125
Typical Output Pulse Length[2] when used with Vitara-T[3] (fs) for 100 nm bandwidth for 50 nm bandwidth for 30 nm bandwidth	 <15 <25 <40
Input Beam Diameter (mm)	~2

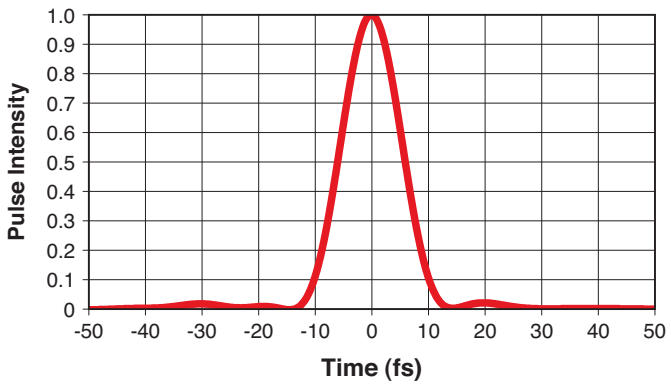
1 Subject to change without notice.
2 Assumes an autocorrelation deconvolution factor of 0.65.
3 Pulse length and bandwidth defined at FWHM.

TYPICAL PERFORMANCE DATA

Typical Compressed Pulse Width from Vitara-T with CPC-II



Typical Compressed Pulse Width from Vitara-T with CPC-II (pulse measured using FC Spider)



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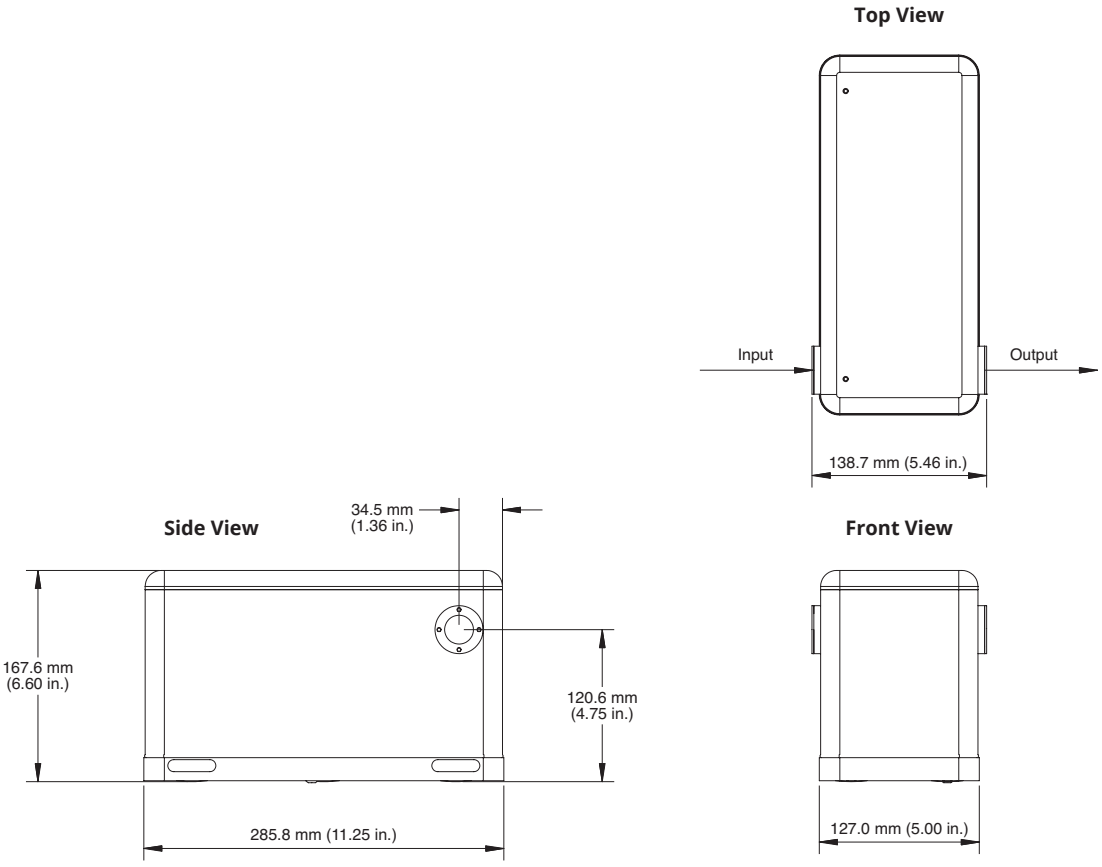
MECHANICAL SPECIFICATIONS

CPC-II



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