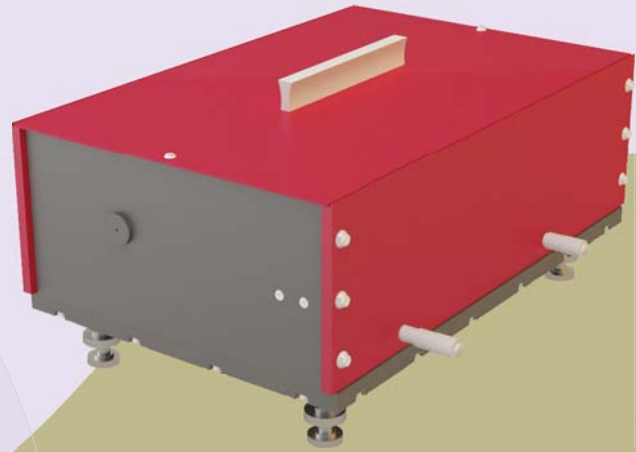


Components



Pulse Compressor APC

- Negative dispersion up to $-13000 \text{ fs}^2 @ 800 \text{ nm}$
- Transmission $>90\%$
- Integration into Atseva's laser systems
- Automated adjustment



APC pulse stretcher/compressor

Product overview

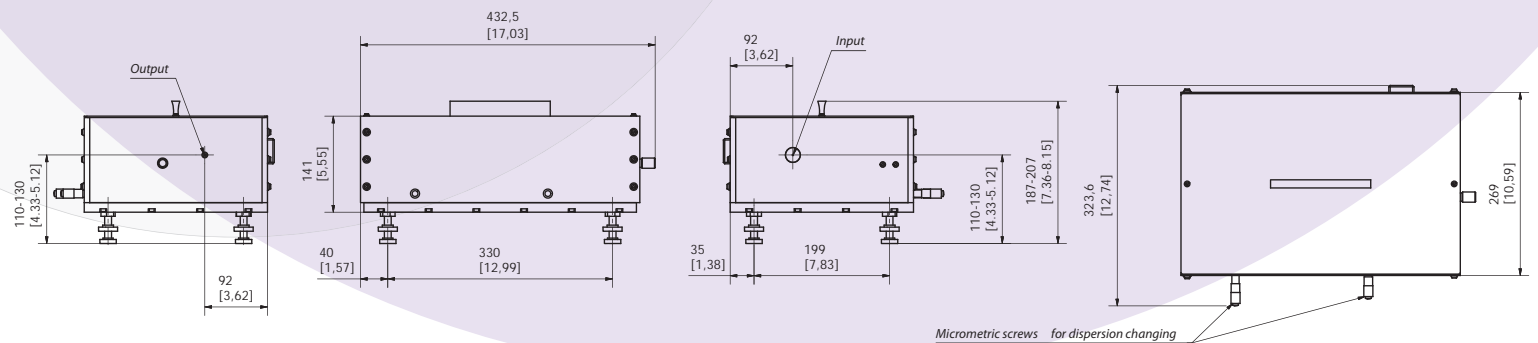
Stretching of fs pulses in microscopes due to dispersion introduced by optics is a well-known problem leading to substantial degradation of experimental results, especially with pulses shorter than 100 fs. The APC prism pulse stretcher/compressor unit provides control over the dispersion characteristics of your femtosecond laser radiation. The unit prepares femtosecond pulses to be positively dispersed while going through various optical elements of the microscope by introducing negative dispersion. Thus, the pulse duration at the sample becomes equal to the input pulse duration before the microscope. The system has a bypass function that allows the beam to pass through unaffected.

The APC-800/7000 model may also be used for other purposes that require pulse stretching or compression, as this model is able to introduce both negative and substantial positive dispersion values.

The unit can be automated with USB motors and PC software for easier control.

The unit is best suited by the AA-M autocorrelator with two detectors for most precise pulse duration control at the input of your microscope and at the very sample position.

APC technical specifications



	APC	
Wavelength ranges, nm	700-900*	
Dispersion range min-max, fs^2	(+7000) - (-7500)**	(+1000) - (-13000)**
Additional internal beam path, m	2.3	2.8
Max. input beam diameter, mm	4	
Input polarization	horizontal (polarization rotator optional)	
Transmission	$>90\%$ @800 nm	
Dimensions, mm	410x324x186	

* - other wavelengths available upon request

** - other dispersion ranges available upon request