

Femtos

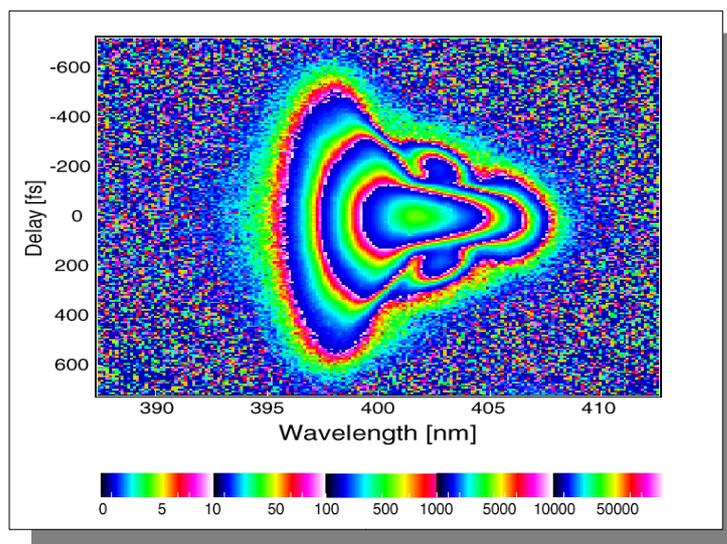
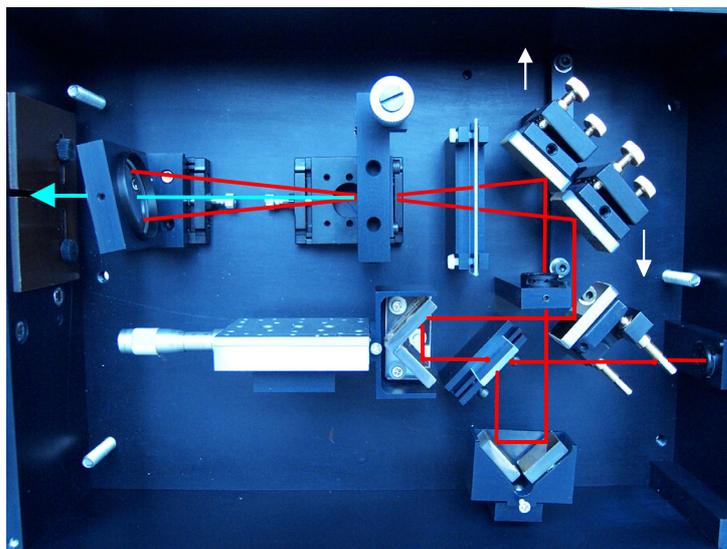


Standard:

- wide measuring range from 1 to 5 ps
- high sensitivity <70 pJ

Option:

- Short puls-down to 30fs (the only dispersive component is the beamsplitter wit 0.2 mm glas plate.)
- Possible of high dynamic mearing using cooled camera (16bit)



Specification

Wavelength range:	600 - 1300 nm
Sensitivity:	< 70 pJ (at 780 nm, 100 fs, 76 Mhz, beam diameter 3 mm)
Max. energy:	< 30 μ J
Time measuring range:	1.5 - 5 ps
Time resolution:	< 3×10^{-3} x measuring range
Dynamical range:	256 (10^3 optional , 10^5 on request)

Dispersive Optics

Central wavelength range:	300 - 800 nm
Spectroscopic range:	30 nm - 90 nm
Spectroscopic resolution:	< 0.2 nm at 400 nm
Linear dispersion:	1.8 nm/mm at 400 nm
Absolute wavelength accuracy:	< 1 nm

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Femtocompact (new)

- all reflective optics (small dispersion)
- suitable for 10 fs pulse
- small size
- low costs
- simple adjustment

Specification

Wavelength
range: 600 - 1300 nm
Sensitivity:
Beam diameter: >10 mm
Max. energy: < 30 μ J
Time measuring
range: 700 fs
Time resolution: < 2 fs



The new developed FEMTOS-compact is the extension of the measuring range down to 10 fs. The new correlation part has all reflective optics. The dispersive optics is compatible to the standard Femtos and can be exchanged..The correlator part can be removed and be used as a stand alone compact single shot correlator.