

## CE Optics Ltd.



### Company profile:

The company has been established in 2007, as a spin-off company from the Tewati Group, at Department of Optics and Quantum Electronics, University of Szeged. Our products are related to ultrafast laser diagnostics, dispersion measurement and control, including frequency comb and carrier envelope phase.

We are located in the city of Szeged, which excels at optical and laser sciences in higher education and academic applications, including several institutions and departments of the University of Szeged as well as the Biological Research Centre. Furthermore, Szeged hosts the soon-to-be-completed attosecond laser facility, ELI-ALPS.

Spatiotemporal compression and carrier-envelope phase stability of ultrashort pulses are among the most important issues of chirped pulse amplification (CPA), the most common method to achieve high intensity laser beams. Successful shaping of the temporal envelope and recombination of the spectral components of the broadband pulses need careful alignment of the stretcher-compressor stages. Several diagnostic techniques have been developed so far for the characterization of ultrashort pulses. Some of these methods utilize nonlinear optical processes, while others based on purely linear optics, in most cases, combined with spectrally resolving device.

Generally, CE Optics Ltd. provide a solutions based on the latter category of the ultrafast diagnostic methods. We utilize the exceptional precision and almost requirement-free properties of spectrally resolved interferometry. Due to wavelength independence and scalability, our products are easily customizable for your needs. Please browse our scientific publications to find examples of applications.

### Fields of cooperation: -

- **Research and development of diagnostic systems for ultrafast applications**
- **Spectrally resolved interferometry systems**
- **Customized 2D imaging spectrographs**
- **Material dispersion, chirped mirror dispersion characterization**
- **Angular dispersion measurement**
- **Carrier-envelope phase detection and stabilization**
- **High damage threshold, broadband and dispersion-free polarization rotation and pulse control solutions**
- **General consultancy in ultrafast sciences**

### Contact:

E-mail: [info@ceoptics.hu](mailto:info@ceoptics.hu)

Web: [www.ceoptics.hu](http://www.ceoptics.hu)