# FASTLITE

#### Ultrafast - Shaping - Measurement - Control



## FRINGEEZZ

**Integrated CEP detector** 

## **Specifications**

SINGLE SHOT CARRIER-ENVELOPPE-PHASE MEASUREMENT

- √ Single-shot CEP measurement at multi-kHz repetition rates
- √ Real time data analysis and data logging
- ✓ Plug and play feedback with the Dazzler CEP module

CEP measurement speed

up to 15 kHz

- Maximum laser repetition rate for single shot measurements > 100 kHz
- Measurement resolution

6 - 10 mrad

• Real time software analysis

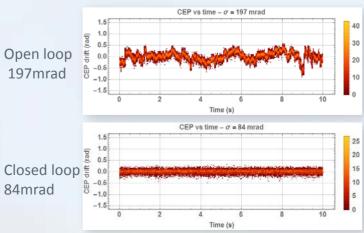
PSD, Statistics, Data-logging

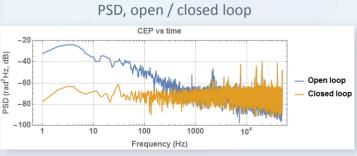
- Hardware-only feedback, loop management by software.
- Optical input requirements
  - o 5 to 15 interference fringes
    - On a 80 nm bandwidth centered between 800 and 900 nm

Or

- On a 30 nm bandwidth centered around 510 nm
- Fringes contrast >50% Entrance slit 50μm
- o Energy 15-25nJ on the specified bandwidth

### ✓ Record CEP stabilization data with the Fringeezz / Dazzler loop





CEP data from Fastlite STARZZ OPCPA

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