



## Fringeazz NIR Integrated CEP detector

### Single-shot carrier-envelope 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 up to 1 MHz
- Resolution 6 – 10 mrad
- Real time software analysis PSD, statistics, data-logging
- Hardware-only feedback, loop settings management by software
- Optical input requirements
  - 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 50 $\mu$ m
  - Energy 15-25nJ on the specified bandwidth

### ✓ Special feature for Ti:Sa amplifiers optimization

