

OFD



OPTICAL FREQUENCY DISCRIMINATOR

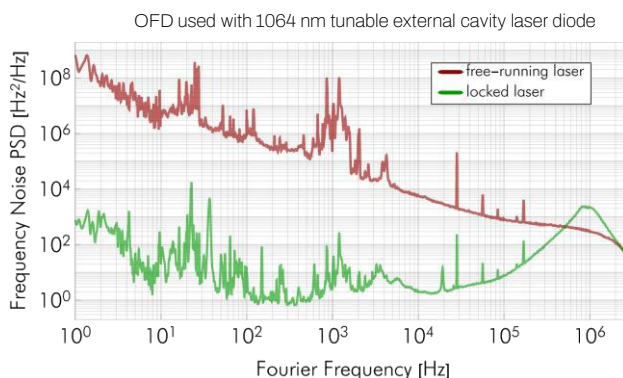
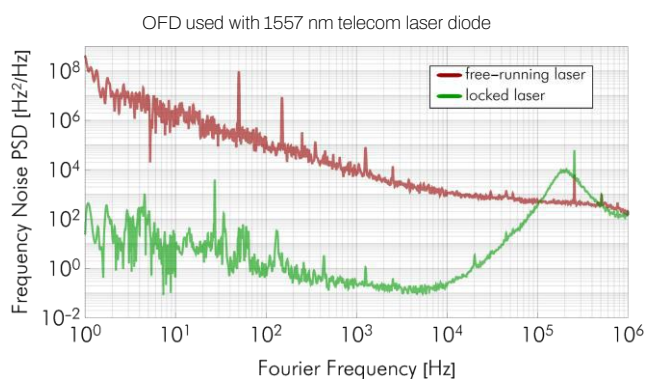
The OFD system smartly delivers a voltage signal that is proportional to the frequency fluctuations of the input laser beam. This turn-key module is suitable for laser frequency noise characterization and/or for laser frequency stabilization to drastically reduce its optical full width at half maximum linewidth. The OFD features ultralow noise performances that can successfully achieve frequency noise levels as low as $0.01 \text{ Hz}^2/\text{Hz}$, while remaining in a compact and user-friendly package.

SPECIFICATIONS

- Laser type: single-frequency continuous wave
- Available wavelengths: from 400 nm to 2200 nm
- Optical power in: $\sim 200 \mu\text{W}$ before saturation
- Optical input: typ. FC/APC connection
- Electrical output voltage range: $\pm 3 \text{ V}$ max
- Electrical output connector: SMA female
- Free Spectral Range (FSR): typ. 1 MHz to 1 GHz
- Frequency noise floor limit: typ. $< 0.01 \text{ Hz}^2/\text{Hz}$
- Typical laser linewidth achievable: down to Hz-level
- System weight: 8.2 kg
- System dimensions: $360 \times 360 \times 88 \text{ mm}^3$
- External control of the optical module temperature

UV-VIS-NIR-MIR
1 to 2 channels

PERFORMANCES



Coming soon: OFD 3rd generation !

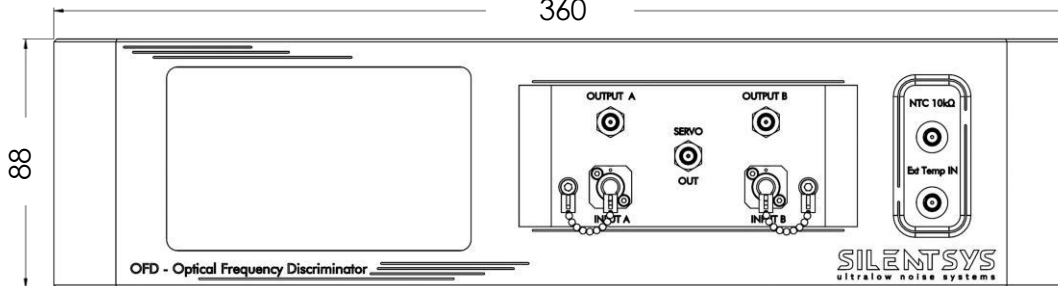


PRODUCTS

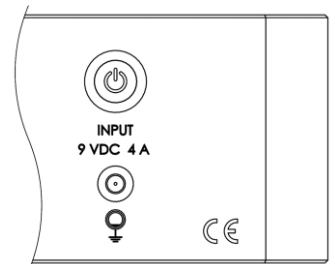


DRAWINGS

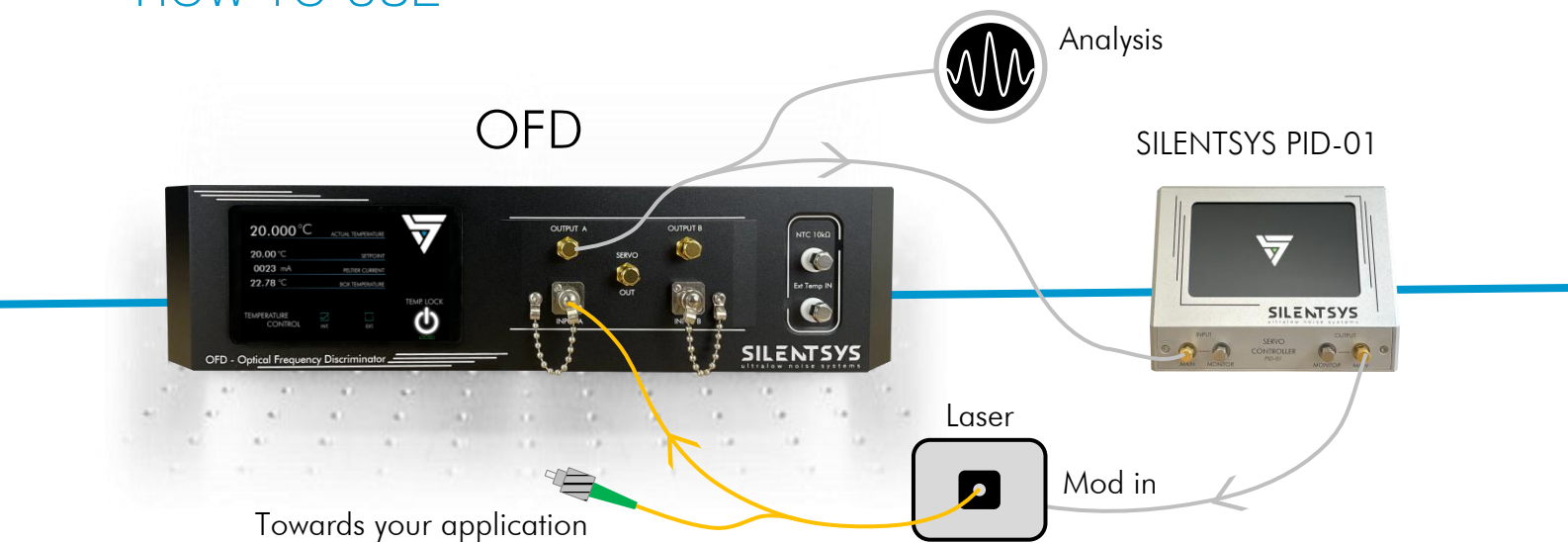
FRONT
VIEW
360



BACK VIEW
(cropped)



HOW-TO-USE



ENHANCE YOUR LASER
WITH SIMPLICITY !

