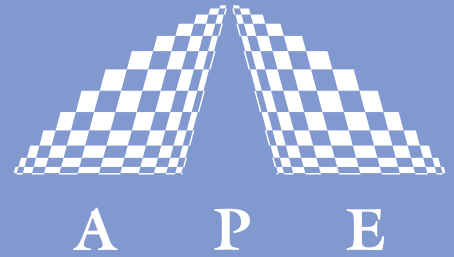


LEVANTE IR



PICOSECOND-OPO



Levante IR is one out of the series of synchronously pumped picosecond-OPOs by APE.

Due to the use of a small and robust modelocked Nd:VANADATE laser as pump source **Levante IR** is compact and cost efficient. It allows the generation of ps-pulses with small bandwidth at high output power in the IR range. The pump- and OPO-pulses are intrinsically jitter free.

The system utilizes periodically poled crystals as gain medium. Wavelength tuning is achieved by temperature tuning of multiple gratings crystals.

Ultrafast Pulse Diagnostics

Wavelength Conversion

Pulse Management

Acousto-optics

Your Partner in Ultrafast

TECHNICAL DATA

| | |
|-----------------------------------|--|
| Wavelength range (signal) | 1450 ... >1920 nm |
| Output power (signal) | > 1.0 W (typically 1.5 W) @ 5 W pump > 2.0 W (typically 3.0 W) @ 10 W pump |
| Bandwidth | typically 0.6 nm @ 1600 nm |
| Pulse duration | ~ 8 ps @ 7 ps pump |
| Typical time bandwidth product | 1.5 times transform limit |
| Pulse repetition rate | 76 MHz |
| Idler wavelength range (optional) | 2.4 ... 4.0 μm |
| Idler output power (optional) | > 350 mW (typically 500 mW) @ 5 W pump > 650 mW (typically 1000 mW) @ 10 W pump |

APE Levante IR is delivered with a spectrometer included

Available also for 532 nm pump: **Levante Emerald**

DIMENSIONS (W*L*H in mm)

Control Electronics: 267 x 312 x 180

Optical unit:

