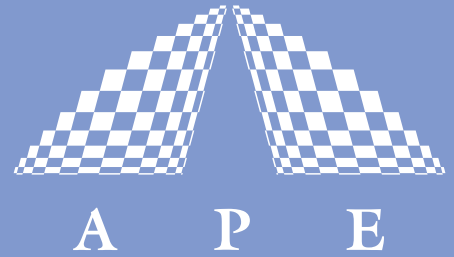


LEVANTE IR



PICOSECOND-OPO



The **Levante IR OPO** is a synchronously pumped OPO with a mode-locked picosecond Nd:Vandate laser as fixed wavelength pump source. The Signal and Idler pulses generated in the OPO are intrinsically jitter free with regards to the pump laser pulses. The use of a fixed wavelength pump laser simplifies the pump laser architecture and delivers high output power.

The OPO utilizes periodically poled crystals as gain medium. Wavelength tuning is achieved by temperature tuning of multiple gratings crystals. The accessible wavelength range for the Signal output is 1450 ... 1920 nm and the wavelength range for the Idler output (optional) is 2400 ... 4000 nm.

The **Levante IR** is a versatile narrow bandwidth light source for picosecond pulses. When combined with extra-cavity SHG (Second Harmonic Generation), THG (Third Harmonic Generation) of the HarmoniXX series and difference frequency generation, almost every wavelength from 250 nm up to 16 μm can be generated.

Perfect pulse synchronization in space and time

Automated wavelength tuning

Ultrafast Pulse Diagnostics

Wavelength Conversion

Pulse Management

Acoustooptics

Your Partner in Ultrafast

SPECIFICATIONS

Wavelength range (Signal)	1450 ... 1920 nm
Output power (Signal)	> 1.0 W (typ. 1.5 W) @ 5 W pump > 2.0 W (typ. 3.0 W) @ 10 W pump
Bandwidth	typ. 0.6 nm @ 1600 nm
Pulse width	~ 8 ps @ 7 ps pump
Time bandwidth product	typ. 1.5
Pulse repetition rate	approx. 80 MHz (depending on pump laser)
Idler wavelength range (optional)	2.4 ... 4.0 μm
Idler output power (optional)	> 350 mW (typ. 500 mW) @ 5 W pump > 650 mW (typ. 1000 mW) @ 10 W pump

OPTIONS

Output of Idler beam
Autocorrelator

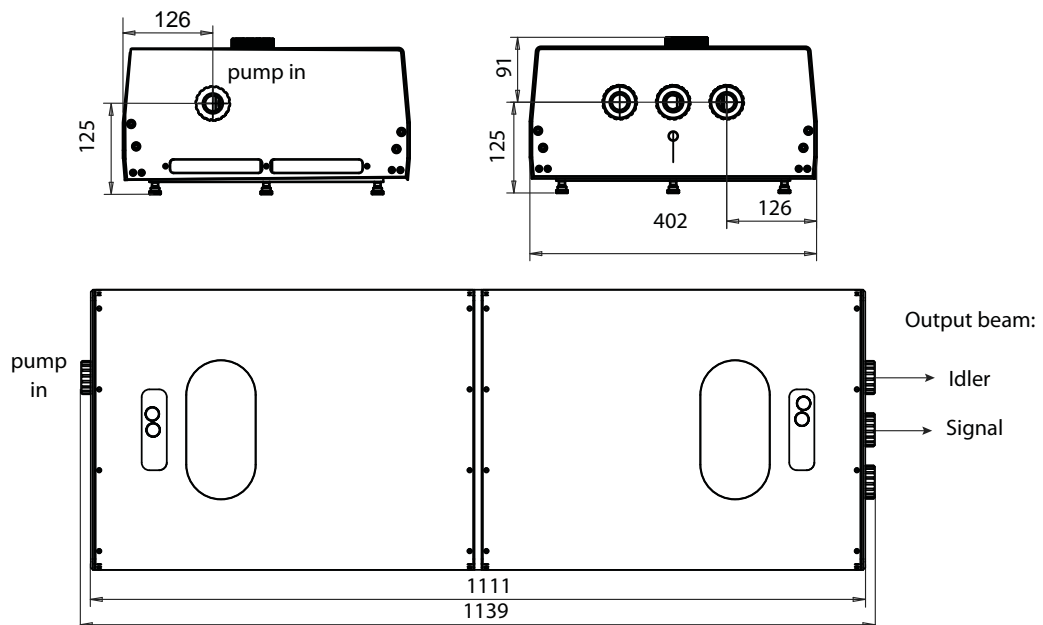
The **Levante IR** is delivered with a spectrometer included

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

DIMENSIONS (in mm)

Control electronics (W x H x D) 267 x 180 x 312

Optical unit:



Distributors

see APE website www.ape-berlin.com

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APE follows a policy of continued product improvement. Therefore, specifications are subject to change without notice.