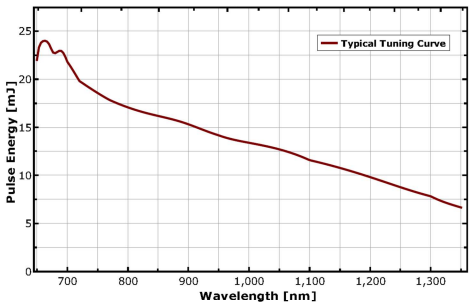
Montfort Laser™
GmbH

M-NANO-OPO Nanosecond Tunable OPO Laser 660-1300nm [PR195]



Description

The M-NANO-OPO is a particularly compact, all-in-one and air-cooled nanosecond OPO-laser system pumped by an M-NANO with SHG as the front end. This product was developed in close collaboration with GWU-Lasertechnik in Germany, a renowned maker of OPO systems, and the OPO part is manufactured by GWU. This All-in-One M-NANO-OPO includes all electronics/drivers and cooling (air-cooling) and is ready-to-operate without any further driver or coolers: just provide the 24 VDC (e.g. from a laptop-like power supply included for easy set up), safety & commands - and out come the pulses.

Application Examples

- PA - Photoacoustic Medical Imaging
- Illumination
- Fluorescence applications
- Research

Features

- Fiber bundle port #1 (fiber-bundle per customer specification)
- Residual 1064 nm output at port #2 with up to >~100 mJ @ 1064 nm
- Fast wavelength switching: any wavelength sequence from shot to shot (programmable)
- Can be integrated into 19" rack housing
- Designed for compact and mobile instrumentation
- Optional free-space output
- Optional idler output (900-2500 nm)

Specifications

Model	M-NANO-OPO [PR195]
Wavelength (center)	660 … 1300 nm tunable (OPO, port #1), 1064 nm (port #2)
Pulse Energy	>20 mJ (@690 nm, 20 Hz, at port #1)
Average output power	>0.4 W (@690 nm, 20 Hz, at port #1)
Pulse repetition rate*	20 Hz
Pulse duration (FWHM)	8 ns (+/-5 ns)
Beam quality M^2 (typical)	<5 (1064 nm, at fiber bundle port #2)
Fiber bundle optical aperture	pls. specify
Trigger output	TTL into 50 Ohms, Jitter <~ 1ns
Supply voltage	24 VDC
Size (l x w x h)** (incl driver & air-cooling)	~346 x 414 x 167 mm
Ambient temperature	15 … 30°C
Acoustics	Quiet operation

* higher rep rates at reduced energy available upon request

**not including connectors, shutter, screws.

Dimensions