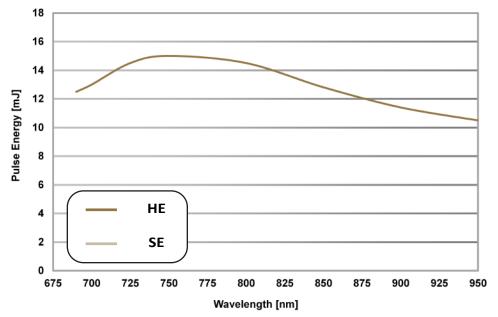


Phocus[™] Mini

Designed for portability, the Phocus[™] Mini generates nanosecond, NIR pulse energies for photoacoustic imaging applications that require less power. The entire laserhead fits into a 7x12" footprint and ships completely hermetically sealed to protect optical components from the environment. Requiring no installation, the system includes verification hardware to check alignment after shipping or relocation. The size of the system eases integration of the light source inside commercial instrumentation with space constraints. Wavelength tuning is motorized and computer controlled.



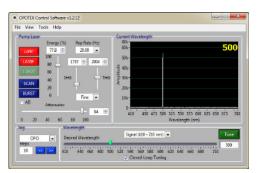
integrates pump laser, OPO and optics



Hermetically sealed Arrow[™] OPO Cavity with over 30% peak conversion efficiency. Tuning curves represent nominal values.



System includes access to residual 532/1064 pump laser beam.



Built in Wavemeter[™] monitors wavelength in real-time and provides feed-back for harmonics auto-optimization and Closed-Loop Tuning[™].

STEMS

www.opotek.com

Specifications

	Phocus™ HE MINI	Notes
Wavelength Range (nm)	690 - 950	motorized
Peak Pulse Energy (mJ)	15	see tuning curve nominal
Peak Efficiency (%)	> 30	peak OPO energy ÷ pump energy
Pulse-Pulse Stability (% RMS)	< 2.0	measured at 750 nm (1000 pulses)
Spectral Linewidth (cm ⁻¹)	30 - 80	theoretical
Linear Polariation	Horizontal	
Beam Divergence (mrad)	< 10	FWHM
Pulse Length (ns)	6	FWHM ± 2 ns nominal
Repetition Rate (Hz)	20	divide-by-N lower repetition rates
Beam Diameter (mm)	4	near-field
Residual 532 Pump Access (mJ)	20 - 25	varies based on OPO wavelength

Features

Integrated Pump Laser	Light and compact with quick connect cables and 50 million pulse flashlamp lifetime
Residual Pump Beam Access	Optical hardware to redirect residual 532/1064 beams for experimental use
Harmonics	Motorized phase matching, temperature-controlled, hermetically sealed
Alignment Verification™	Hardware provided to verify system alignment after movement
External Triggering	Flashlamp and Q-switch IN/OUT, TTL, BNC connectors
Computer Control	All laser and OPO functions, SCAN/BURST modes
Wavemeter™	Real-time wavelength monitoring, Closed-Loop $Tuning^{m}$ and harmonics auto-optimization R^{m}
Software Development Kit	Integration of system functions into third-party programming environments

Options





Dimensions

ation

Motorized Variable Attenuator

External PC-controlled optical attenuator to vary the OPO pulse energy, removeable

Protective Hard Case

Two protective hard cases with custom foam padding in place of standard wooden crate



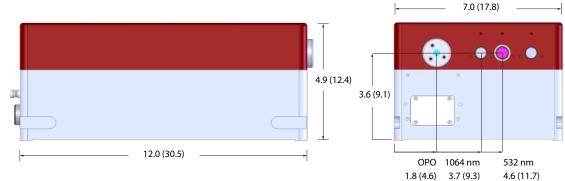
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Fiber Delivery

1 mm diameter, High Power SMA fiber (0.22 NA), coupling lens, mounting hardware

Fast Tuning[™]

Wavelength can be tuned to any value within 690 - 950 or 1200 -2400 nm at every pulse



OPO Laser Head OPO Control Electronics Pump Laser Power Supply

25 lbs (11 kg) 11.5 (29.2) x 10.3 (26.2) x 3.8 (9.7) | 5 lbs (2.3 kg) | universal line voltage 17.2 (43.5) x 5.3 (13.3) x 14.2 (36.0) | 31 lbs (14 kg) universal line voltage | closed-cycle water-cooled



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