

Actively Q-switched DPSS laser • picosecond pulse length • UV to IR • up to 6 W

HELIOS • PRODUCT LINE

APPLICATIONS

- Thin-film scribing (photovoltaics, electronics)
- Micromachining (engraving, quasi-cold ablation)
- Marking
- Electronics (dicing and repair, displays, OLED)
- Physics (time resolved luminescence measurements, spectroscopy)
- Biology (laser microdissection (LMD), matrix assisted laser desorption and ionization (MALDI), ophthalmology)

GENERAL FEATURES

- Diode-pumped solid-state laser
- Picosecond actively Q-switched laser
- Wavelength from UV to IR
- Single pulse trigger
- High repetition frequencies
- Superior reliability and ruggedness
- High volume OEM applications
- Low cost of ownership

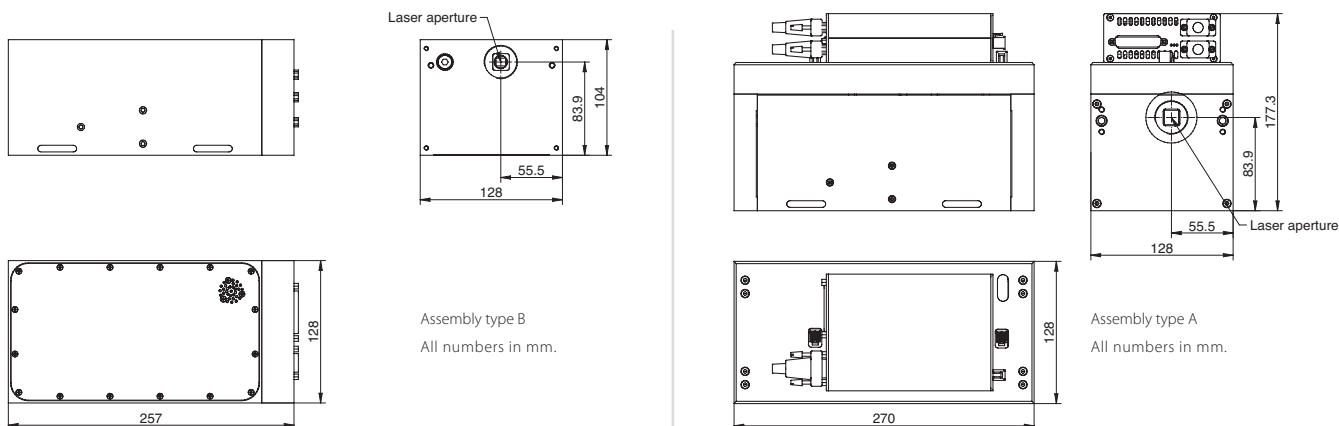


SPECIFICATIONS

	HELIOS	Unit
Wavelength	1064, 532, 355 ¹⁾	nm
Average power	≤ 6	W
Laser control electronics	Digital, OEM ²⁾	

¹⁾ Other laser materials and wavelength on request.

²⁾ Power supply not included, PC required.



THE ART OF SOLID-STATE LASERS

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HELIOS · PRODUCT LINE

SPECIFICATIONS

	HELIOS	Unit
Operational mode	Actively Q-switched	
Pulse repetition frequency	Single shot to 125	kHz
Pulse width (FWHM)	0.3...2	ns
Spatial mode	TEM ₀₀ (M ² < 1.2)	
Beam diameter (1/e ²)	1..6	mm
Polarization	Linear	
Jitter (laser pulse to trigger signal)	< ±1	ns
Laser head size, w · h · d	128 · 104 · 270	mm
Laser head size with integrated electronics, w · h · d	128 · 177 · 270	mm
Laser electronics size, w · h · d	150 · 45 · 130	mm
Laser head weight	5.6	kg
Laser head weight with integrated controller	9.5	kg
Laser electronics weight	0.7	kg
Base plate temperature	15...35	°C
Storage condition	0...50	°C
Relative humidity	< 80	%
Cable length laser head	≤ 3	m
Maximum inrush current	< 5	A
Operating voltage	24 ± 2	V

OPTIONS

Options

Fiber coupling

Power monitor

Motorized beam divergence control

The InnoLight Helios is a component intended for integration into an OEM made laser system. The OEM customer will be responsible for the system's compliance to any standards or other pertaining regulations. The device must be handled by personnel with experience of lasers in laboratory environment and with access to adequate laser safety equipment. The device contains elements sensitive to electrostatic discharge. Therefore, the device shall be handled in an ESD protected workstation. Subject to change without notice.

This product does not comply with US FDA CFR 21, section 1040.11 and 1040.11

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