

NEW PRODUCT

TITANTM

Broadly Tunable CW OPO-Based Laser System



Key Features

- Broad tuning across 725 – 990 nm, 1150 – 1980 nm and 2300 – 4200 nm
- High output power with >5 W at peak of the range
- Excellent beam pointing stability with wavelength
- TEM₀₀ spatial profile
- Hands-free operation with dedicated control software. Control drivers available
- Sealed, compact, and virtually maintenance-free
- Integrated spectrometer

Applications

- Spectroscopy
- Metrology
- Sensing
- IR communications
- Microscopy
- Semiconductor research

The TITAN™ is an extraordinary CW OPO which provides seamless spectral coverage across the visible and IR wavelengths with unprecedented power.

Featuring five output ports, the TITAN™ delivers: 1) 1064 nm, 2) 725 – 990 nm, 3) 1150 – 1450 nm, 4) 1450 - 1980 nm and 5) 2300 – 4200 nm with a single source. Such a superior spectral coverage is provided with exceptional output powers across the range (>5 Watts at peak wavelength). This, together with the inherent high beam pointing stability, beam quality and power stability, make the TITAN™ an ideal source for spectroscopy, microscopy and sensing applications.

As a sealed and fully-automated system, it provides hands-free operation where any wavelength can be rapidly tuned by the click of a mouse via the dedicated control software. Control drivers are also available.

Virtually maintenance-free, this CW OPO system provides a compact, robust, user-friendly and versatile laser source for demanding applications in multiple industrial, sensing and scientific research.

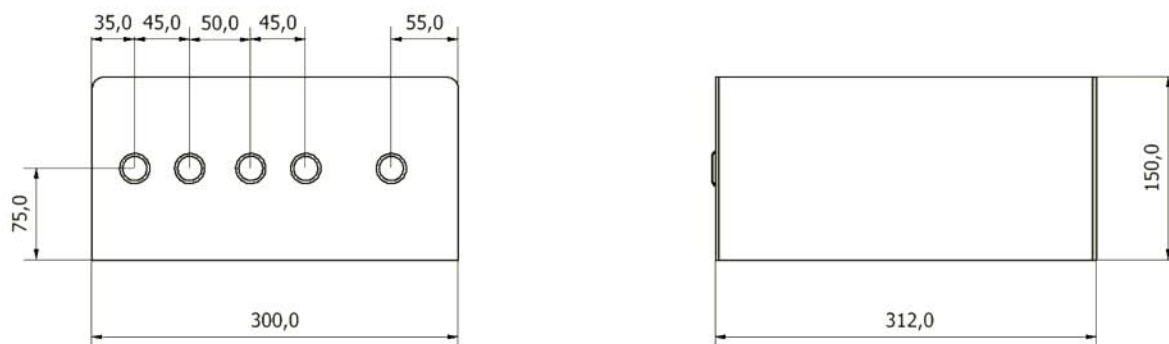
Specifications¹

Output Characteristics	Titan SID0	Titan SID1	Titan SID2
Tuning range			
Output 1	1450 - 1980 nm	1450 - 1980 nm	1450 - 1980 nm
Output 2	2300 - 4200 nm	2300 - 4200 nm	2300 - 4200 nm
Output 3		1150 - 1450 nm	1150 - 1450 nm
Output 4			725 - 990 nm
Output power			
Output 1		> 5 W at 1650 nm	
Output 2		> 5 W at 3000 nm	
Output 3 ⁽²⁾		> 500 mW	
Output 4 ⁽²⁾		> 500 mW	
Linewidth		< 100 MHz	
Beam diameter at 1650 nm		3.0 mm +/- 10%	
Beam diameter at 3000 nm		5.0 mm +/- 10%	
Spatial mode		TEM ₀₀ M ² ≤ 3	
Beam pointing		< 40 μrad	
Signal noise at 1300 nm		< 8% rms	
Power stability		5%	
Polarization		Linear	
Size (W x L x H)	312 x 300 x 150 mm (12.6 x 11.8 x 5.9 inch)		

Notes

- ⁽¹⁾ Specifications are subject to change without notice
⁽²⁾ At peak of pump and OPO tuning range

Titan™ Dimensions



Dimensions in mm