

NEW PRODUCT

TITAN CW OPO

Broadly Tunable CW OPO-Based Laser System



Key Features

- Broad tuning across 1450 - 1980 nm and 2300 - 4000 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 three output ports, the TITAN delivers: 1) 1450 - 1980 nm, 2) 2300 - 4000 nm, and 3) 1064 nm with a single source. Such a superior spectral coverage is provided with an exceptional output power 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.

Specifications⁽¹⁾

Output Characteristics	Titan SID1 HP	Titan SID1 LP
Tuning range		
Output 1	1450 - 1980 nm	
Output 2	2300 - 4000 nm	
Output 3	1064 nm	
Output power⁽²⁾		
Output 1	> 5 W	< 1W
Output 2	> 3 W	< 1W
Output 3 ⁽³⁾	> 10 W	N/A
Linewidth		
Output 1	< 100 MHz	
Output 2	< 5 GHz	
Beam diameter at 1650 nm	3.0 mm +/- 10%	
Beam diameter at 3000 nm	5.0 mm +/- 10%	
Spatial mode	TEM ₀₀	
Beam pointing	< 40 μrad	
Signal noise	< 5% rms	
Polarization	Horizontal	
Size (W x L x H)	576 x 350 x 215,8 mm (22.7 x 13.8 x 8.5 inch)	

Notes

⁽¹⁾ Specifications are subject to change without notice

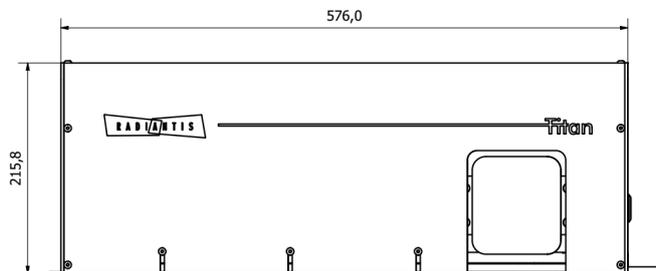
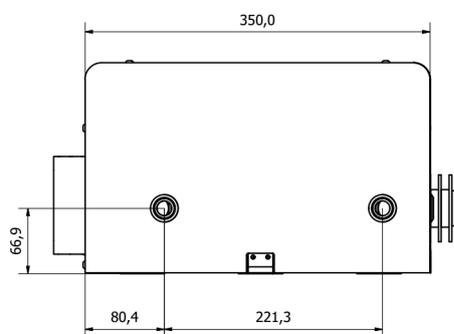
⁽²⁾ At Peak of OPO tuning range

⁽³⁾ Available upon request

TITAN - Typical Tuning Curve



TITAN Dimensions



Dimensions in mm