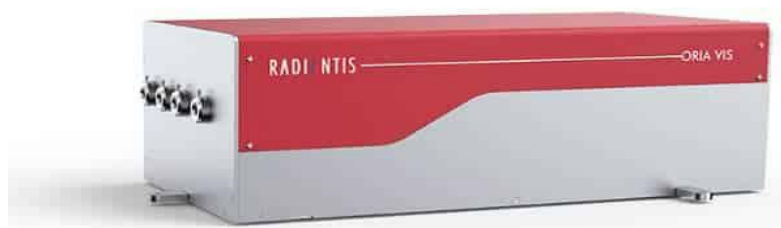


ORIA VIS FEMTOSECOND SHG MODULE

Product: ORIA VIS FEMTOSECOND SHG MODULE



Key Features

- Highest power with >400 mW at the peak of the tuning range.
- Four outputs are available:
 - 1.990 – 1550 nm (6451 – 10101 cm⁻¹) at full power,
 - 2.95 – 775 nm (12903 – 20202 cm⁻¹),
 - 3.1696 – 4090 nm (2444 – 5890 cm⁻¹),
 - 4.990 – 1550 nm (6451 – 10101 cm⁻¹) undepleted.
- Excellent beam pointing stability with TEM₀₀ spatial quality.
- Hands-free operation with a dedicated control software. Control drivers available.
- Compatible with most commercial femtosecond sources tunable across 990 – 1550 nm (6451 – 10101 cm⁻¹).

Description:

A femtosecond SHG module with unprecedented spectral coverage, turning the IR OPO wavelengths, across 990-1550 nm (6451 – 10101 cm⁻¹), into the visible, across 495 – 775 nm (12903 – 20202 cm⁻¹). The ORIA VIS offers exceptional conversion efficiency (>40 %), providing powers >400 mW with excellent stability. With reduced pulse broadening and superior spectral and spatial beam quality, this compact doubling unit offers an excellent tool for a wide range of applications requiring femtosecond light pulses at MHz repetition rates.

The ORIA VIS is fully-automated and tuning is controlled via a PC, offering alignment-free installation and simple and reliable operation. The automated ORIA VIS advanced control software ensures fast and reliable tuning within a few seconds, while providing a selection of practical operating features.

This doubling unit is designed to be pumped by standard ultrafast MHz repetition-rate IR OPOs, including Radiantis Oris IR.

Specifications:

Output Characteristics	Oria VIS
Tuning range	495 – 775 nm (12903 – 20202 cm ⁻¹)
Output power(2)	> 400 mW
Pulse width(3)	< 180 fs
Beam diameter at 525 nm	2.5 mm
Beam divergence	< 1 mrad
Beam displacement with wavelength	< 2.5 μm
Spatial mode	TEM00
Polarization	Vertical
Repetition rate	80 MHz
Size (W x L x H)	568.0 x 366.5 x 189.2 mm (22.4 x 14.4 x 7.5 inch)

Performance charts:

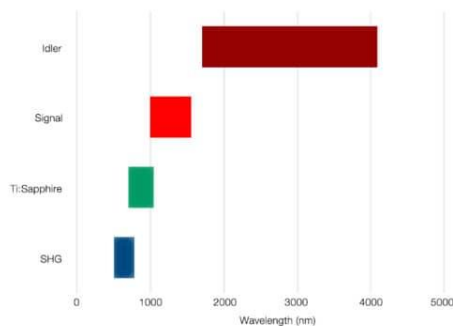
Typical Oria VIS Tuning Curve



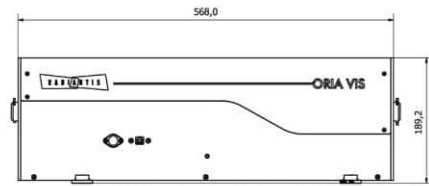
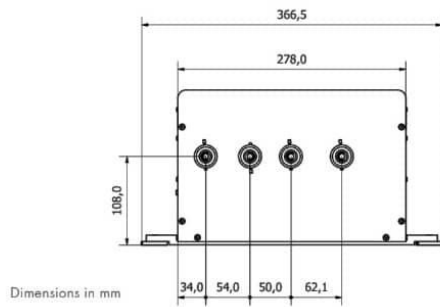
Oria VIS Diamond Plot



Oria VIS Wavelength Coverage

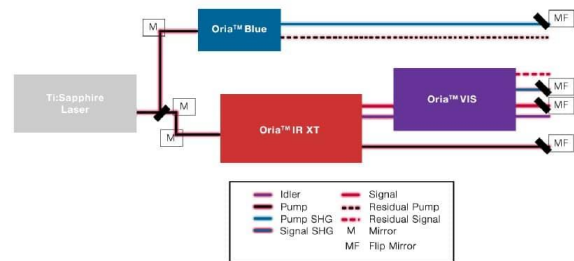
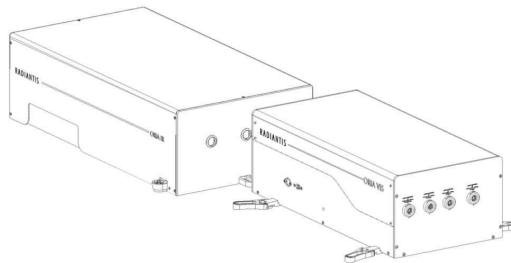


Dimensions:



Related products

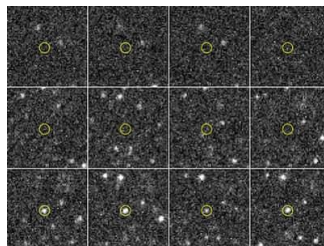
(IR OPO, Oria VIS and Oria Blue)



Applications



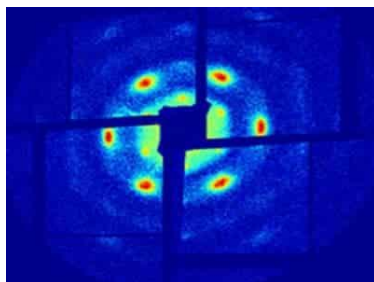
Nanophotonics



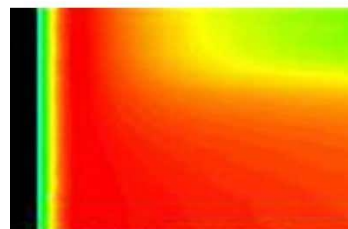
Single-molecule spectroscopy



Coherent anti-stokes Raman spectroscopy (CARS) and Raman microscopy



Pump-probe experiments



Time-resolved spectroscopy