

iFLEX-Agile™ Series CW Optical Parametric Oscillator

The New iFLEX-Agile Series is a high-power, continuous-wave OPO featuring exceptionally broad wavelength tunability.

Ideal for a variety of applications in mass spectrometry, material testing, spectroscopy, and metrology, this new compact instrument allows fine-tuning of specific wavelengths from NIR to MIR, for high-quality output beams of high intensity. Fully controlled via USB computer interface, iFLEX-Agile enables rapid and reproducible settings of any desired wavelength from 1.48 - 2.0 μ m and 2.3 - 3.8 μ m with output powers >1W in its basic configuration, and without any need to change optics or modules. iFLEX-Agile emission linewidths can

vary from 500 GHz to below 1 MHz depending on the configuration.

The modular concept allows modification of wavelength tuning range, emission linewidths and output power levels to cost-efficiently meet the custom requirements for specific applications including trace-gas analysis, material inspection, chemical reactions and IR-detector calibration. The iFLEX-Agile can also be customized for extended wavelength range (e.g. additional 740-950nm), narrow linewidth at 2300-3800nm, higher power levels, higher wavelength tuning resolution, and mode-hop free tuning ranges.

Features

- Broad-wavelength tunability at high-power continuous-wave outputs
- Rapid tunability across 1.48 - 2.0 and 2.3 - 3.8 μ m from a single OPO module without any optics change-out
- Output powers >1W
- Configurable with a variety of pump sources to yield a range of output powers and linewidths



iFLEX-Agile Series cw-OPO

Technical Specifications

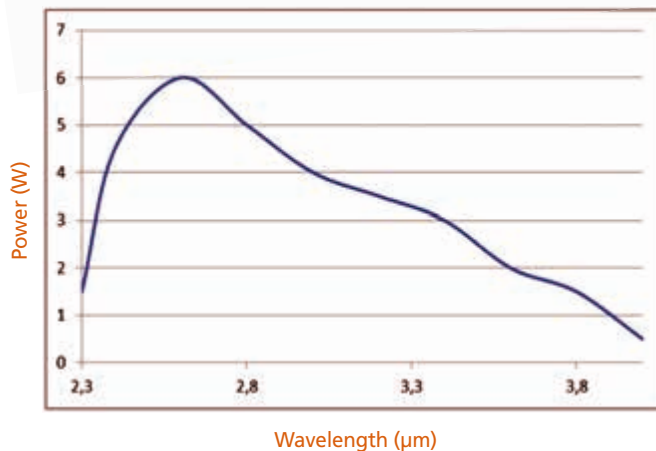
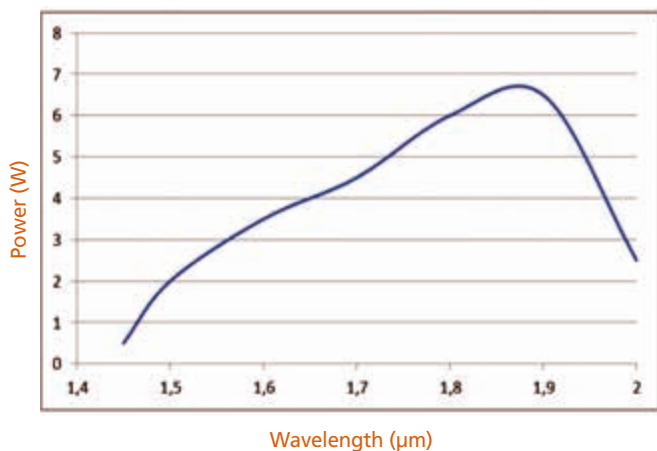
iFLEX-Agile Series cw-OPO	
Wavelength tuning range (Linewidth)	(nm) 1480-2000 (<1 MHz), 2300-3800 (appr. 300-500 GHz)
Output Power	(W) >1.0 (depends on wavelength, excluded OH-absorption around 2.8 μm)
Wavelength Tuning Resolution	(GHz) <300
Beam Quality	M^2 <1.3
Cooling	Air
Dimensions	Table-Top OPO-Head Module: 45 x 15 x 20 cm ³ (L x W x H) Pump Laser: 19" Rackmount 3U
Wavelength Setting	Via USB Interface

Custom Performance Available:

- Extended wavelength range (e.g. 740-950nm)
- Narrow linewidths at 2300-3800nm
- Higher power levels
- Improved wavelength tuning resolution
- Mode-hop-free tuning over ranges of >10GHz



Typical Power vs. Wavelength



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Technical data are subject to change without notice.