



March 16, 2010

Newsletter March 2010

High Power Ultrafast Oscillators for the Visible

Cher client,

Coherent provides the broadest portfolio of lasers across multiple technology platforms to give you the leading edge performance that your application demands.

For over 10 years Coherent's Mira OPO systems have offered the unique capability to cover the 500–700 nm gap between the fundamental Ti:Saph wavelengths (680–1080 nm) and the easily accessible SHG wavelengths (340–540 nm).

We're now proud to announce the latest innovation: independent tuning of the pump wavelength and the OPO wavelengths in the visible using innovative new OPO crystal technology.

These new OPO systems are compatible with Coherent's Ultrafast Oscillators in the Mira 900 and Chameleon family product range. This new development also comes in femto, pico and also dual (femto + pico) operating regimes.

Chameleon Compact OPO Technology

The Chameleon™ Ultra and Vision families of automated ultrafast lasers with the highest power (3.5W), and widest tuning range on the market (680 nm to 1080 nm), are now complemented by a new compact OPO. [Chameleon Compact OPO](#) extends automatically Chameleon tuning range to over 1,400 nm, enabling deep, less damaging in-vivo images and matching the newest trends in non-linear microscopy.

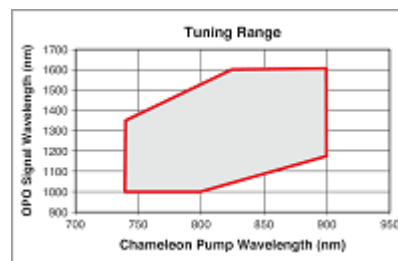


To download the latest Chameleon literature, please [click here](#).

Independent Tuning pioneered for

Chameleon and Compact OPO

Due to the new fanned grating technology, tuning the OPO is independent of the wavelength used to pump the OPO. Possible Chameleon and OPO Wavelength Combinations are in the shaded area.



Fanned Grating option now available for Mira

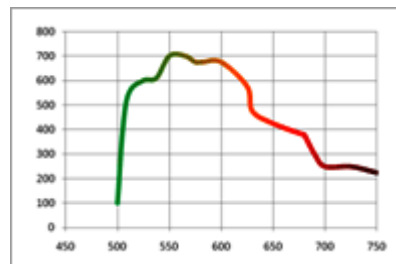
900 and Mira OPO

Adding to our Mira 900 high power line of femto, pico and dual (femto + pico) ultrafast oscillator, we introduce the fanned grating OPO. This system is electronically tunable over the 1000–1600 nm range, and also provides computer controlled access to the OPO idler wavelengths from 1600 nm up to 4 micron.



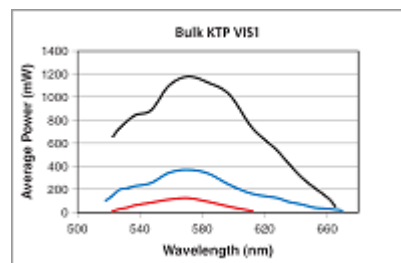
Unique 80% SHG conversion efficiency

To access the visible regime, the Mira OPO utilizes a proven technique: The unique intra-cavity frequency doubling of the Mira OPO allows for an extremely efficient conversion of the 1000–1500 nm wavelengths out of the OPO into the 500–750 nm visible range.



Power Hungry Applications: >1 Watt in the visible

For those applications out there requiring maximum visible power, we offer the intra-cavity frequency doubling with a unique set of crystals, allowing for powers in excess of 1 Watt of femto and/or picosecond operation in the visible.



The Mira OPO is a versatile system, compatible with a range of ultrafast oscillators.

Please enquire with your local sales office to explore these exciting new possibilities.

About Coherent, Inc.

Founded in 1966, Coherent, Inc. is a world leader in providing laser-based solutions to the commercial and scientific research markets.

To find out more about Coherent, visit our website at www.coherent.fr
or call 01 69 85 51 45.

Visit Coherent, a world leader in providing laser-based solutions to the commercial and scientific research markets with the largest Laser-Portfolio.

Superior Reliability & Performance

Coherent France, Domaine Technologique de Saclay, 4 rue René Razel, 91892 Orsay cedex
Tel : 01 69 85 51 45 – Fax : 01 69 85 51 46

Cliquez [ici](#) pour vous désinscrire