

# COHERENT, A REAL... CHAMELEON IN TUNABLE LASER SOURCES FOR MPE

A COMPLETE RANGE OF UF TECHNOLOGY INCLUDES THE CHAMELEON ULTRA AND VISION SERIES

■ Multiphoton microscopy demands laser technology that is simple to use and flexible enough to explore the widest range of wavelengths and fluorophores. Coherent offers the most powerful and flexible range of UF technology designed for completely hands-off operation, by presenting its Chameleon Family. The Chameleon Ultra and Vision Series of Ti:Sa lasers are market proven performers and workhorses of the MPE community. With high average power and the widest tuning range (680-1080 nm), Chameleon Ultra delivers optical pulses with GVD characteristics matched to most commercial MPE microscopes. By incorporating proprietary Power Pulse system, it can change color quickly (>40 nm/s) whilst optimizing output power and pulse width automatically and with the purpose-designed MRU air recirculator, it tunes

effortlessly through atmospheric water vapor absorption lines, without the need for an external purge.

Chameleon Vision lasers add dispersion compensation to deliver short pulses right to the sample plane, and the Vision-S (75 fs) system delivers higher peak power than other automated tunable Ti:Sa lasers available.

The Chameleon MPX is a wavelength extension that is pumped by Chameleon Ultra or Vision lasers and gives access to wavelengths up to 1340 nm. Its dual tunability capability enables powerful multimodal imaging techniques. The Chameleon Compact OPO and Compact OPO VIS extend the wavelength range of the Chameleon Ti:Sa laser from 240 nm to 4000 nm, for ultrafast spectroscopy and non-linear optics studies.



The new Chameleon Discovery is a high power, one-box, wide tuning range, dual output laser for MPE. Literally two lasers in one, it redefines the boundaries of what is possible for deep in-vivo imaging of all popular probes along with developing red shifted calcium indicators and opsins for optogenetics. Chameleon lasers require only single-phase AC power, and no external cooling water. The result is a truly hands-off, virtually maintenance-free laser system, which allows customers to put their focus where it belongs – on their work.

► [www.coherent.com](http://www.coherent.com)