

# Chameleon Discovery VUE Harmonics

## Visible and Ultraviolet Extension for Chameleon Discovery Lasers

Chameleon VUE Discovery is a Harmonics Generator for producing visible and UV wavelengths in an automated hands-free package.

When combined with the octave spanning tuning range of the Chameleon Discovery laser, users can access gap free output from 330 nm to 1320 nm. Ideal for ultrafast spectroscopy applications.

Discovery VUE SHG can communicate with the Discovery GUI software to automatically optimize crystal phase-matching as the wavelength of the fundamental laser varies. The modular instrument design focuses on user-friendliness and compactness, with software-controlled wavelength tuning available.

Great care has been applied to the optimization of the nonlinear conversion process within the module. As a result, high conversion efficiencies can now be achieved at all input power levels with minimum pulse broadening. The system is also designed to optimize beam pointing stability and beam intensity profile.

### FEATURES & BENEFITS

- Widely-tunable visible and UV for spectroscopy
- Gapless, 330 nm to 1320 nm tuning range when paired with standard Chameleon Discovery
- Automated phase-matching for ease of use
- High conversion efficiencies for non-linear optics experiments
- Excellent beam quality for microscopy applications such as FLIM and FRET
- Robust and compact design for long lifetime and low maintenance
- Compatible with all Chameleon Discovery lasers
- User GUI supplied

### APPLICATIONS

- Ultrafast Spectroscopy
- Transient Absorption Spectroscopy
- Non-linear Optics
- Fluorescence Lifetime Imaging

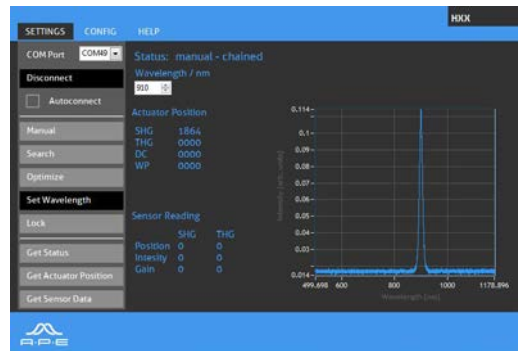
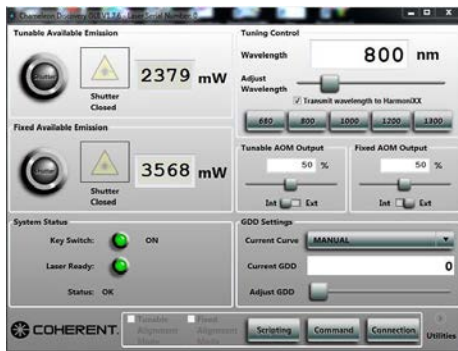
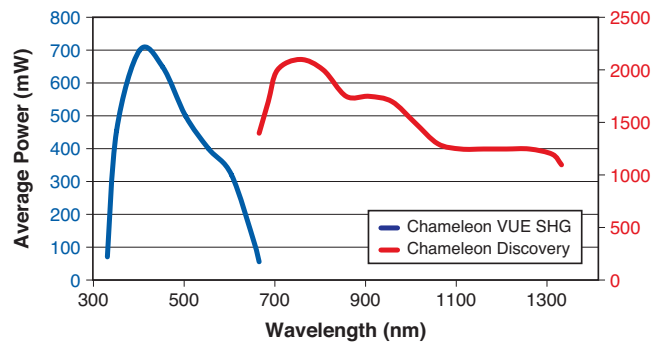


SPECIFICATIONS	Chameleon Discovery	Chameleon Discovery TPC
Tuning Range (nm)	330 to 660	340 to 650
Conversion Efficiency <sup>1</sup> (%)	>35	
MECHANICAL PARAMETERS		
Dimensions (L x W x H)	385 x 286 x 207 mm (15.2 x 11.3 x 8.1 in.)	

<sup>1</sup> At the peak of the tuning range.

## TYPICAL PERFORMANCE DATA

Typical Tuning Curve



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Coherent offers a limited warranty for all Chameleon systems. For full details of this warranty coverage, please refer to the Service section at [www.Coherent.com](http://www.Coherent.com) or contact your local Sales or Service Representative. Printed in the U.S.A. MC-XX-18-0M0518 Copyright ©2018 Coherent, Inc.

