

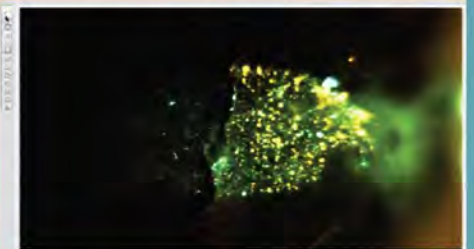
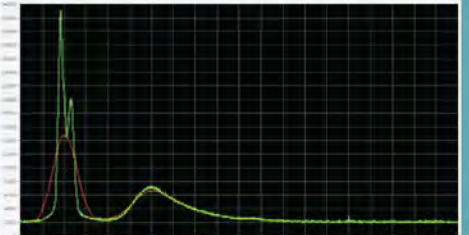
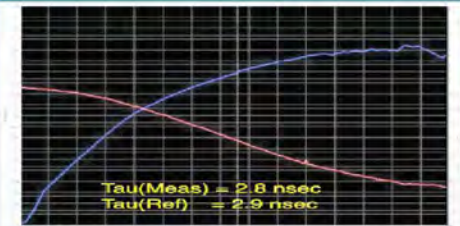


Redondo Optics, Inc.

Product Disclosure

Remote UV Fluorescence Lifetime Imaging Endoscope

RUVPhase™



Remote UV Fluorescence lifetime imaging endoscope system (RUVPhase™) for the remote microscopic measurement of chemical and biological fluorescent markers

The RUVPhase™ system features:

- 1) frequency domain fluorescence lifetime (μsec to psec)
- 2) UV-Visible Spectrometer
- 3) Microscopic Image Capture
- 4) Fiber optic spectroscopic Imaging Probe

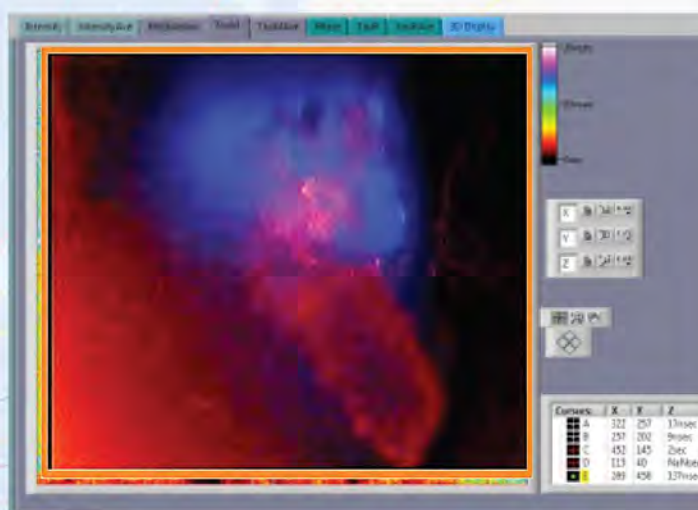
RUVPhase™ System Specifications

	Specifications
Monitoring Mode	Spectral mode “steady state” and “frequency domain” time resolved fluorescence lifetime
Imaging	2-Megapixel, (GiGe), CCD array (1920 x 1080 pixels)
Sources	Semiconductor laser diode (360-, 405-, 440-, 520-, and 635-nm)
	Optical output power \geq 50-mW's
Detectors	Frequency modulatable photomultiplier tubes PMTs
	Gain in the range of 10^6
Operation Mode	In-Situ using remote optical fibers
Wavelength Range	400-nm to 800-nm
Wide Dynamic Range	Frequency modulation from 0.1 KHz to 300 MHz
Lifetime Range	0.07-ms to 500-ps - Phosphorescence and Fluorescence Events
Lifetime Resolution	Better than 250-ps in the shortest lifetime range, and better than 20 us in the longest lifetimes.
Temperature Range	-40 °C to 85 °C
Signal Processor	Microcontroller – UV-VIS Sensor calibration
Data Communication	USB, Ethernet
Optical Connector	Fiber Optic SMA
Data Display	Lab-View Graphical Interface
Power Supply	120-VAC
Weight	40-lbs
Dimensions	19-in x 16.5-in x 7-in (WXDXH)

General Description

Redondo OpticsPhase™ system is based on measuring the laser induced fluorescence lifetime of target fluorophores in response to a spatially and temporally modulated laser light excitation signal at eye safe energy levels.

The fluorescence lifetime of the target fluorophores is measured using the principle of “frequency-domain” or “phase-locked” detection.



Contact Information

For further information on this or other products, please contact our sales department at (310) 406-1295 or e-mail sales@redondooptics.com.



Redondo Optics