

Integre Duo Red and Green Integrated Photocoagulator

PRICE	\$75,000
COMPANY	Ellex (Minneapolis)
PHONE	800-824-7444
WEB	www.ellex.com
KEY FEATURES	
<ul style="list-style-type: none"> • Fully integrated design • Single pump dual cavity provides instant wavelength selection, between 670-nm red and 532-nm green wavelengths • Superior optics provide even energy distribution across the spot • Optimized retina slit lamp allows better peripheral viewing 	

The Integre Duo is the first solid-state photocoagulator to deliver clinically proven red and green wavelengths, according to the company. The laser system makes it possible to instantly select either red or green wavelength during retina treatments, optimizing performance and ensuring effective patient results.

The Integre Duo's integrated design also includes a shorter travel distance for the laser beam and more stable, reliable and consistent delivery of energy. The True Spot optical system offers a uniform, sharp-edged top-hat beam on the retina, providing the benefits of a parfocal system, with the added comfort of low-power density at the cornea.

The lasers are manufactured with the highest quality optics, as well as real-time, active-light feedback that continuously monitors and adjusts power output, according to a company news release. Additionally, the optimized retina slit lamp combines a unique 10° convergence angle of viewing paths with high-resolution optics to create better depth perception and an improved stereo angle for superior peripheral viewing.



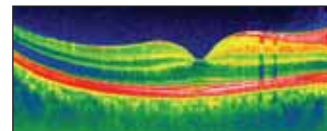
Spectralis HRA+OCT

PRICE	N/A
COMPANY	Heidelberg Engineering (Heidelberg, Germany)
PHONE	800-931-2230
WEB	www.heidelberg.com
KEY FEATURES	
<ul style="list-style-type: none"> • Heidelberg noise reduction technology • OCT cross-sectional scan under constant guidance of one of five fundus-imaging modalities • 40,000 A-scans per second 	

Heidelberg Engineering (Heidelberg, Germany) has introduced the Spectralis HRA+OCT to improve a physician's ability to monitor disease progression and treatment response over time.

In addition to Spectral Domain-OCT and Infrared, the Spectralis HRA+OCT also includes autofluorescence, red free imaging, fluorescein angiography and ICG angiography. The new model shares three key features with the earlier version: 40,000 A-scans per second, TruTrack eye-tracking technology, and Heidelberg noise reduction for image clarity.

"These are exciting times for eye care professionals—these new imaging devices provide reliable data that our predecessors never imagined," said Scott Cousins, MD, retinal specialist and Director of the Duke Center of Macular Diseases at Duke Eye Center, in a company news release. "Heidelberg has further improved upon spectral domain OCT by incorporating image alignment know-how from their experience with the HRA and HRT products. As a result, the Spectralis OCT can lock onto a specific location of interest on the retina and accurately relocate this site on subsequent exams."



RTVue-100 Fourier-Domain OCT

PRICE	N/A
COMPANY	Optovue Corporation (Fremont, CA)
PHONE	1-510-623-8868
WEB	www.optovue.com
KEY FEATURES	
<ul style="list-style-type: none"> • High-speed, high-resolution OCT retina scanner • FD-OCT visualizes retinal tissue in a fraction of seconds • 65 times faster speed advancement over current technology 	

RTVue-100 is an ultra-high speed, high-resolution OCT retina scanner used for retina imaging and analysis. It is based on the next generation Fourier-Domain Optical Coherence technology just emerging from clinical research in the past 2 years. The ultra-high speed and high-resolution features enable the FD-OCT to visualize the retinal tissue with ultra-high clarity in a fraction of seconds.

In Fourier-Domain OCT, a charge-coupled device (CCD) camera acquires the information in an entire A-scan simultaneously. The A-scan acquisition rate is only limited by the CCD camera frame transfer rate and the computer calculation time to perform the Fourier transform of the CCD-acquired raw data into A-scan information. Due to the fast CCD camera frame transfer rate and Fourier transform algorithm, the FD-OCT can perform 26,000 A-scans per second.



OPTTX System

PRICE	N/A
COMPANY	Novadaq Technologies (Ontario, Canada)
PHONE	1-888-728-4368
WEB	www.novadaq.com
KEY FEATURES	
<ul style="list-style-type: none"> • Enables effective visualization of the feeder vessels through the procedure • Captures ultra-high speed image of 30 frames per second • Increases procedural convenience, enabling one device to perform two functions 	

Novadaq Technologies has developed a unique system for the treatment of wet age-related macular degeneration. The OPTHX system combines the function of two devices traditionally required to deliver conventional feeder vessel therapy: one to image the retina and one to photocoagulate vessels, into a single device. The patented OPTHX System enables real-time ICG fluorescent ultra high-speed imaging and visualization of feeder vessels throughout the procedure, which may result in more precise and effective feeder vessel closure and treatment of the disease, according to the company.

During the OPTHX System procedure, ICG is administered to provide real-time visualization. Once the feeder vessel is located, and while the ICG is circulating, the retinal specialist aims and photocoagulates the vessel with the laser. The technique, called *photocoagulation from the inside out*, enables treatment of the feeder vessel with an average of three to four short energy bursts focused directly on the target, which increases the chance of closure and reduces the potential for damaging the surrounding tissue, the company said. ■

