

From Eye to Insight

Leica
MICROSYSTEMS

Hand-held, contact-free Optical Coherence Tomography for pediatrics

ENVISU C2300 OCT

Take OCT to your patient



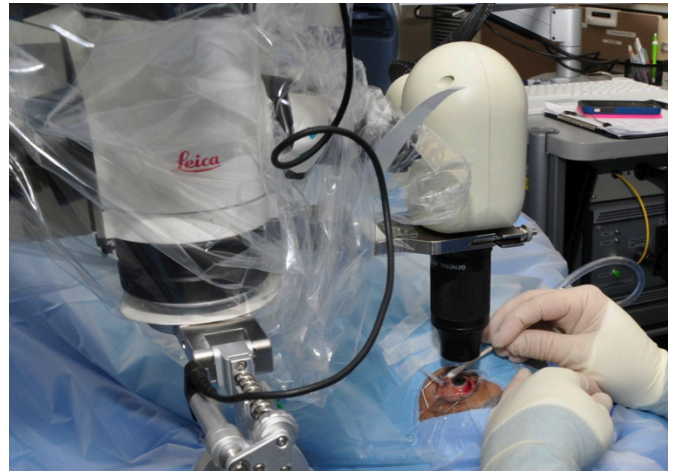
TAKE OCT TO YOUR PATIENT

Take Envisu OCT to your patient,
not the other way around.

The lightweight, hand-held OCT scan head and mobile cart enable usage in the ICU, operating room, or clinic. Your patients remain exactly where they need to be to receive optimal care.

In the OR

Easily mount the Envisu C2300 OCT on the M844 microscope for peri-operative OCT imaging. Sequentially image via the microscope handgrip or footswitch.



In the ICU or clinic

Capture OCT images from both supine and upright patients, even without anaesthesia. Gently examine premature infants in the NICU, an infant on the parent's lap in the clinic, or a nervous adult.

Flexible use for all

Not only is the compact and light-weight scan head easily adaptable to different environments, it is also suitable for all users. At only 1.6 kg it can be held steady in different positions without strain.



"During imaging in the NICU, there was adequate clearance for the (Envisu) OCT handpiece within the incubator; therefore, infants were not removed for imaging."

Invest Ophthalmol Vis Sci. 2010 May; 51(5): 2678–2685.doi:10.1167/iovs.09-4403



CONDUCT FAST AND GENTLE EXAMINATIONS

Comprehensive eye examinations on moving or nervous patients made simple!

Real-time, non-contact OCT imaging means you can get the accurate data you need to aid diagnosis, with minimal stress to your patient.

Easy on your patient

The Envisu C2300 OCT captures high-resolution images quickly without touching the patient's eye. Both child and parents benefit from a fast, minimally invasive examination.

The images you need, every time

Capture the precise, high-definition images you need, first time. Real-time imaging reduces the impact from patient movements.

- > Acquire images in 1-3 seconds
- > 32,000 scans per second

AID CRITICAL DECISIONS WITH IMPACTFUL IMAGES

Accurate diagnosis starts with having maximum information.

Envisu C2300 OCT captures high-resolution, and high-density images that reveal more detail of the tissue microstructures than the microscope alone. Verify and evaluate results with a large B-scan image, en face OCT fundus visualization, and measurement with manual caliper tools.

See all the detail you need

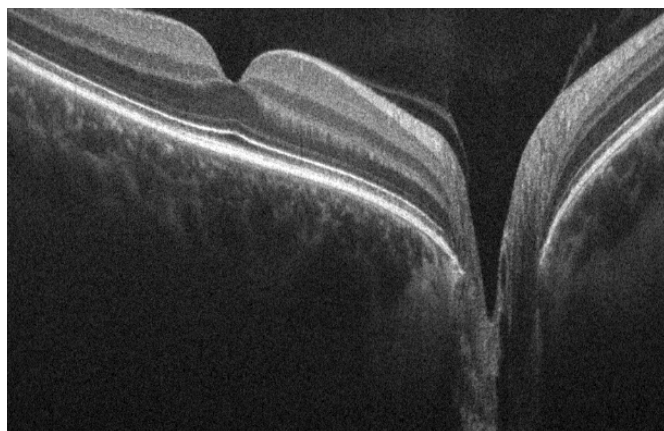
Bright real-time images for instant feedback

- > Optical axial resolution in tissue < 4 μm
- > Maximum imaging depth in tissue 2.5 mm
- > Lateral resolution for retina 11 μm and cornea 12 μm
- > Fully customizable high density data scans up to 1000 x 1000

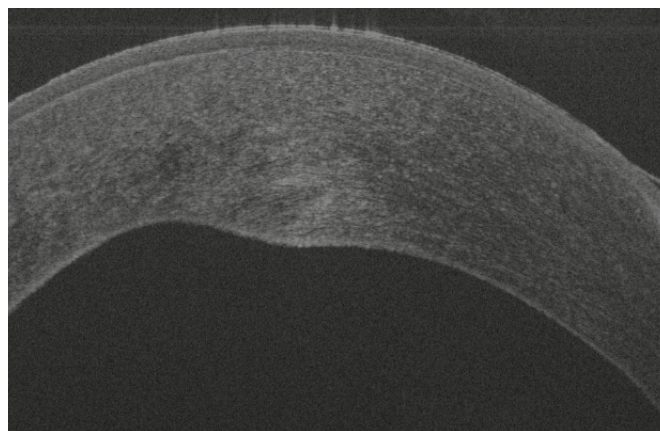
Front-to-back and side-to-side

Easily image from the cornea to the choroid and from the pole to the periphery with exchangeable lenses.

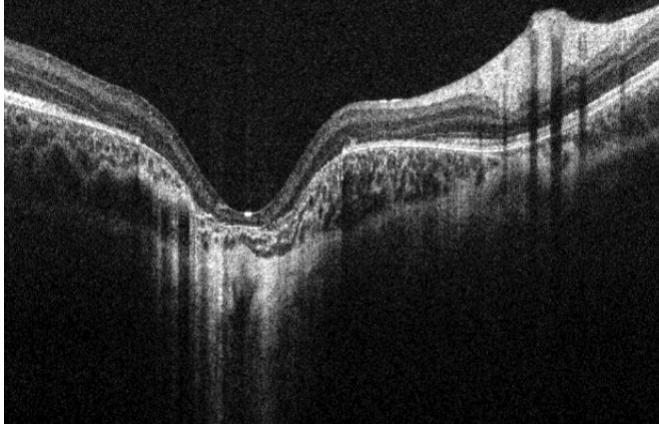
- > Retina lenses with 70 degree field of view and 13 mm working distance
- > Anterior imaging with 14 mm field of view and 20 mm working distance



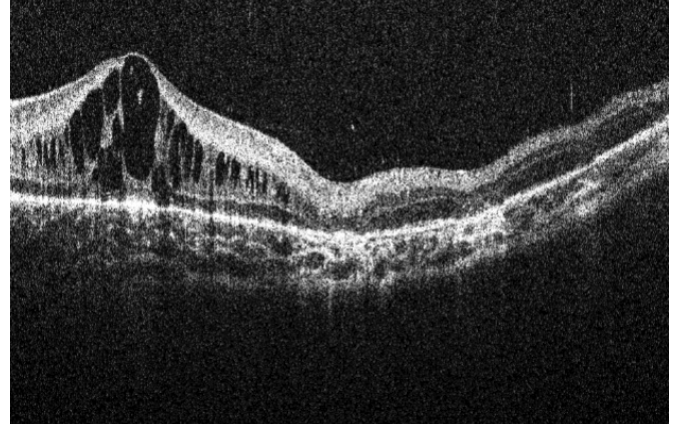
High resolution retina imaging



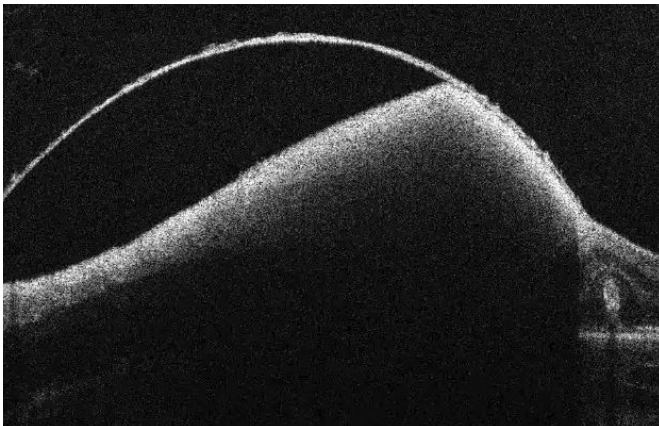
High resolution cornea imaging



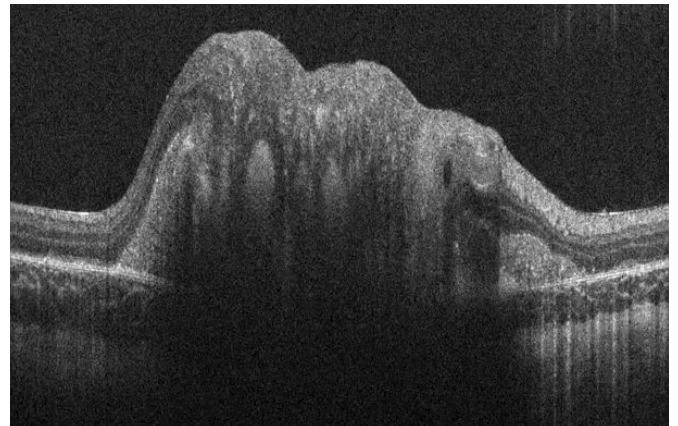
Macular coloboma - image supplied by A. Ely M.D.



ROP case



Non-accidental trauma - image supplied by M.E. Hartnett M.D. and
Glen Jenkins CRA, OCT-C



Retinoblastoma - image supplied by Lee M.D..

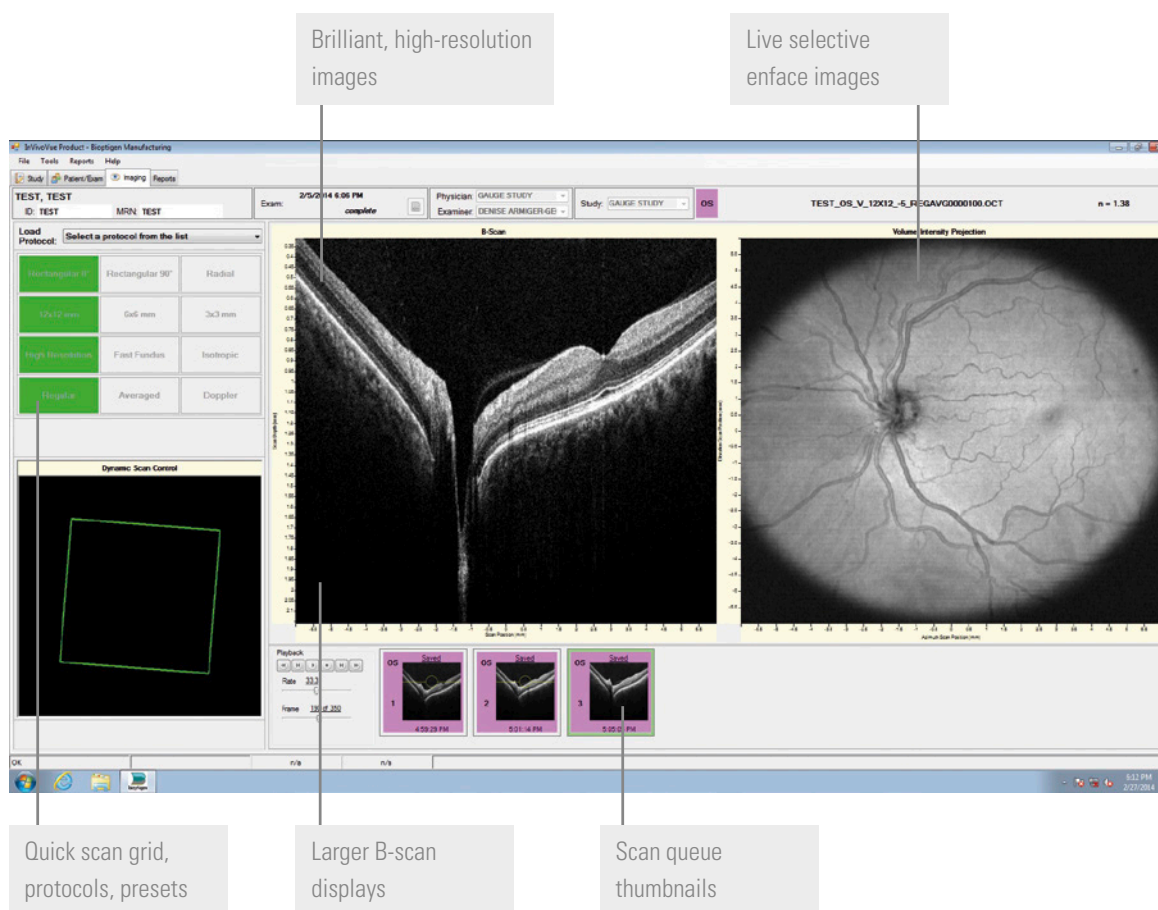
“Envisu hand-held OCT opens the door to diagnostic capabilities not before possible in the younger pediatric population.”

A. Ely M.D.

GET RELIABLE RESULTS WITH EASE

Reliably and efficiently obtain the results you need.

Intuitive software operation and comprehensive on-screen information supports you throughout the workflow from acquisition to analysis and reporting. The light-weight scan head makes for flexible usage wherever needed and the footswitch click-through further supports working efficiency.



Fast, reliable imaging

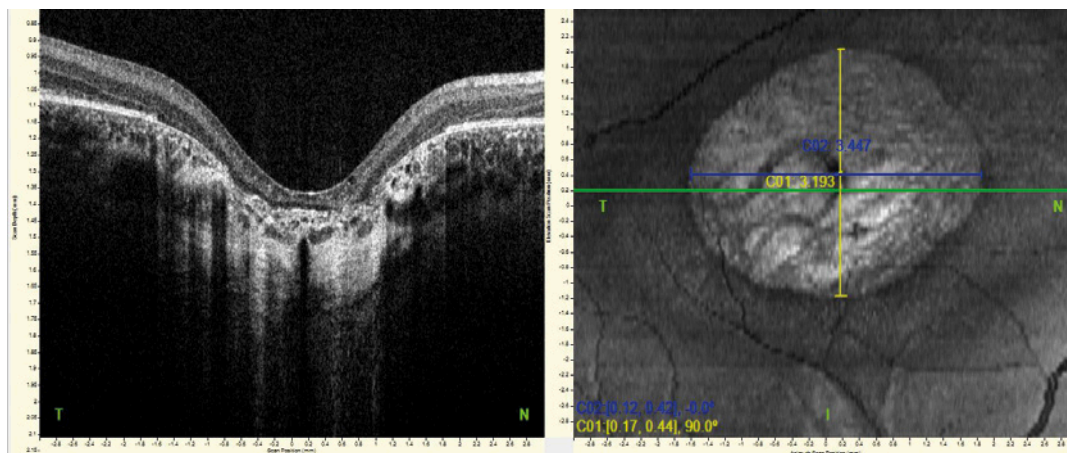
Use the intuitive InVivoVue 2.4 OCT Management Software to predefine your protocols, then simply click through using the footswitch. Workflow is smooth and results are exactly what you need, every time.

Your central control cockpit

Full information is shown in real-time on the screen. Verify results with a large B-scan image as well as en face OCT fundus image visualization.

Easy analysis and reporting

- > Manual caliper tools provide accurate measurements of ocular structure both during and post-examination
- > Apply up to 10 caliper measurements, save, and print to reports for post-procedure assessment



Macular coloboma with caliper tools - image supplied by A. Ely M.D.

SPECIFICATIONS AND OPTIONS

KEY OPTICAL PERFORMANCE

Light source	Superluminescent diode (SLD)
Optical axial resolution in tissue	< 4 μm
Imaging depth in tissue	2.5 mm
Axial image resolution	1024 pixels
Image acquisition speed	1-3 sec acquisition with 32000 scans per sec.
Max. optical power	750 μW
Imaging wavelength	860 nm

KEY FEATURES

Scan-Management software	InVivoVue 2.4
Scan-Management standard	On-screen procedural pre-set scans
Scan-Management options	Fully customizable
Scan types	Line, rectangular, annular, radial
Maximum image density	1000 x 1000 A-scans
Standard volume scanning	1000 x 100 x 10 / 480 x 480 x 4
Control	On-screen or via foot pedal
Blood flow visualization	Qualitative color Doppler OCT

PHYSICAL FEATURES

Workstation Operating System	64-bit, Windows 10
Mobile cart	Movable cart with 2 meter tether length
OCT scan-head dimensions	Scan head: 17 cm high x 8 cm wide x 23 cm long (including lens)
Scan head weight	1.6 kg
Cart footprint	95.3 cm high alone, 154.9 cm high with monitor, 78.7 cm wide, 55.9 cm deep

LENSES

	Posterior retina	Anterior 12 mm	Anterior 18 mm	Anterior 25 mm
Field of view	70 °	8 mm	14 mm	20 mm
Lateral resolution	11 μm	8 μm	12 μm	21 μm
Working distance	13 mm	15 mm	20 mm	17 mm

POPULAR PRODUCT CONFIGURATION

Envisu C2300 OCT	General retina lens, 18 mm anterior imaging lens
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OPTIONAL ACCESSORIES

ES-100 surgical mounting kit	Mount to common industry surgical microscopes*
AIM chin-rest assembly	Transforms the hand-held device into a desktop imager
Data station	Read and manage data off-line using InVivoVue 2.4 Reader software

*Contact your local Leica representative for microscope compatibility



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Envisu C2300 is a class IIa medical device



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Not all products or services are approved or offered in every market. Approved labeling and instructions may vary between countries.
Please contact your local Leica representative for details.

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