



Clearly Focused on You

eye care
associates, inc.

Optical Coherence Tomography

Optical Coherence Tomography is a non-invasive, non-contact, computer-assisted optical imaging instrument that is capable of producing cross-sectional images of the retina with rapid acquisition time, extremely high resolution and immediate analysis.

This technology has revolutionized the early detection of conditions through its ability to evaluate the nerve cells. Similar in principle to an ultrasound, the OCT derives its capabilities from an optical time-of-flight measurement, with the difference being it uses light waves instead of sound waves.

The OCT contains an interferometer that resolves retinal structures by measuring the echo delay time of light that is reflected and backscattered from different microstructural features in the retina.

The OCT can be used to monitor glaucoma by scanning the optic nerve and nerve fiber layer. The OCT is also very useful to diagnose and monitor many retinal conditions.

Obtaining an OCT image is quick and painless for the patient. All of the data and images are stored on the computer and a printed copy is provided to the physician. Acquiring a baseline image and then being able to repeat the test again at either a 6 month or yearly interval is extremely beneficial to monitor any progression of any conditions and in determining treatment options for the patient.

For more information, please contact our patient advisor by phone at 330-747-2733 or by email at info@eyecareassociates.com.

The intent of this handout is to educate users about eye care. Information found on www.eyecareassociates.com is not intended to replace medical advice. Questions about treatment information should be addressed by your physician.