TOMOGRAPHIC IMAGING	
Purpose:	Cross sectional imaging of ocular structures including the fundus
Signal Type:	Optical scattering from tissue
Signal Source:	Super Luminescent Diode (SLD) 830 nm
Optical Power:	<750 Microwatts at cornea.
Typical Axial Resolution:	Digital on-screen <6 micron.
Transverse Resolution:	20 micron (in tissue)
OCT Scan Patterns:	Line Scan (B-Scan), Raster B-Scan, 3D Retina Topography, 3D Optic Disk Topography and RNFL program
Scanning Rate Variable:	8, 16, 32 frames/second
Longitudinal and Coronal (Depth) Scan Range:	2.0mm
FUNDUS IMAGING	
Purpose:	Confocal SLO Fundus image for alignment, orientation and registration of the OCT image, for further observation
Field of View:	29 degrees
Viewing Method:	19" LCD Color Display Monitor
ELECTRICAL	
Imaging System only	
Single phase:	115/120V ~ systems: (+/-10%), 2.6A
	230/240V ~ systems: (+/-10%), 1.3A
Total Power requirements and Power consumption for: Imaging system, PC computer, LCD monitor and Motorized Table	
115/120V ~:	(+/-10%), 10.6A 1KVA
230/240V ~:	(+/-10%), 5.3A 1KVA
Frequency:	50/60Hz
Main fuses:	for 115/120V (10.0A. for 230/240 V (5.0A))
CONTROL UNIT	
CPU:	2.6GHz Quad core, 1GB DDR RAM
Monitor:	19" Color LCD Monitor
Control Input Devices:	Keyboard, Mouse, and Joystick
Storage:	500 GB Hard Disk
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE	

OPKO INSTRUMENTATION / OTI

A Division of OPKO Health, Inc.

4400 Biscayne Boulevard Miami, FL USA 33137
US Toll Free: 1 888 268 OPKO Tel: 305-575-4178
Email: info@opko.com Web: www.opko.com

OPKO INSTRUMENTATION / OTI

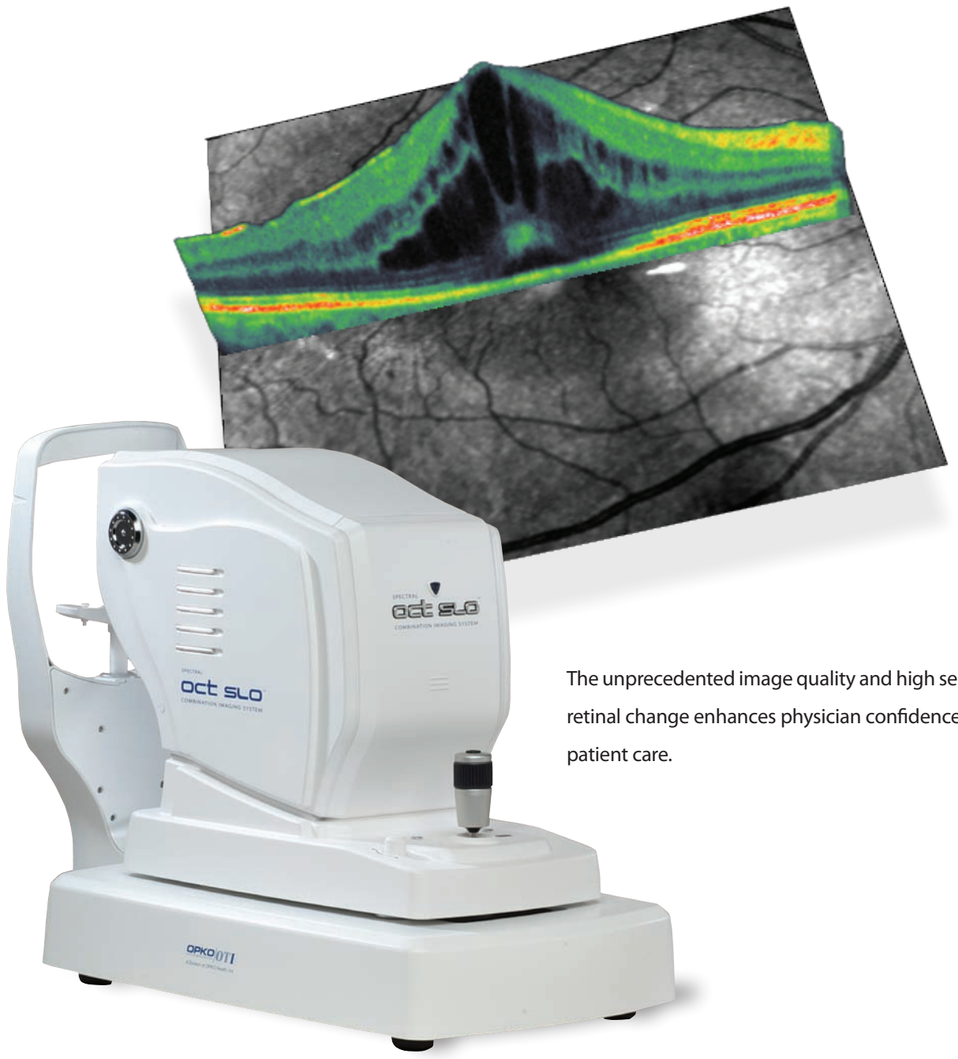
SPECTRAL

oct SLO

COMBINATION IMAGING SYSTEM

SPECTRAL
oct SLO
COMBINATION IMAGING SYSTEM

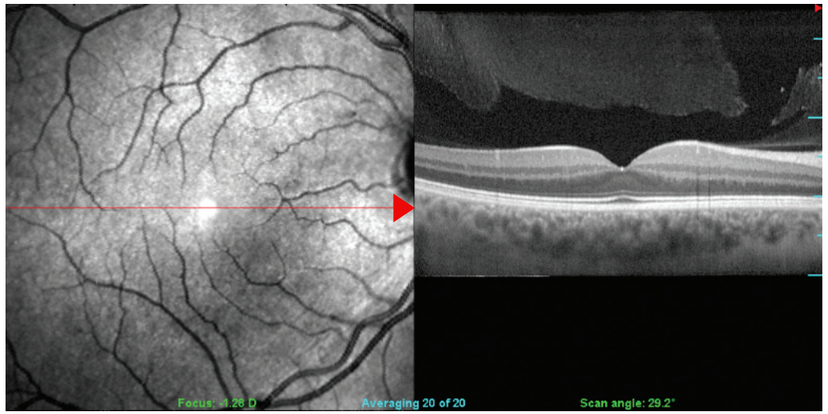
The Spectral OCT SLO is the product of more than a decade of innovation in the field of combination imaging. Featuring the highest quality of optics and a versatile user-friendly interface, the system offers the clinician a valuable tool for the detection and visualization of ocular pathologies.



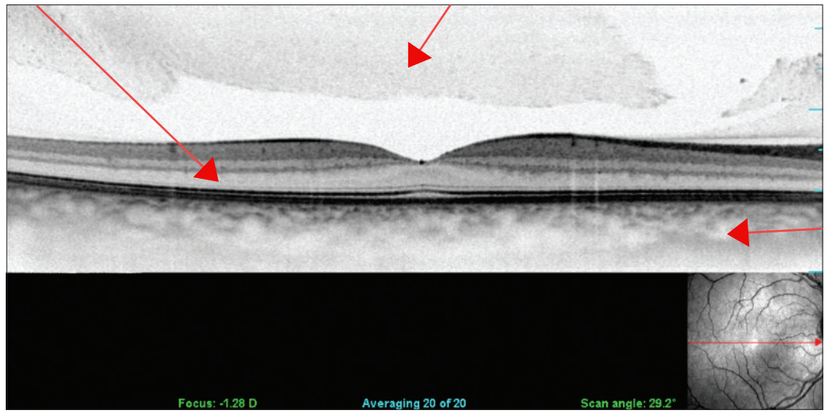
The unprecedented image quality and high sensitivity to retinal change enhances physician confidence for better patient care.

instantaneous localization

The live SLO displays the exact location and orientation of each OCT B-Scan. The real-time view of the fundus assists the operator in positioning an exam over the area of interest and obtaining the OCT scan in the desired location.



Normal Eye - SLO and OCT of Native Format



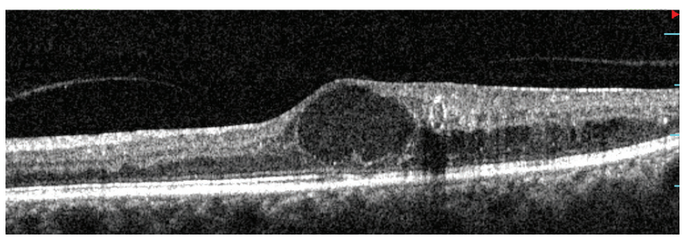
Normal eye - Inverted image showing high resolution vitreous, inner retina layer and choroid

- Simplifies scanning
- Strengthens operator confidence
- Increases patient throughput
- High repeatability

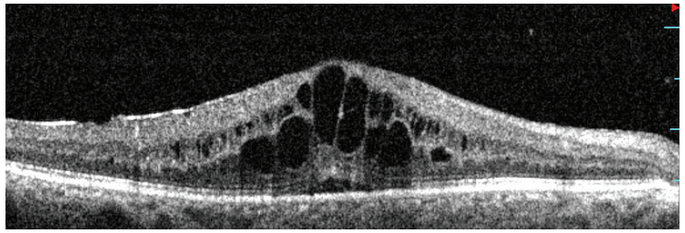
phenomenal image quality

Through the use of advanced image-processing algorithms, and from years of experience in diagnostic imaging, the OPKO Spectral OCT/SLO system produces ultra-high resolution images with inner retinal choroid and vitreous details.

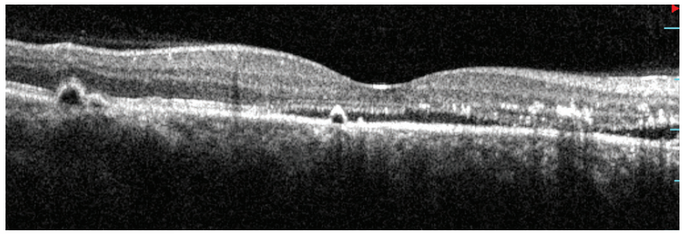
- Exquisite details
- Ultra-high resolution images
- Toggle between Native Format and Enhanced Imaging Mode



Cystoid Macula Edema - Native Format



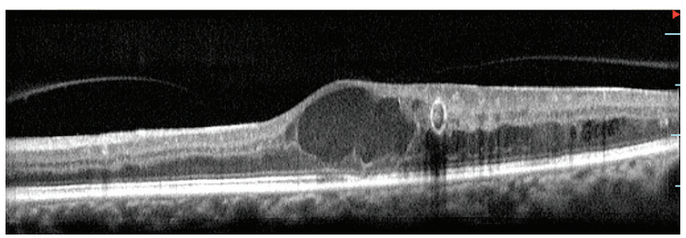
Cystoid Macula Edema - Native Format



Central Serous Retinopathy - Native Format

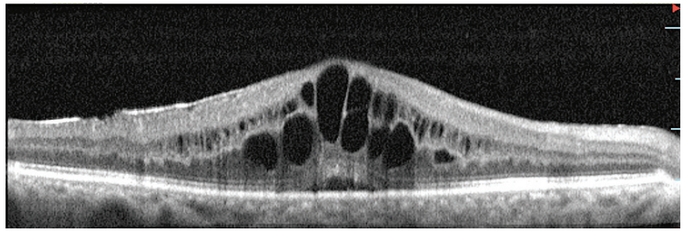
enhanced imaging mode

The Spectral OCT SLO introduces Enhanced Imaging Mode, a clear viewing option which heightens layer detail while reducing noise in the OCT scan. Users can toggle between Native Format and Enhanced Imaging Mode.

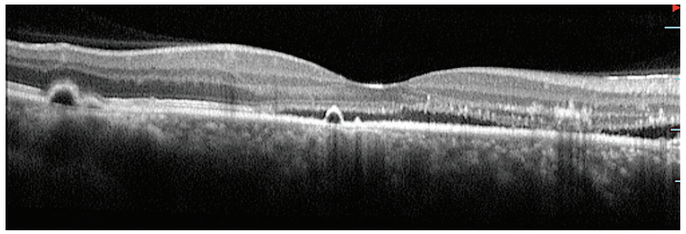


Cystoid Macula Edema - Enhanced Imaging Mode

- Enhanced clarification of details
- Inner retinal layer definition
- Finer vitreo-retinal interface distinction



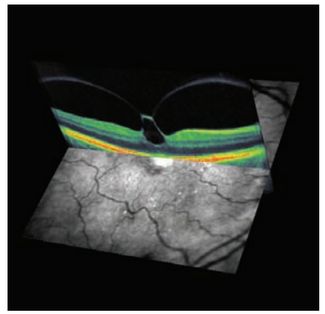
Cystoid Macula Edema - Enhanced Imaging Mode



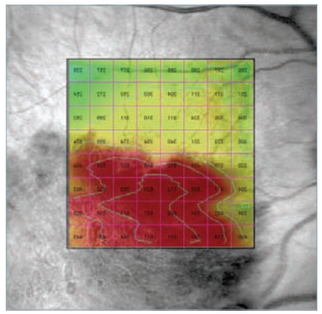
Central Serous Retinopathy - Enhanced Imaging Mode

comprehensive diagnostic capabilities

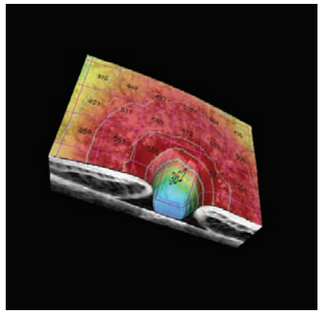
The Spectral OCT SLO provides numerical results which allows improved monitoring of disease progression or regression. Even the smallest changes can be recorded for more informed decision-making and improved outcomes.



For every OCT Scan there is a corresponding SLO image



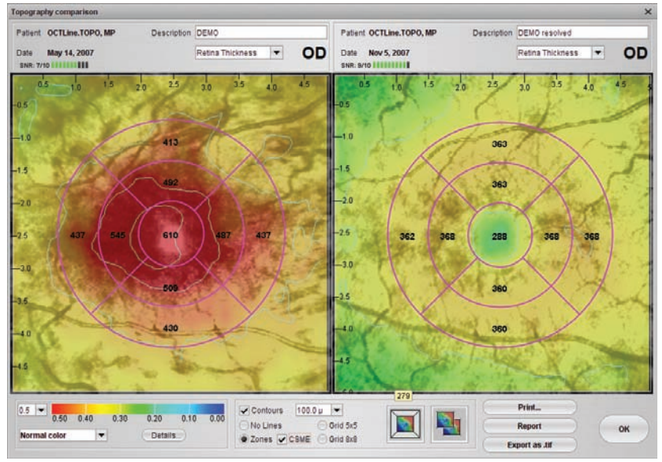
The topographical map is placed over the SLO retinal image for exact positioning. Serial topographies are aligned in an instant.



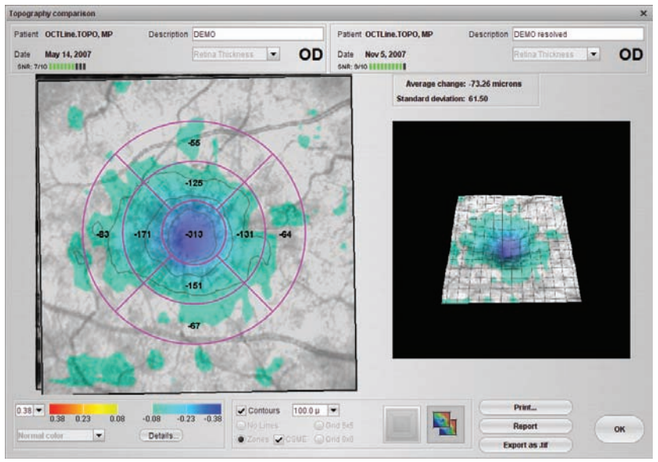
Detailed topographical area and volume maps are created

reliable patient monitoring

The Spectral OCT SLO's advanced diagnostic tests measure and record the effects of today's new and emerging therapies.

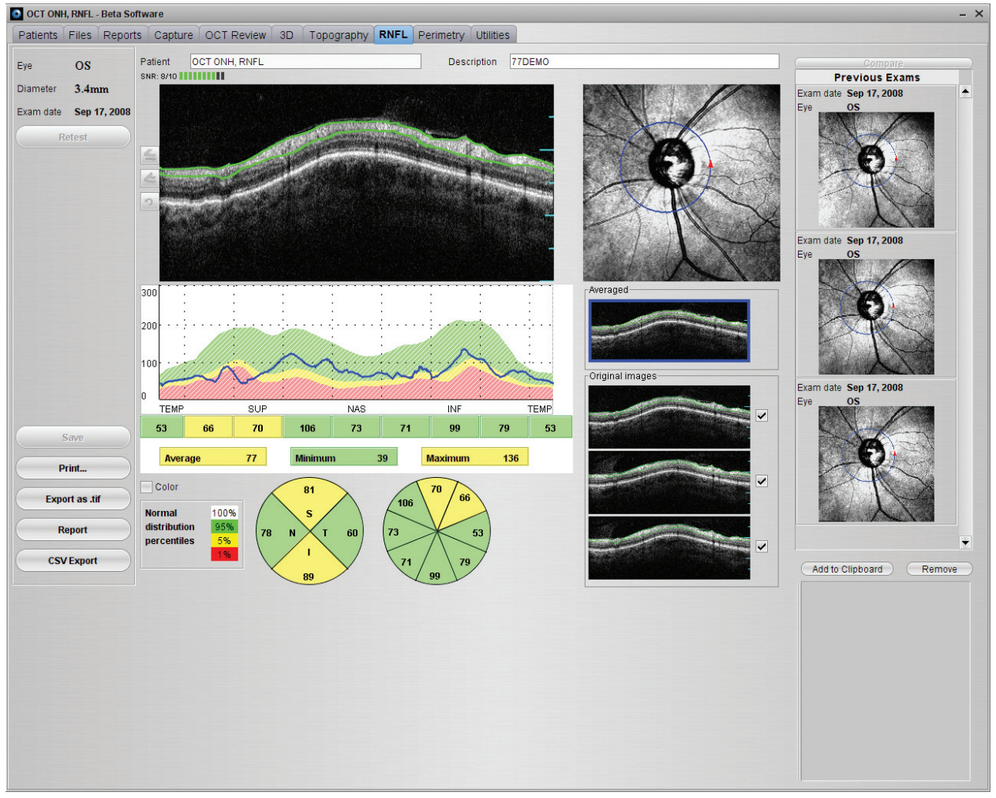


Inter-visit scans can be automatically aligned and subtracted so that only "true" change between visits is recorded. (Pre and Post CME treatment)



The subtraction is completed leaving behind both a 2D and a 3D representation of change.

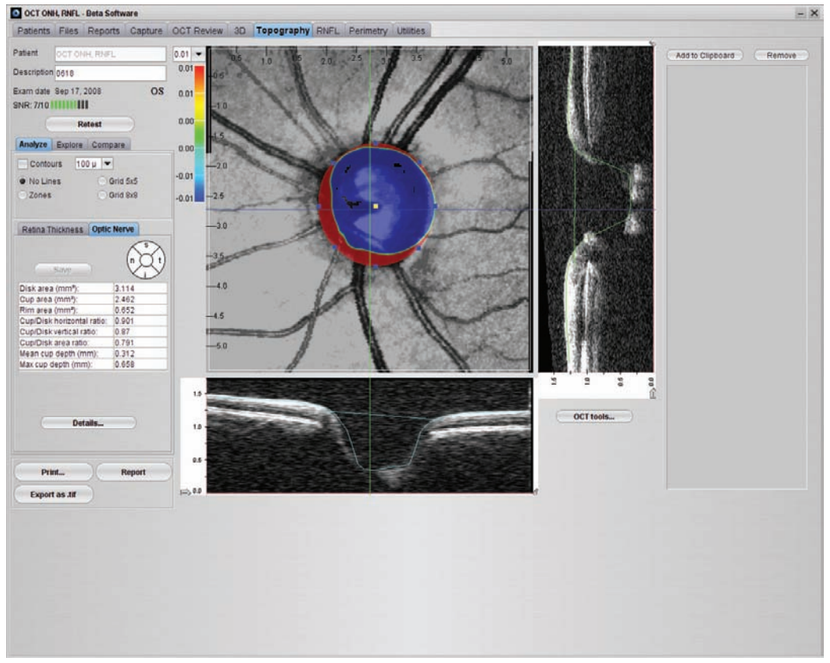
RNFL thickness analysis



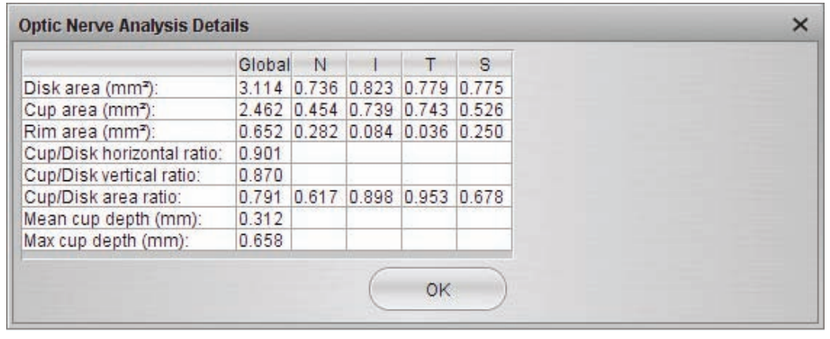
RNFL thickness Map Glaucoma

The SLO tracks the location of the circular OCT around the optic disc and ensures that the OCT scan is accurately positioned. The SLO ensures that the scan is obtained from the same location during follow-up exams for measurements of change.

optic nerve head analysis



The 3D Topographic Optic Nerve Head Analysis is taken from a three-dimensional stack of sequential OCT images. The SLO image verifies the position of the 3D OCT data to ensure repeatability and accuracy of location.



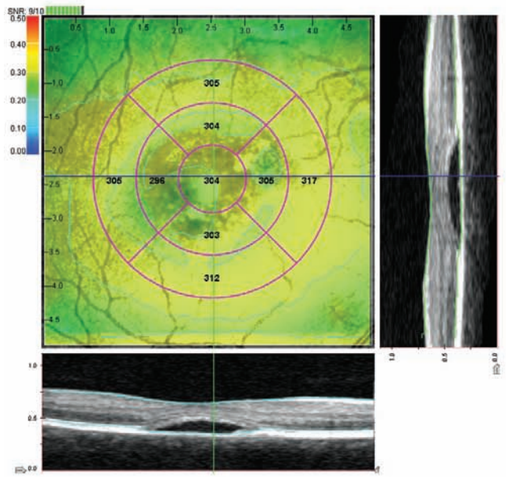
	Global	N	I	T	S
Disk area (mm²):	3.114	0.736	0.823	0.779	0.775
Cup area (mm²):	2.462	0.454	0.739	0.743	0.526
Rim area (mm²):	0.652	0.282	0.084	0.036	0.250
Cup/Disk horizontal ratio:	0.901				
Cup/Disk vertical ratio:	0.870				
Cup/Disk area ratio:	0.791	0.617	0.898	0.953	0.678
Mean cup depth (mm):	0.312				
Max cup depth (mm):	0.658				

Optic Nerve Head detailed analysis including global data and quadrant data

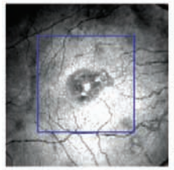
OCT SLO Report

Patient Name: OCTLine.TOPO, MP.Color Fundus
Patient ID: MPOCT-AAO08DEMO106
Description: DEMO **OD**

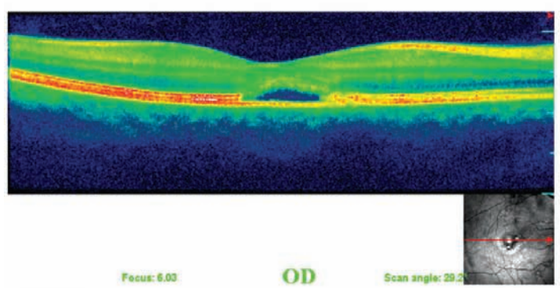
D.O.B.: Aug 12, 1933
Date: Oct 11, 2007



Full Field Image



	Avg thick µ	Volume µL
Center	298	
Center circle	304	0.23
Superior inner	304	0.23
Temporal inner	296	0.23
Inferior inner	303	0.23
Nasal inner	305	0.24
Superior outer	305	0.42
Temporal outer	305	0.42
Inferior outer	312	0.43
Nasal outer	317	0.44
Totals	307	2.87



Comments:

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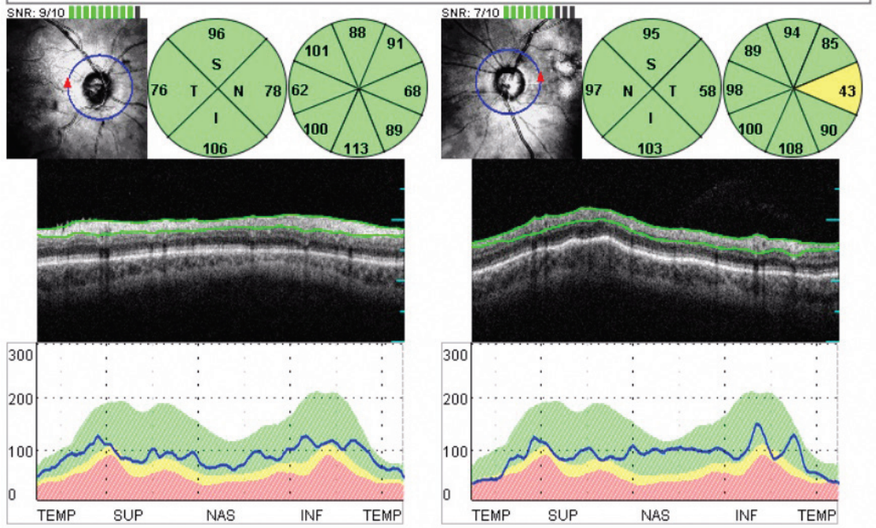
OCT SLO Report *RNFL THICKNESS ANALYSIS*

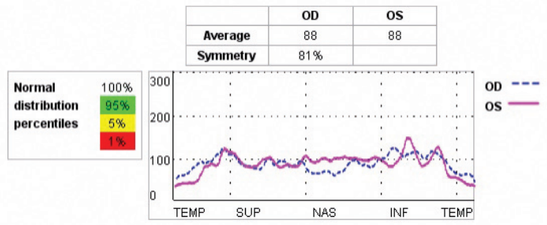
Patient Name: OCTRNFL, OU
Patient ID: OCT-AAO08DEMO209

D.O.B.: Jan 24, 1930

Date	Dec 4, 2007	Dec 4, 2007
Description	2	2
Eye	**OD**	**OS**



	OD	OS
Average	88	88
Symmetry	81%	



Comments:
Comparison report of RNFL Thickness of the left and right eye, taken on the same day. RNFL Thickness from the same eye taken on different dates can also be compared.

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