### 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: (+/-10%), 2.6A
- 230/240V: (+/-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 230/240V: 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**
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.

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.

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

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

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

phenomenal image quality

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

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.

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.

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

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

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.

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**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.

Optic Nerve Head detailed analysis including global data and quadrant data.
OCT SLO Report  
RNFL THICKNESS ANALYSIS

Patient Name: OCTRNFL, OU  
Patient ID: OCT-AA008DEMO209

D.O.B.: Jan 24, 1930  
Date: Dec 4, 2007  
Dec 4, 2007

Description 2  
Eye OD OS

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.