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## **CARL ZEISS CIRRUS HD-OCT 4000 Ophthalmic Tomograph (Reconditioned)**

Used, perfect technical condition,

German production,

Power supply: 230 V,

Frequency: 50/60 Hz,

CARL ZEISS Cirrus HD-OCT 4000

enables examination of the posterior and anterior part of the eye at an extremely fine spatial scale without surgical biopsy or even eye contact. Cirrus HD-OCT builds on and enhances the retinal imaging technology first introduced with ZEISS Stratus OCT. HD-OCT stands for high-resolution optical coherence tomography,

Using advanced optical coherence tomography spectral imaging technology, Cirrus HD-OCT collects OCT data approximately 70 times faster (27,000 vs. 400 A-scans per second) and better resolution (5  $\mu\text{m}$  vs.  $\sim 10 \mu\text{m}$  axial resolution in tissue) compared to first-generation OCT technology. Cirrus acquires entire cubes of OCT image data, composed of hundreds of line scans, in about the same time it takes Stratus to acquire a six-line scan. You can view these data cubes in three planes or through three dimensions, giving you access to a large amount of retinal imaging data in a single scan,

Features:

RNFL thickness analysis,

3D volume rendering,

Automatic focusing,

Segmentation layer editor,

Macular normative data,

Analysis of macular changes,

Macular reports,

Progress analysis,

Technical data:

HD-OCT imaging:

Methodology: spectral domain OCT,

Optical source: superluminescent diode (SLD),

Optical power 840 nm: less 725  $\mu\text{W}$  at the cornea,

Scanning speed: 27,000 A-scans per second,

A-scan depth: 2.0 mm (in tissue), 1024 points,

Axial resolution: 5  $\mu\text{m}$  (in tissue),

Transverse resolution: 15  $\mu\text{m}$  (in tissue),

Ocular fundus imaging:

Methodology: line-scanning ophthalmoscope,

Ocular fundus image: during alignment and during OCT scanning,

Optical source: superluminescent diode (SLD),

750 nm optical power: <1.5 mW in the cornea,

Field of view: 36° (W) x 30° (H),

Frame rate: more 20 Hz,

Transverse resolution: 25  $\mu\text{m}$  (in tissue),

Iris imaging method:

CCD camera,

Resolution: 1280 x 1024,

Study of the thickness of the anterior segment of the eye,

Internal focus: -20D to + 20D (diopters),

Integrated 15" (inches) color display,

Built-in DVD-ROM RW drive (recorder),

Built-in hard drive with internal memory for 80000 scans,

The device has 6 USB ports,

Device software in German language,

Included:

CIRRUS HD-OCT 4000,

EPSON B-300 color inkjet printer,

Wired keyboard and mouse,

Original Carl Zeiss electric height adjustment table:

Height adjustment in the range: 64.5 - 93 cm,

Full documentation with instruction manual in German,

User manual in Polish (PDF),

Weight of the device itself: 38 kg,

Dimensions of the device: 65 L x 44 W x 53 H cm,

Overall dimensions: 106 x 70 x 119.5/148 cm,

Has a current Technical Passport issued,

Warranty:

6 months for domestic market - Poland,

1 month for the international market,

Financing option (Poland only): Installments, Leasing, Loan,

