# Stratus OCT<sup>™</sup> with Software Version 5.0

# **Real Answers in Real Time**





# Stratus OCT<sup>™</sup> — The standard of care system for comprehensive retina and glaucoma management.





Inner Limiting Membrane Nerve Fiber Layer Ganglion Cell Layer Inner Plexiform Layer Outer Plexiform Layer Junction of Inner and Outer Photoreceptor Segments Retinal Pigment Epithelium Choriocapillaris Visualize virtual histology. High resolution cross-sectional imaging for the comprehensive management of glaucoma and retinal disease.

Assess RNFL change. GPA Advanced Serial Analysis reports statistically significant change and rate of change in RNFL thickness.

Expand your clinical confidence. Most extensive library of clinical studies in the industry and over 8000 systems installed worldwide.

**Offer comprehensive care.** Valuable for pre- and post-op cataract patients to identify and illustrate cause of poor vision.

Increase practice productivity. Operate the full analysis capabilities from the lane, your office or a remote location.



Junction of Inner and Outer Photoreceptor Segments

Choroid Choriocapillaris

Epithelium/

In the Stratus OCT image display, retinal layers with the highest reflectivity appear red. In a healthy retina, these include the nerve fiber layer, retinal pigment epithelium and choriocapillaris. The layers that exhibit minimal reflectivity appear blue or black, such as the photoreceptor layer, choroid, vitreous fluid or blood.

# Obtain real-time non-invasive histology of live tissue

Stratus OCT reveals the retinal layers in high-resolution, cross-sectional views, offering insight for diagnosis, therapy and ongoing management of retinal disorders.



Cystoid Macular Edema



Age-related Macular Degeneration with Overlying Cystoid Macular Edema



**Diabetic Macular Edema** 



Branch Retinal Vein Occlusion



Central Serous Chorioretinopathy



Macular Hole with Operculum



Epiretinal Membrane with Lamellar Hole and Cystoid Macular Edema



**RNFL** Loss

# Visualize and analyze retinal disorders



## **Diabetic Retinopathy**

- Stratus OCT reveals and measures diffuse macular thickening and loss of foveal contour
- Intraretinal cysts and fluid accumulation are identifiable as areas of low reflectivity in the cross-sectional scan
- Post-treatment resolution of retinal thickening can be quantified and monitored





### **Epiretinal Membrane**

- Stratus OCT scan shows the epiretinal membrane as a highly reflective band on the inner retinal surface
- Separation of the membrane from the retina is visible in areas
- Underlying retina is thickened, with loss of normal foveal contour



## Age-related Macular Degeneration

- Disruption of RPE, caused by neovascularization and drusen, can be visualized
- Pockets of interretinal fluid are visible as areas of reduced reflectivity
- Structural changes resulting from therapy can be quantified and monitored

# Detect glaucoma damage at an earlier stage



### Retinal Nerve Fiber Layer Analysis

- Analysis of RNFL aids in identification of early glaucomatous loss
- Circular scans of 3.4 mm diameter around optic nerve head provide measurement of RNFL in the peripapillary region
- RNFL thickness measurement is graphed in a TSNIT orientation and compared to age-matched normative data



### **Optic Nerve Head Analysis**

- Radial line scans through optic disc provide cross-sectional information on cupping and neuroretinal rim area
- Disc margins are objectively identified using signal from end of RPE
- Key parameters include cup-to-disc ratio and horizontal integrated rim volume<sup>1</sup>

### Macular Thickness Analysis

- Thinning of the macula may reflect glaucomatous loss
- Structural analysis of retinal sublayers reveals macular complications
- Cross-sectional view provides visualization and measurement of retinal layers

# Stratus OCT Printout

## **Retinal Thickness Report**

Scan Protocol: Fast Macular Thickness, Macular Thickness, Line, Cross Hair Used for: Assessment of overall macular region or specific areas of interest



## Retinal Thickness Tabular Output

Scan Protocol: Radial Lines, Fast Macular Thickness, Macular Thickness Used for: Imaging and measurement of macular pathology



If any of the 6 radial line scans has been deselected, analysis might be incomplete. Normative data is displayed in stoplight color code, described in detail inside back page. For thickness maps.

# Stratus OCT Printout

## Optic Nerve Head Analysis Report

Scan Protocol: Optic Disc, Fast Optic Disc Used for: Evaluation of the optic disc

#### **Patient Information**

across the cup to the longest

vertical line across the disc.

displayed above.



with water.

Scan Information

## **RNFL** Thickness Average Analysis

#### Scan Protocol: RNFL 3.4 mm, Fast RNFL 3.4 mm

Used for: Retinal nerve fiber layer thickness assessment and comparison to normative database



Normative data is displayed in	
stoplight color code, described	
in detail on inside back cover.	P

	Companson	Average Ratios	weasurement	Average values
	Imax/Smax Thickest points in inferior and superior quadrants	0.80 - 1.25	Min-Max Difference between minimum and maximum measurements	96 – 154 µm
	Smax/Imax Thickest points in superior and inferior quadrants	0.77 – 1.25	Smax Thickest measurement in superior quadrant	124 – 189 μm
	Smax/Tavg Thickest point in superior guadrant to average in temporal	1.70 - 3.06	Imax Thickest measurement in inferior quadrant	125 — 194 μm
	Imax/Tavg Thickest point in inferior quadrant to average in temporal Smax/Navg Thickest point in superior quadrant to average in nasal	1.69 - 3.12 1.37 - 2.93	Savg Average measurement in superior quadrant	97 – 152 µm
			lavg Average thickness in inferior guadrant	98 – 156 µm
			Average Thickness	82 — 118 µm

Normal distribution, RNFL normative data, Carl Zeiss Meditec.

# Stratus OCT Printout

## GPA<sup>™</sup> Advanced Serial Analysis

Scan Protocol: Fast RNFL Thickness (3.4), RNFL Thickness (2.27 x disc)

Used for: Statistical analysis of RNFL thickness change over time. Can be applied to up to 8 OD and/or 8 OS scan groups



# Stratus OCT Normative Data

## Stoplight Color Scheme



#### **RNFL** Normative Distribution

Of the normal population:



#### Macula Normative Data Display



## Macula Normative Distribution

Of the normal population:



At Carl Zeiss Meditec, we are committed to expanding clinical potential with innovative, precise and clinically advanced instruments that contribute to the enhancement of vision worldwide. And, through lifetime customer care and ongoing technology upgrades, we are also dedicated to ensuring your success now and throughout the future. For more information on the Stratus OCT system or to order, contact your Carl Zeiss Meditec representative today, or visit our website at www.meditec.zeiss.com/stratus.

 Wollstein G, Ishikawa H, Wang J, Beaton SA, Schuman JS. Comparison of three optical coherence tomography scanning areas for detection of glaucomatous damage. *Am J Ophthalmol.* 2005;139(1):39-43.
 Schuman JS, Wollstein G, Farra T, et al.

 Schuman JS, Wollstein G, Farra I, et al. Comparison of optic nerve head measurements obtained by optical coherence tomography and confocal scanning laser ophthalmoscopy. *Am J Ophthalmol.* 2003;135(4):504-512.

Pentium is a registered trademark of Intel Corp. Windows is a registered trademark of Microsoft Corp.

## **Technical Specifications**

Purpose         Cross-sectional imaging of retina           Signal type         Optical scattering from tissue           Signal source         Superluminescent diode, 820 nm           Optical power         ≤750 microwatts at cornea           Longitudinal/Axial resolution         ≤10 µm in tissue           Transverse sample size         20 µm in tissue           Scanners         Galvanometric mirror           Scan patterns         Line, circle, concentric rings, radial lines           Scan pixels         Adjustable from (1024 axial x 128 transverse) to (1024 axial x 768 transverse)           Longitudinal (depth) range         2 mm in tissue           Scan rate         400 A scan/sec           Fundus Imaging         Purpose           Fundus Imaging         Eucloimage           Purpose         Fundus alignment, documentation           Signal type         CCD image           Field of view         26° x 20.5°           Viewing method         Flat panel display           Illumination         Near IR/red-free           Internal fixation         32 x 16 LED dot matrix           External fixation         Silt lamp type adjustable blinking LED           Minimum pupil diameter         3.2 mm           Electrical         100 V approx. (±10%), 50/60 Hz, 6.0 A </th <th>Tomographic Imaging</th> <th></th>	Tomographic Imaging			
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Signal source       Superluminescent diode, 820 nm         Optical power       ≤750 microwatts at cornea         Longitudinal/Axial resolution       ≤10 µm in tissue         Transverse sample size       20 µm in tissue         Scanners       Galvanometric mirror         Scan patterns       Line, circle, concentric rings, radial lines         Scan pixels       Adjustable from (1024 axial x 128 transverse) to (1024 axial x 768 transverse)         Longitudinal (depth) range       2 mm in tissue         Scan rate       400 A scan/sec         Fundus Imaging       Purpose         Field of view       26° x 20.5°         Viewing method       Flat panel display         Illumination       Near IR/red-free         Internal fixation       32 x 16 LED dot matrix         External fixation       S2 x 10 LED dot matrix         Electrical       100 V approx. (±10%), 50/60 Hz, 6.0 A         Power consumption       100 V approx. (±10%), 50/60 Hz, 6.0 A         30 V approx. (±10%), 50/60 Hz, 3.0 A       700 VA         Footprint       Patient module       48 inches x 34 inches, 120 cm x 85 cm         User Features       2.4 GHz Pentium® IV       0perating system         Windows® 2000       Memory       512 MB         Standards and Approvals       <	Signal type	Optical scattering from tissue		
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Transverse sample size20 μm in tissueScannersGalvanometric mirrorScan patternsLine, circle, concentric rings, radial linesScan pixelsAdjustable from (1024 axial x 128 transverse) to (1024 axial x 768 transverse)Longitudinal (depth) range2 mm in tissueScan rate400 A scan/secFundus ImagingPurposePurposeFundus alignment, documentationSignal typeCCD imageField of view26° x 20.5°Viewing methodFlat panel displayIlluminationNear IR/red-freeInternal fixation32 x 16 LED dot matrixExternal fixationSlit lamp type adjustable blinking LEDMinimum pupil diameter3.2 mmElectrical100 V approx. (±10%), 50/60 Hz, 6.0 A 115 V approx. (±10%), 50/60 Hz, 3.0 A 700 VAPower consumption100 V approx. (±10%), 50/60 Hz, 3.0 A 	Longitudinal/Axial resolution	≤10 µm in tissue		
Scanners       Galvanometric mirror         Scan patterns       Line, circle, concentric rings, radial lines         Scan pixels       Adjustable from (1024 axial x 128 transverse) to (1024 axial x 768 transverse)         Longitudinal (depth) range       2 mm in tissue         Scan rate       400 A scan/sec         Fundus Imaging	Transverse sample size	20 μm in tissue		
Scan patterns       Line, circle, concentric rings, radial lines         Scan pixels       Adjustable from (1024 axial x 128 transverse) to (1024 axial x 768 transverse)         Longitudinal (depth) range       2 mm in tissue         Scan rate       400 A scan/sec         Fundus Imaging       Purpose         Purpose       Fundus alignment, documentation         Signal type       CCD image         Field of view       26° x 20.5°         Viewing method       Flat panel display         Illumination       Near IR/red-free         Internal fixation       32 x 16 LED dot matrix         External fixation       S1t lamp type adjustable blinking LED         Minimum pupil diameter       3.2 mm         Electrical       Power consumption         Potypose.       (±10%), 50/60 Hz, 6.0 A         20 V approx.       (±10%), 50/60 Hz, 3.0 A         700 VA       Potentint         Processor       2.4 GHz Pentium® IV         Operating system       Windows® 2000         Memory       512 MB         Standards and Approvals       UL 2601-1         UL 2601-1       CKA 22 No. 601.1	Scanners	Galvanometric mirror		
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Scan rate       400 A scan/sec         Fundus Imaging       Purpose         Purpose       Fundus alignment, documentation         Signal type       CCD image         Field of view       26° x 20.5°         Viewing method       Flat panel display         Illumination       Near IR/red-free         Internal fixation       32 x 16 LED dot matrix         External fixation       Slit lamp type adjustable blinking LED         Minimum pupil diameter       3.2 mm         Electrical       Power consumption         100 V approx. (±10%), 50/60 Hz, 6.0 A       115 V approx. (±10%), 50/60 Hz, 6.0 A         230 V approx. (±10%), 50/60 Hz, 3.0 A       700 VA         Footprint       Patient module       48 inches x 34 inches, 120 cm x 85 cm         User Features       Processor       2.4 GHz Pentium® IV         Operating system       Windows® 2000         Memory       512 MB         Standards and Approvals       UL 2601-1         UL 2601-1       CK 22 2 No. 601 1	Longitudinal (depth) range	2 mm in tissue		
Fundus Imaging         Purpose       Fundus alignment, documentation         Signal type       CCD image         Field of view       26° x 20.5°         Viewing method       Flat panel display         Illumination       Near IR/red-free         Internal fixation       32 x 16 LED dot matrix         External fixation       Slit lamp type adjustable blinking LED         Minimum pupil diameter       3.2 mm         Electrical       Power consumption         100 V approx. (±10%), 50/60 Hz, 6.0 A       115 V approx. (±10%), 50/60 Hz, 6.0 A         230 V approx. (±10%), 50/60 Hz, 3.0 A       230 V approx. (±10%), 50/60 Hz, 3.0 A         Poteprint       Patient module       48 inches x 34 inches, 120 cm x 85 cm         User Features       Processor       2.4 GHz Pentium® IV         Operating system       Windows® 2000       Memory         Standards and Approvals       UL 2601-1       CSA 22 2 No. 6011	Scan rate	400 A scan/sec		
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Internal fixation       32 x 16 LED dot matrix         External fixation       Slit lamp type adjustable blinking LED         Minimum pupil diameter       3.2 mm         Electrical       100 V approx. (±10%), 50/60 Hz, 6.0 A         Power consumption       100 V approx. (±10%), 60 Hz, 6.0 A         230 V approx. (±10%), 50/60 Hz, 3.0 A       230 V approx. (±10%), 50/60 Hz, 3.0 A         Potient module       48 inches x 34 inches, 120 cm x 85 cm         User Features       Processor         Processor       2.4 GHz Pentium® IV         Operating system       Windows® 2000         Memory       512 MB         Standards and Approvals       UL 2601-1         US 202 2 No. 601 1       100 V	Illumination	Near IR/red-free		
External fixation       Slit lamp type adjustable blinking LED         Minimum pupil diameter       3.2 mm         Electrical       100 V approx. (±10%), 50/60 Hz, 6.0 A         Power consumption       100 V approx. (±10%), 60 Hz, 6.0 A         230 V approx. (±10%), 50/60 Hz, 3.0 A       230 V approx. (±10%), 50/60 Hz, 3.0 A         Potient module       48 inches x 34 inches, 120 cm x 85 cm         User Features       Processor         Processor       2.4 GHz Pentium® IV         Operating system       Windows® 2000         Memory       512 MB         Standards and Approvals       UL 2601-1         US 20 2 No. 601 1       0.0 011	Internal fixation	32 x 16 LED dot matrix		
Minimum pupil diameter         3.2 mm           Electrical	External fixation	Slit lamp type adjustable blinking LED		
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Power consumption         100 V approx. (±10%), 50/60 Hz, 6.0 A           115 V approx. (±10%), 60 Hz, 6.0 A         230 V approx. (±10%), 50/60 Hz, 3.0 A           Pootprint	Electrical			
115 V approx. (±10%), 60 Hz, 6.0 A         230 V approx. (±10%), 50/60 Hz, 3.0 A         700 VA         Footprint         Patient module       48 inches x 34 inches, 120 cm x 85 cm         User Features         Processor       2.4 GHz Pentium® IV         Operating system       Windows® 2000         Memory       512 MB         Standards and Approvals       UL 2601-1         US 202 2 No. 601 1       CSA 222 2 No. 601 1	Power consumption	100 V approx. (±10%), 50/60 Hz, 6.0 A		
230 V approx. (±10%), 50/60 H2, 3.0 A         700 VA         Potient module         48 inches x 34 inches, 120 cm x 85 cm         User Features         Processor         2.4 GHz Pentium® IV         Operating system         Windows® 2000         Memory         512 MB         Standards and Approvals         UL 2601-1         CSA 22.2 No. 601.1		115 V approx. (±10%), 60 Hz, 6.0 A		
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Operating system     Windows® 2000       Memory     512 MB       Standards and Approvals       UL 2601-1       CSA 22.2 No. 601.1	Processor	2.4 GHz Pentium® IV		
Memory         512 MB           Standards and Approvals         UL 2601-1           CSA 22.2 No. 601.1	Operating system	Windows <sup>®</sup> 2000		
Standards and Approvals           UL 2601-1           CSA 22.2 No. 601.1	Memory	512 MB		
UL 2601-1 CSA 22 2 No. 601 1	Standards and Approvals			
CSA 22.2 No. 601.1	UL 2601-1			
	CSA 22.2 No. 601.1			
MDD	MDD			

Note: All technical specifications are subject to change without notice.

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