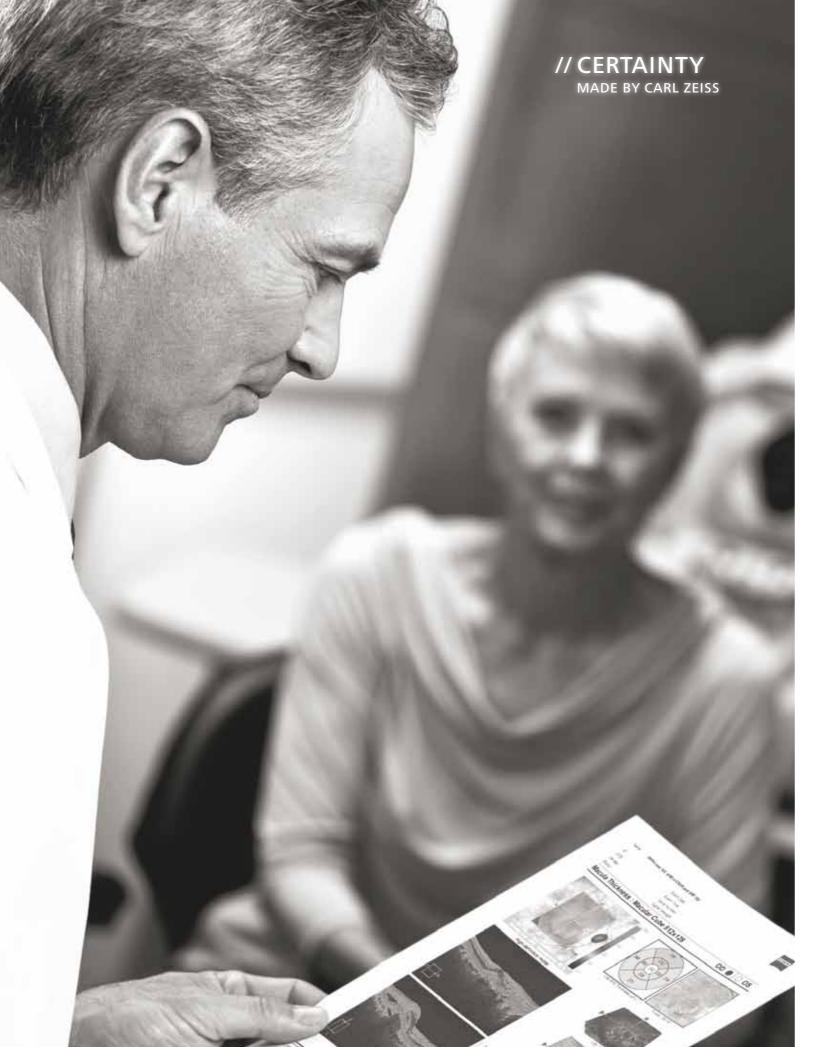


Cirrus HD-OCTCertainty in seconds. Certainty for years.





We know you'll love a Cirrus.

Keeping both your patients and your practice in mind, Carl Zeiss Meditec, the global leader in OCT, developed Cirrus™ HD-OCT. Not only does it supply you with bar-setting imagery, it delivers detailed diagnostic and change analyses you can rely on time and again. Along with its small footprint and fast capture speeds, Cirrus is designed to improve workflow efficiency while helping you deliver better care to your patients.

It's time to see what you've been missing. It's time for Cirrus.

Superior analysis

With high-density cube data and proven segmentation, Cirrus delivers a diagnostic analysis you can trust.

Central Subfield Macular Thickness Repeatability Standard Deviation

No Disease	2.5 μm
AMD	8.7 µm
Macular Edema	7.0 µm
Diabetic Retinopathy	8.1 µm
VRI Disorder	4.3 μm

Source: 510(k) Summary: Cirrus HD-OCT with Retinal Nerve Fiber Layer and Macular Normative Databases, www.accessdata.fda.gov/cdrh_docs/pdf8/K083291.pdf.

Receiver Operating Characteristic Curves, Normal vs. Glaucomatous Eyes

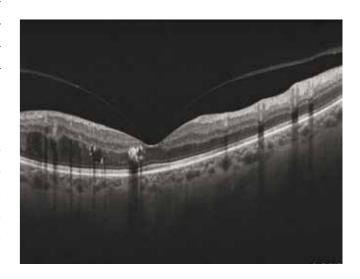
Parameter	Mild	Moderate to Severe	
Average RNFL Thickness	0.893	0.993	
Rim Area	0.912	0.999	
Vertical Cup-to-Disc Ratio	0.890	0.995	

Source: Mwanza et al. Ability of Cirrus HD-OCT optic nerve head parameters to discriminate normal from glaucomatous eyes. *Ophthalmology*. 2011;118(2):241–248.

Spectacular imagery

With legendary ZEISS optics and Cirrus, you'll experience brilliant, detail-rich visuals to help you diagnose and care for your patient.

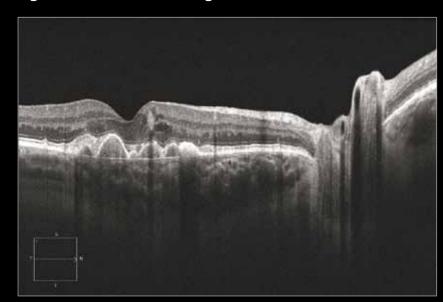
Cirrus uses Selective Pixel Profiling™ to optimize each pixel in its HD Raster Scans. It produces imagery that goes beyond mere image-averaging. It's a difference you need to see to believe.



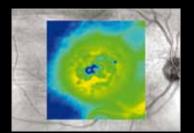
One pathology. Multiple views.

Cirrus gives you the ability to view pathologies from multiple vantage points—and with a range of at-a-glance visualization formats, you'll be able to better assess your patient's condition and determine the appropriate course of action.

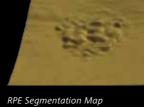
Age-Related Macular Degeneration

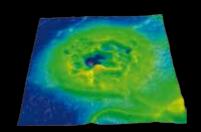


HD 5 Line Raster

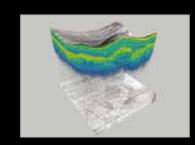


LSO Fundus Image with Macular Thickness Map





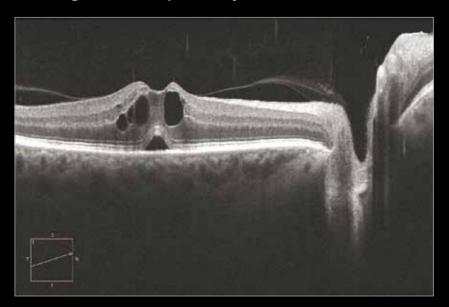
Macular Thickness Map



3D Visualization

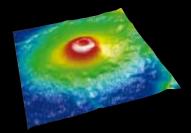
Advanced Visualization™ with RPE Fit Slab

Postsurgical Pseudophakic Cystoid Macular Edema



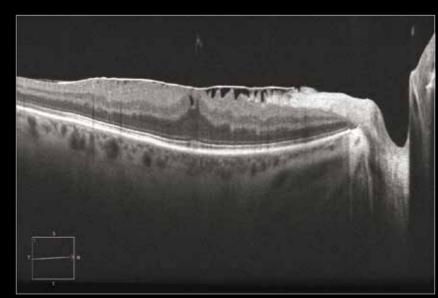
HD 5 Line Raster

LSO Fundus Image with Raster Line

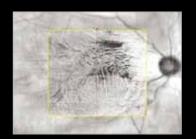


Macular Thickness Map

Epiretinal Membrane



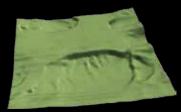
HD 5 Line Raster



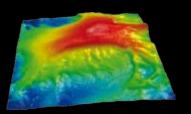
LSO Fundus Image with ILM Slab



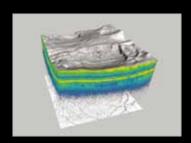
Advanced Visualization™ with ILM Slab



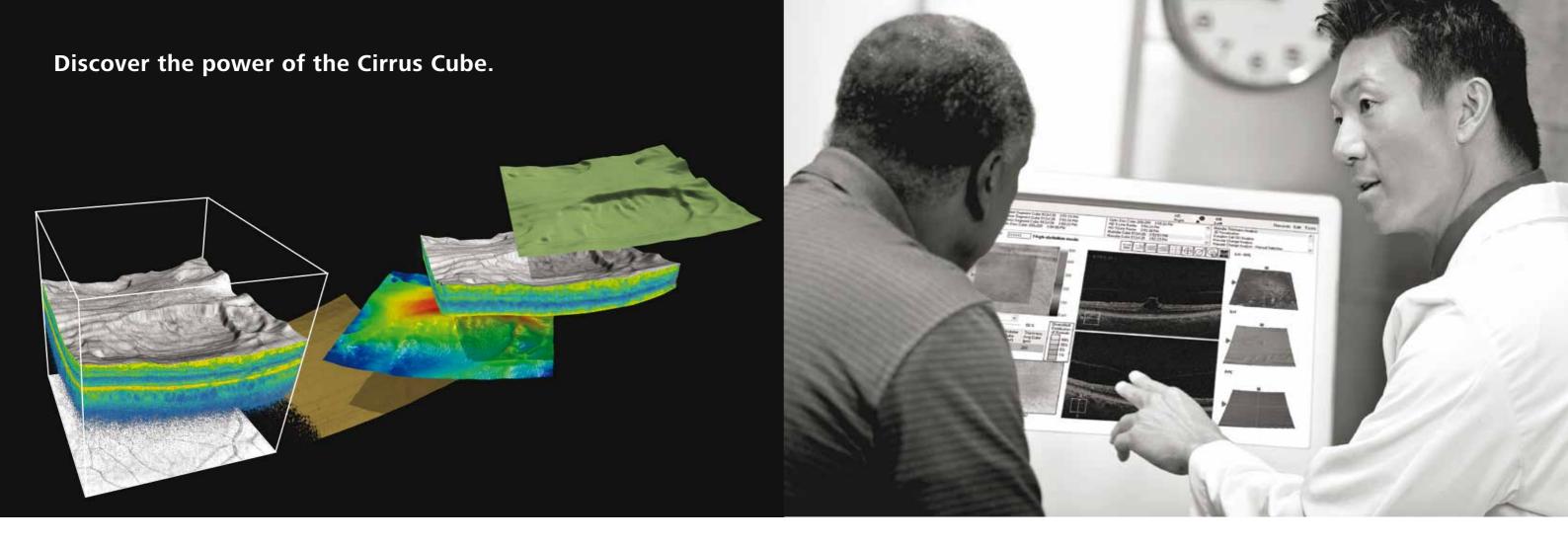
ILM Segmentation Map



Macular Thickness Map



3D Visualization



Cirrus offers unsurpassed OCT technology. Capturing a tightly packed, detail-rich cube of data in just seconds, it allows you to both visualize and analyze your patient's condition. Because the cube is populated with such high-density data, you can explore pathologies without requiring additional scan patterns.

Scan Pattern	Data Points Per A-Scan	Total Data Points	Spacing Between Lines	Capture Time
512 x 128	1024	> 67 million	47 μm	2.4 s
200 x 200	1024	> 40 million	30 μm	1.5 s

Scan with greater granularity

Closely spaced B-scans within the cube ensure that even small areas of pathology are captured and easily viewable, unlike scans that are spaced further apart, which may miss the central fovea or nearby subtle defects.

Enhance your analysis

Millions of data points from the cube are fed into ZEISS proprietary algorithms for accurate segmentation, reproducible measurements and registration for change analysis.

Analysis you can trust.

Generating a comprehensive cube of data is only the beginning. Cirrus gives you the ability to see beyond the scan and transform information into insight, becoming an indispensable part of your day-to-day clinical decision-making process.

Algorithm excellence

Carl Zeiss Meditec and its research collaborators have developed advanced algorithms to measure and display layers.

Automatic, accurate centering of the measurement

FoveaFinder™ and AutoCenter™ technologies ensure that measurements are made in the correct locations, taking the pressure off the operator to center the scans perfectly.

Cube registration to track change

Cirrus data cubes are automatically registered with data from prior visits, allowing for point-to-point comparisons.

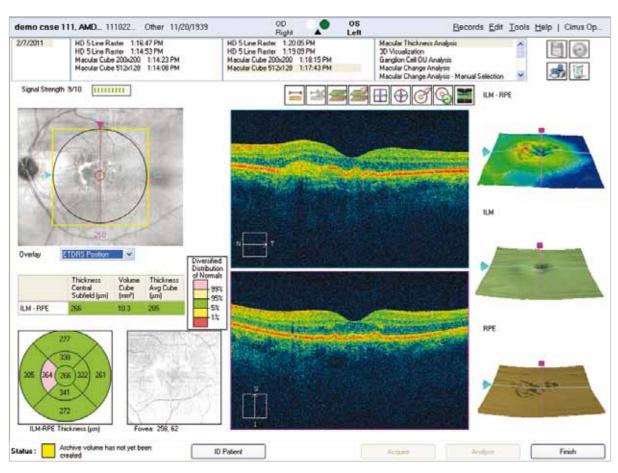
Normative data

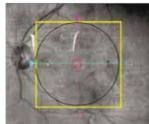
Diversified normative databases for ONH, RNFL and macular thickness facilitate at-a-glance assessments.



Increase your diagnostic certainty

Cirrus enables rapid, careful assessment of the retina. By utilizing precise macular thickness analyses, providing detailed ILM and RPE layer maps and putting more than 100 B-scans at your disposal, Cirrus provides the framework to assess your patient's retinal condition.



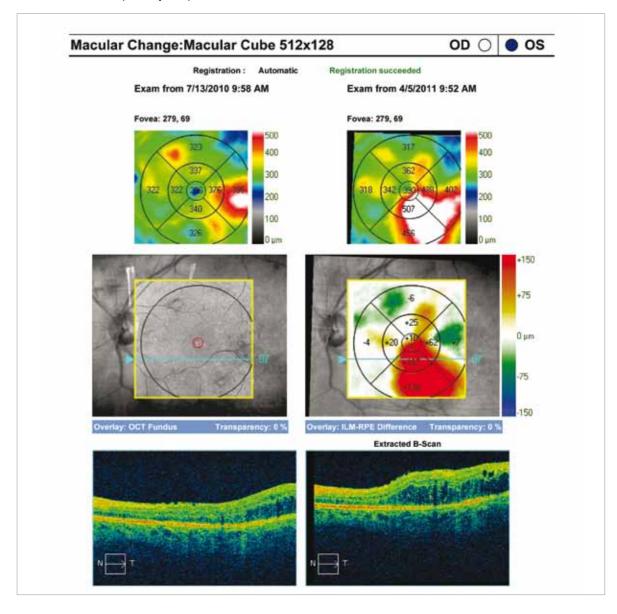


FoveaFinder™

With FoveaFinder,™ Cirrus automatically and accurately locates the fovea, centers the ETDRS measurement grid and presents you with the B-scan through the fovea by default.

Track subtle macular change

Cirrus data cubes are automatically registered with data from prior visits after the scan is acquired. This enables side-by-side visualization of the same location on the retina for each visit. Cirrus compares measurements from the current and prior visits to provide a thickness change map and helps you determine next steps for your patient.



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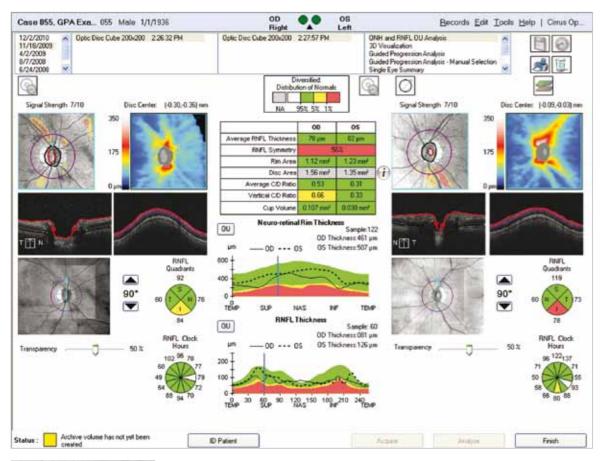
// GLAUCOMA MANAGEMENT

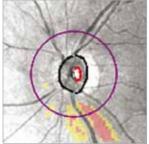
MADE BY CARL ZEISS

Identify and track RNFL and ONH for glaucoma management

With Cirrus, all traditional RNFL measurements based on the 3.4 mm circle are present; however, Cirrus enables you to see past the circle-based assessments. Spotting wedge defects and other patterns of loss is simplified with Deviation Maps, which show comparisons to normative data for each superpixel in the 6 x 6 mm area.

Unique Cirrus Optic Nerve Head analysis provides automated identification of the optic disc and cup boundaries. The analysis is generated using the dense data in the Optic Disc 200 x 200 data cube in tandem with a proprietary ZEISS algorithm. This algorithm precisely measures the neuroretinal rim while accounting for tilted discs, disruptions to the RPE and other challenging pathologies.



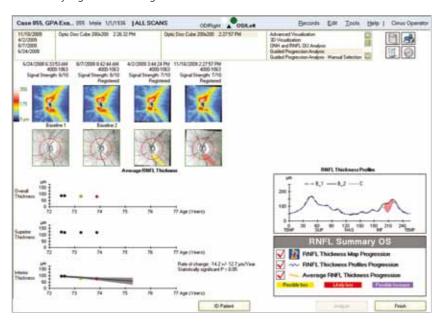


AutoCenter™

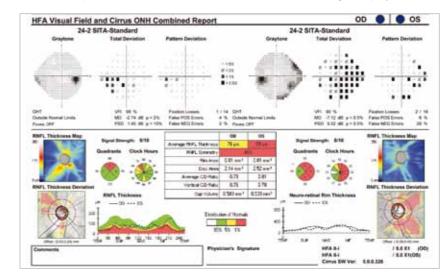
After the scan is acquired, Cirrus automatically centers the measurement circle around the disc. The placement is not operator-dependent.



Guided Progression Analysis^m (GPA m) compares RNFL thickness measurements from data cubes obtained during different visits and allows you to determine if statistically significant change has occurred over time.



The HFA-Cirrus Combined Report, available exclusively with ZEISS FORUM, summarizes patient structure and function information in a single display.

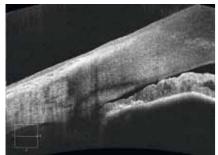


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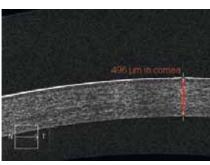


Expand your diagnostic insight

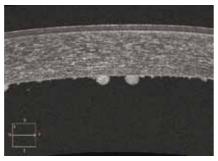
Cirrus offers anterior segment imaging of the angle and cornea and the ability to measure central cornea thickness.



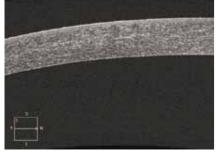
Narrow Angle Visualization



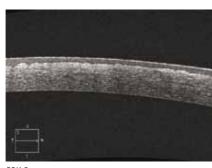
Central Corneal Thickness Measurement



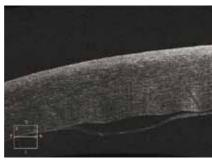
Keratic Precipitates



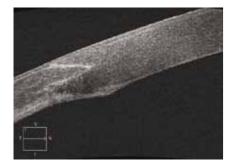
Microstriae



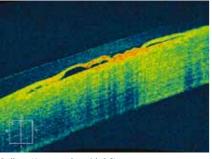
PRK Scar



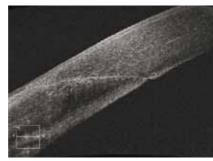
Descemet Detachment



IEK Zigzag



Bullous Keratopathy with BCL



Cataract Incision

From the industry leader in OCT, Cirrus is the best-selling spectral domain OCT in the world.

Cirrus represents the culmination of decades of patents, prototypes and progress. ZEISS is committed to delivering the excellence in installation, training and ongoing support you expect from the market leader.

As new diagnostic needs emerge and new therapies are developed, innovation continues with Cirrus.

In addition, recognizing the modern electronic workplace, Cirrus integrates seamlessly into EMRs and with FORUM®, our advanced data management solution for simplifying, centralizing and viewing the vast amounts of clinical data generated by ophthalmic instruments.

There's only one OCT that promises you Certainty in Seconds, Certainty for Years.™

There's only one Cirrus.



For videos, presentations, recent clinical literature and updated product information, visit: www.meditec.zeiss.com/cirrus

www.meurtec.zeiss.com/cirrus

Australia

Carl Zeiss Pty. Ltd. Unit 13, 2 Eden Park Drive North Ryde, New South Wales 2113 Australia Phone: +61 2 9020 1333

med@zeiss.com.au

Austria

Carl Zeiss GmbH Laxenburger Str. 2 1100 Vienna Austria Phone: +43 1 79 51 80 austria@zeiss.org

Belgium

Carl Zeiss NV-SA Ikaroslaan 49 1930 Zaventem Belgium Phone: +32 2 719 39 11 info@zeiss.be

Brazil Carl Zeiss do Brasil Ltda.

Av. Nações Unidas, 21711 CEP04795-100 São Paulo Brazil Phone: +55 11 5693 5521

medbrasil@zeiss.org

Canada

Carl Zeiss Canada Ltd. 45 Valleybrook Drive Toronto, ON M3B 2S6 Canada Phone: +1 800 387 8037 micro@zeiss.com

China

Carl Zeiss Shanghai Co. Ltd. 1/f., Ke Yuan Building 11 Ri Yin Nan Road Waigaoqiao Free Trade Zone 2005 Yang Gao Bei Road Shanghai 200131 China

Phone: +86 21 5048 17 17 sro@zeiss.com.cn

Czech Republic

Carl Zeiss spol. s.r.o. Radlická 14/3201 150 00 Prague 5 Czech Republic Phone: +420 233 101 221 zeiss@zeiss.cz

Carl Zeiss Meditec France SAS 60, route de Sartrouville 78230 Le Pecq France Phone: +33 1 34 80 21 00 med@zeiss.fr

Germany

Carl Zeiss Meditec VG mbH Carl-Zeiss-Strasse 22 73446 Oberkochen Germany Phone: +49 7364 20 6000 vertrieb@meditec.zeiss.com Surgical Ophthalmology: Phone: +49 800 470 50 30 iol.order@meditec.zeiss.com

Hong Kong

Carl Zeiss Far East Co. Ltd. Units 11-12, 25/F Tower 2. Ever Gain Plaza No. 88 Container Port Road Kwai Chung Hong Kong Phone: +852 2332 0402 czfe@zeiss.com.hk

India

Carl Zeiss India Pvt. Ltd. 22, Kensington Road Ulsoor Bangalore 560 008 India Phone: +91 80 2557 88 88 info@zeiss.co.in

Italy

Carl Zeiss S.p.A. Viale delle Industrie 20 20020 Arese (Milan) Italy Phone: +39 02 93773 1 post@zeiss.it

Japan

Carl Zeiss Meditec Japan Co. Ltd. Shinjuku Ku Tokyo 160-0003 22 Honchio-Cho Japan Ophthalmic instruments: Phone: +81 3 33 55 0331 medsales@zeiss.co.jp Surgical instruments: Phone: +81 3 33 55 0341 cmskoho@zeiss.co.jp

Malaysia

Carl Zeiss Sdn Bhd. Lot 2, Jalan 243/51 A 46100 Petaling Jaya Selangor Darul Ehsan Malaysia Phone: +60 3 7877 50 58 malaysia@zeiss.com.sg

Mexico

Carl Zeiss de México S.A. de C.V. Avenida Miguel Angel de Quevedo 496 04010 Mexico City Phone: +52 55 59 99 0200

cz-mexico@zeiss.org

Netherlands

Carl 7eiss B V Tranezium 300 Postbus 310 3364 DL Sliedrecht Netherlands Phone: +31 184 43 34 00 info@zeiss.nl

New Zealand

Carl Zeiss (N.Z.) Ltd. 15B Paramount Drive P.O. Box 121 - 1001 Henderson, Auckland 0650 New 7ealand Phone: +64 9 838 5626 med@zeiss.com.a

Poland

Carl Zeiss sp. Z o.o. ul. Lopuszanska 32 02-220 Warsaw Poland Phone: +48 22 858 2343

medycyna@zeiss.pl

Singapore

Carl Zeiss Ptd. Ltd. 50 Kaki Bukit Place Singapore 415926 Singapore Phone: +65 6741 9600 info@zeiss.com.sq

South Africa

Carl Zeiss (Pty.) Ltd.

363 Oak Avenue Ferndale Randburg 2194 South Africa Phone: +27 11 886 9510 info@zeiss.co.za

South Korea Carl Zeiss Co. Ltd.

Seoul 121-828 Mapo-qu 141-1, Sangsu-dong 2F. BR Elitel Blda. South Korea Phone: +82 2 3140 2600 korea@zeiss.co.kr

Spain

Carl Zeiss Meditec Iberia S.A. Ronda de Poniente, 15 Tres Cantos 28760 Madrid Spain . Phone: +34 91 203 37 00

info@zeiss.es

Sweden

Carl Zeiss AB Tegeluddsvaegen 76 10254 Stockholm Sweden Phone: +46 84 59 25 00 info@zeiss.se

Switzerland

Carl Zeiss AG Feldbachstrasse 81 8714 Feldbach Switzerland Phone: +41 55 254 7534

med@zeiss.ch

Thailand

Carl Zeiss Thailand Floor 8, Thosapol Land Building 2 230 Ratchadapisek Road Huaykwang, Bangkok 10310 Thailand Phone: +66 2 2 74 06 43 thailand@zeiss.com.sq

United Kingdom Carl Zeiss Ltd.

15-20 Woodfield Road Welwyn Garden City Hertfordshire, AL7 1JQ United Kingdom Phone: +44 1707 871200 info@zeiss.co.uk

United States of America Carl Zeiss Meditec, Inc.

5160 Hacienda Drive Dublin, CA 94568 Phone: +1 925 557 4100

info@meditec.zeiss.com

CE ...



Carl Zeiss Meditec, Inc.

5160 Hacienda Drive **Dublin, CA 94568** USA www.meditec.zeiss.com/cirrus

Carl Zeiss Meditec AG

Goeschwitzer Str. 51-52 07745 Jena Germany www.meditec.zeiss.com/cirrus Pixel Profiling, Advanced Visualization, Guided Progression Analysis, AutoCenter, FoveaFinder and Certainty in Seconds, Inc. in the United States and/or other countries. © 2011 by Carl Zeiss Meditec, Inc. All copyrights reserved. 1011 5M