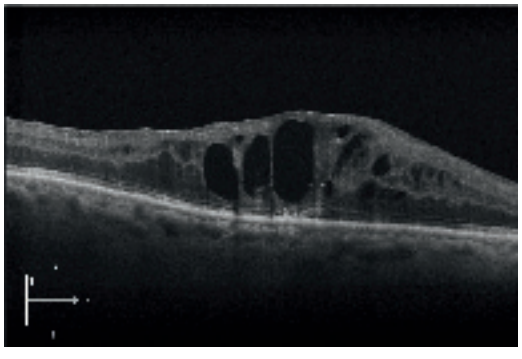
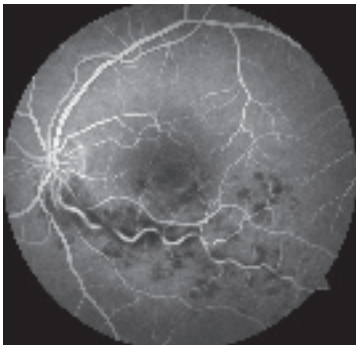
CIRRUS photo

Certainty meets versatility

ZEISS

We make it visible.





CIRRUS photo

One system for fundus imaging and OCT

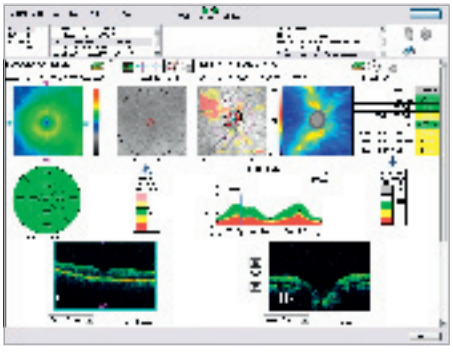
Broader clinical insights, greater diagnostic certainty and added practice value – the new CIRRUS™ photo from ZEISS delivers all that in a single, integrated system for both fundus imaging and OCT.

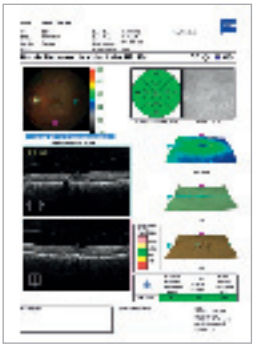
CIRRUS photo combines a full mydriatic/non-mydriatic fundus camera with proven CIRRUS HD-OCT technology in one compact and highly versatile system. Available in two models, CIRRUS photo 600 and CIRRUS photo 800, it provides multiple insights for comprehensive retina and posterior segment care.

Visualize findings from various modalities. Correlate data from high-density OCT cubes, thickness and layer maps with results from superb color fundus images as well as fundus autofluorescence and fluorescein angiography* images. All in one convenient sitting.

Achieve a more comprehensive clinical evaluation. Save time and space. Enhance the examination experience for your patients and staff.

Have it all in a single system for fundus imaging and OCT.





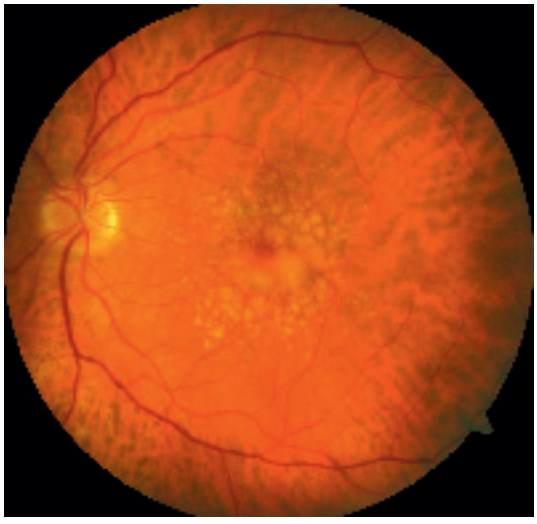
** Only with CIRRUS photo 800*

Broader clinical insights

By simultaneously providing high-quality fundus images and OCT scans, CIRRUS™ photo facilitates broader, more comprehensive diagnostic insights. Each modality by itself is a premier quality diagnostic instrument. Together, they enable you to characterize and examine the patient's condition more completely and easily.

A fundus camera …

CIRRUS photo is a full-featured mydriatic/ non-mydriatic fundus camera.



Exceptional visualizations

Legendary ZEISS optics let you visualize findings with high-resolution clarity and sharpness.

Single-shot fundus autofluorescence

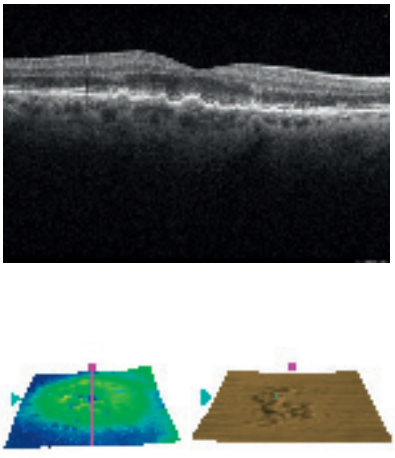
Fundus autofluorescence imaging designed for fast and easy assessment of dry AMD.

High-resolution angiographies

Also available with fluorescein angiography and indocyanine green angiography, CIRRUS photo equips you with a more detailed diagnostic view.*

… and a CIRRUS HD-OCT

CIRRUS photo incorporates unsurpassed OCT technology with its proven CIRRUS HD-OCT capabilities.



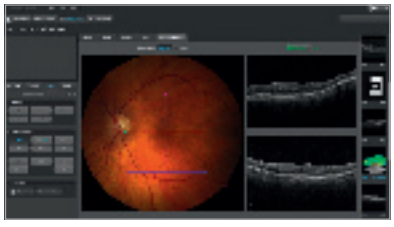
Great detail density

Highly dense OCT data cubes make even the smallest details clearly visible.

Analysis you can trust

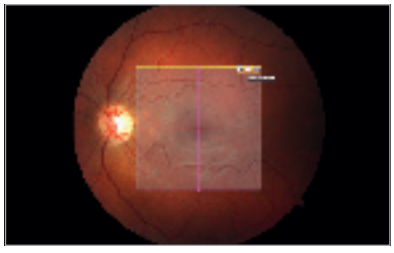
Detailed OCT scans and change analyses provide highly reliable diagnostic data in seconds.

**Only with CIRRUS photo 800*



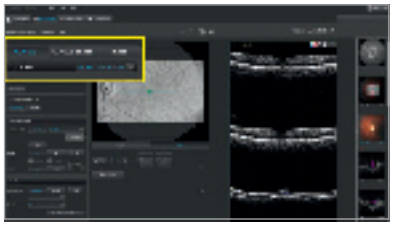
Interactive review

The system's one-of-a-kind MultiMode Navigator enables interactive analysis of registered fundus images and OCT cube scans – horizontal and vertical direction.



Precise registration

OCT scans are automatically registered with different types of fundus images including color fundus, angiography* and fundus autofluorescence* images, bringing depth to your analysis.



Multimodal assessments

CIRRUS photo allows you to conduct examinations with various modalities and to correlate the findings at one single workstation. Every fundus image can also be registered independently of the acquisition sequence, along with other flexible combinations.

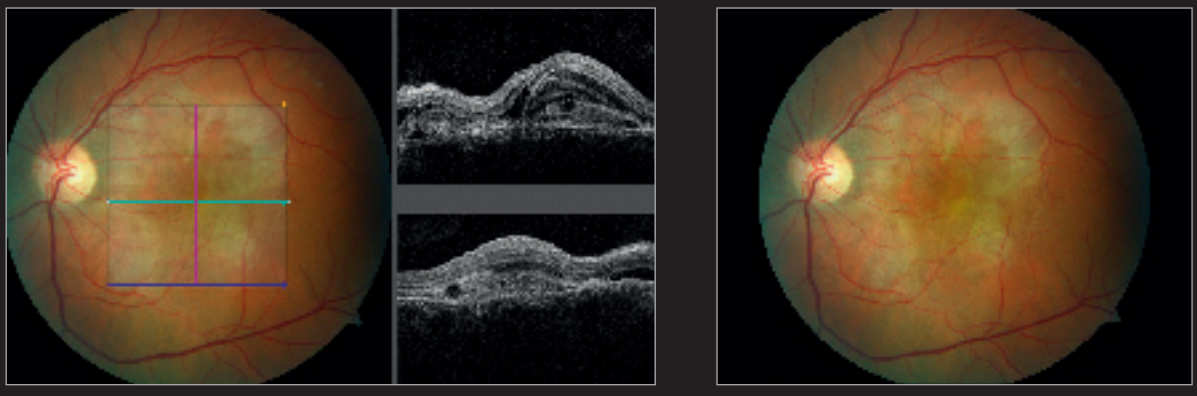
(inset magnified to show detail)

Orientation at a glance

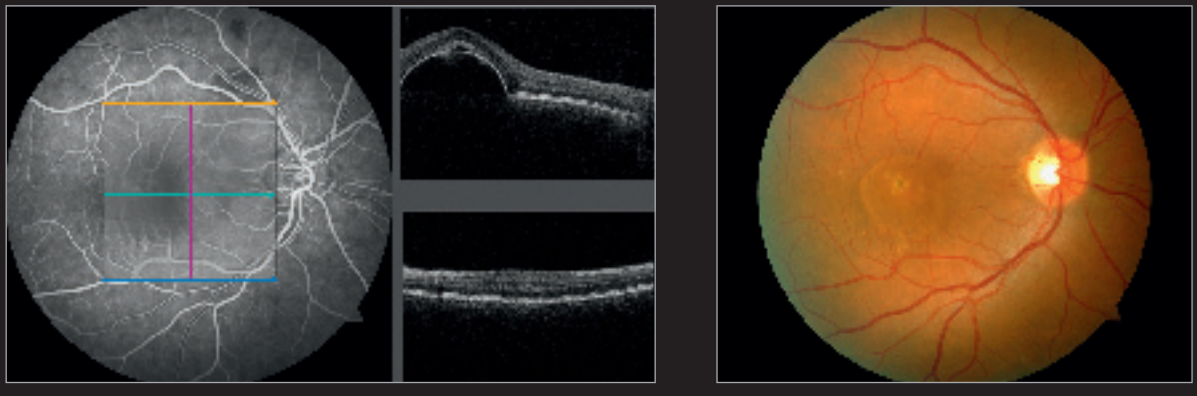
Whether for a quick overview or point-by-point comparisons, thumbnails provide at-a-glance insights.

Versatile visualizations

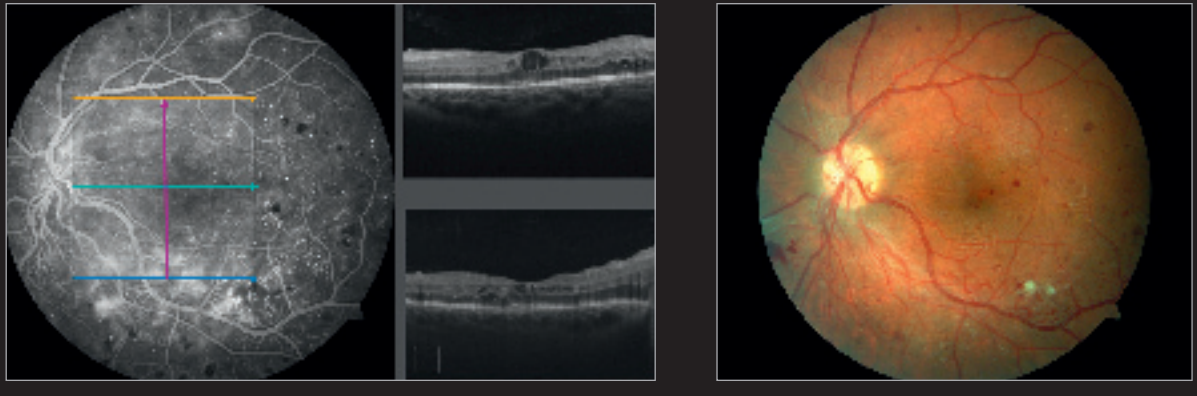
Harada's disease



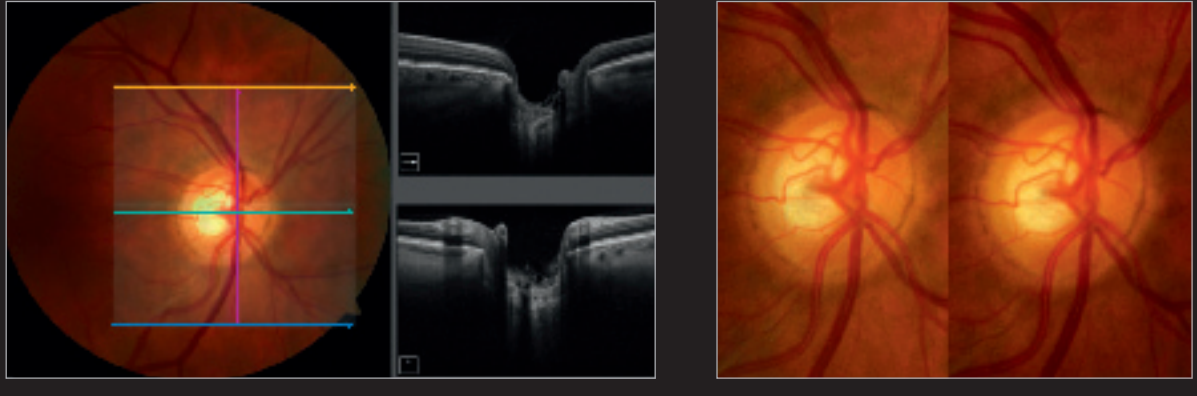
Retinal pigment ephithelial detachment

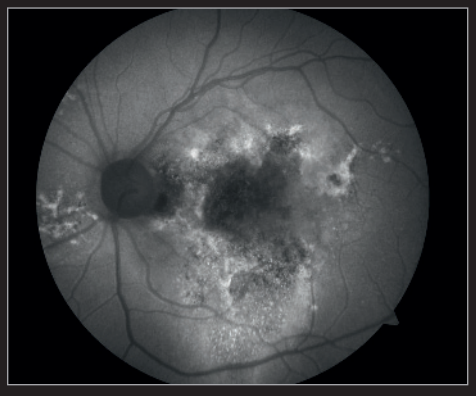
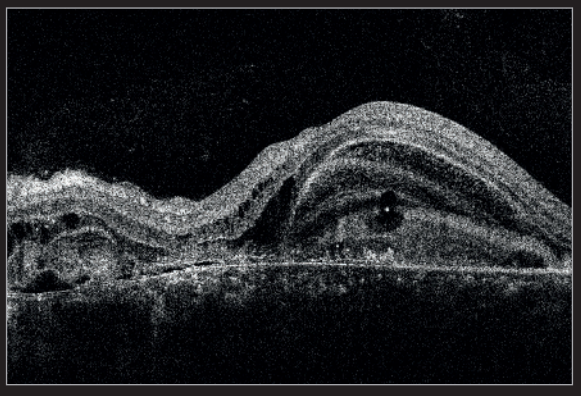
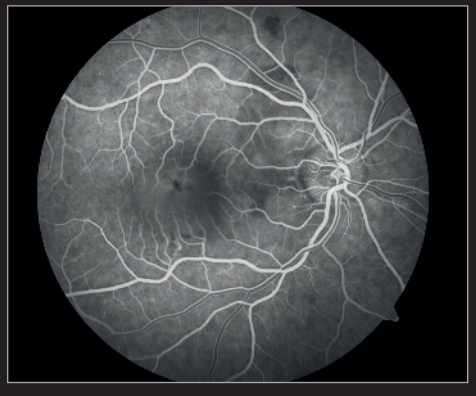


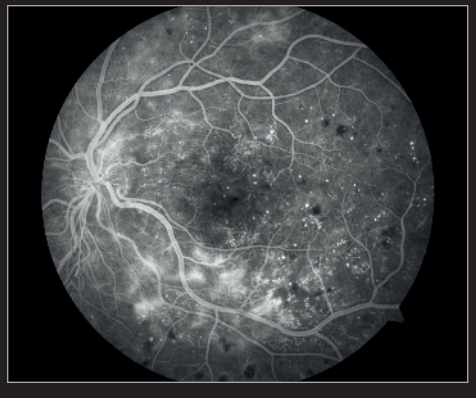
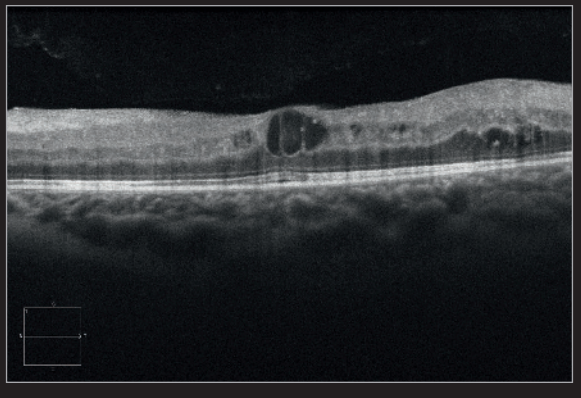
Proliferative diabetic retinopathy



Glaucoma



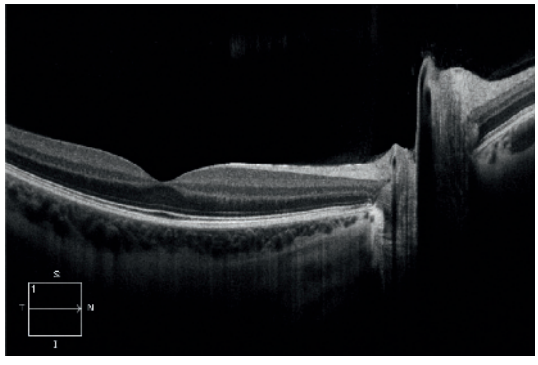



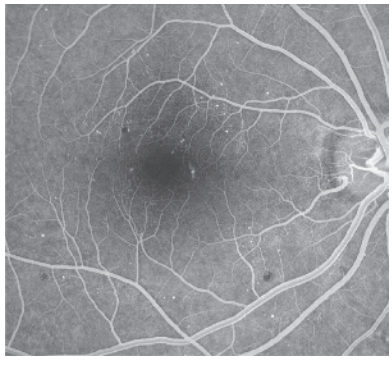
Greater diagnostic certainty

Comprehensive, high-quality diagnostics form the basis for informed decisions. With its superb multimodality visualizations, CIRRUS™ photo delivers exceptional insights, supporting greater diagnostic accuracy and certainty.

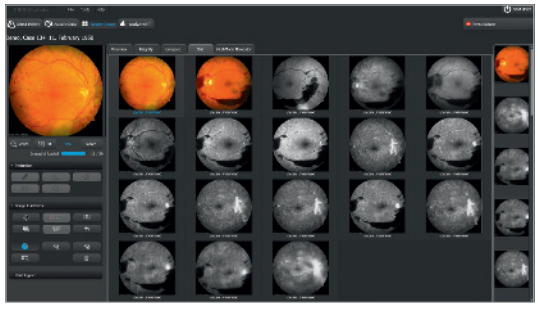
Extraordinary image quality

CIRRUS photo features standard-setting CIRRUS HD-OCT technology and a full-featured mydriatic/nonmydriatic fundus camera. The result – visualizations of a quality that is truly extraordinary.

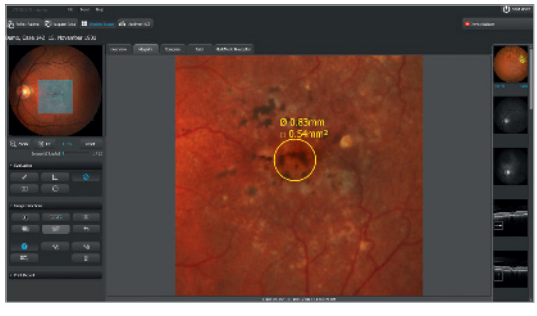




Overview at a glance



See the details



Algorithm excellence
ZEISS and its research collaborators have developed advanced algorithms to measure and display layers.

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

Comparison capabilities
CIRRUS data cubes are automatically registered with data from prior visits, allowing for more detailed comparisons.

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

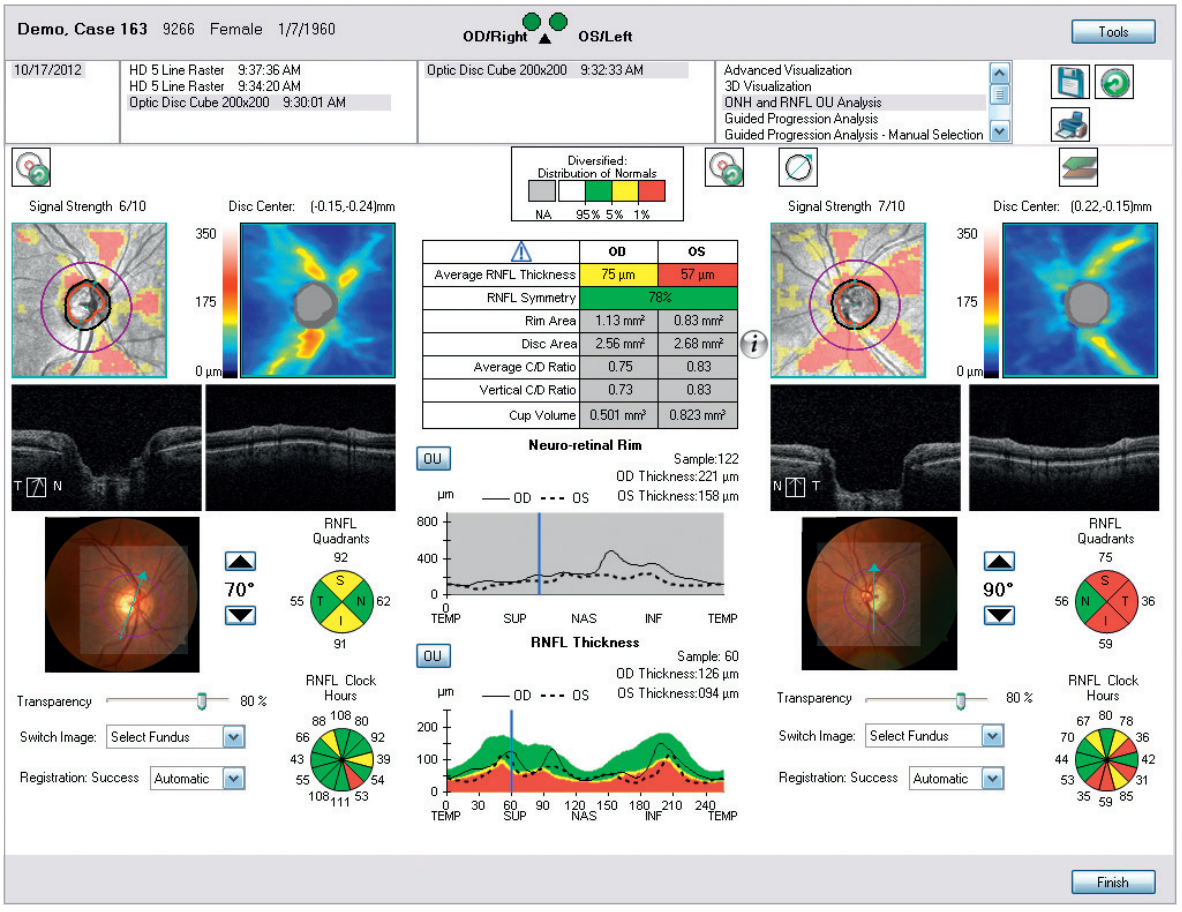
Specific fundus details
Enabling efficient cross-modality analysis, CIRRUS photo allows easy switching between fundus images registered with OCT scans and maps.

Fundus and OCT details in one view

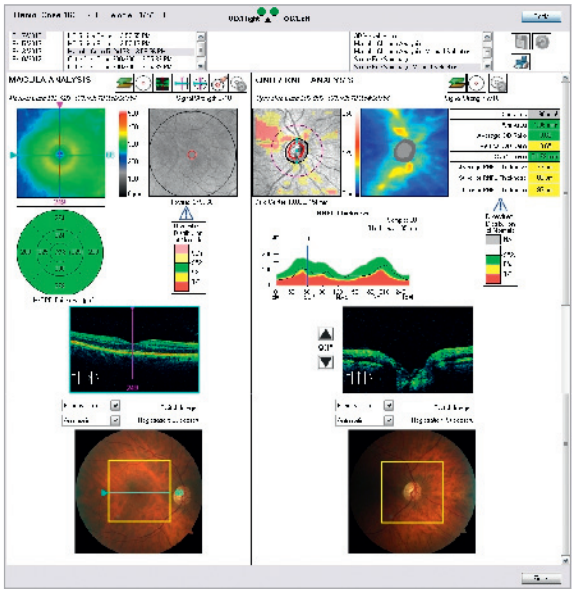
CIRRUS™ photo delivers combined fundus and OCT reports that enable quick, at-a-glance assessments for a wide variety of retina and posterior segment disorders.

Get the complete picture in a single view

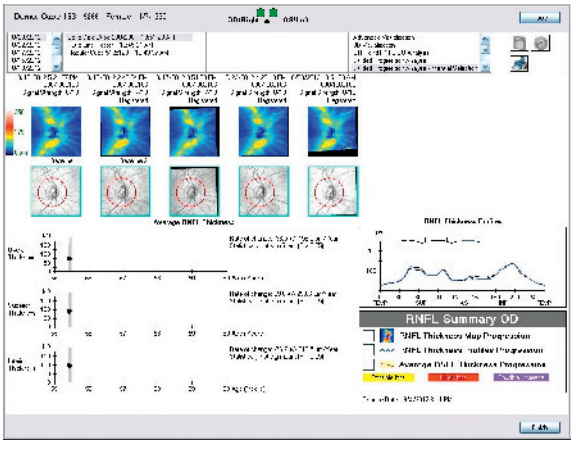
ONH & RNFL OU Analysis



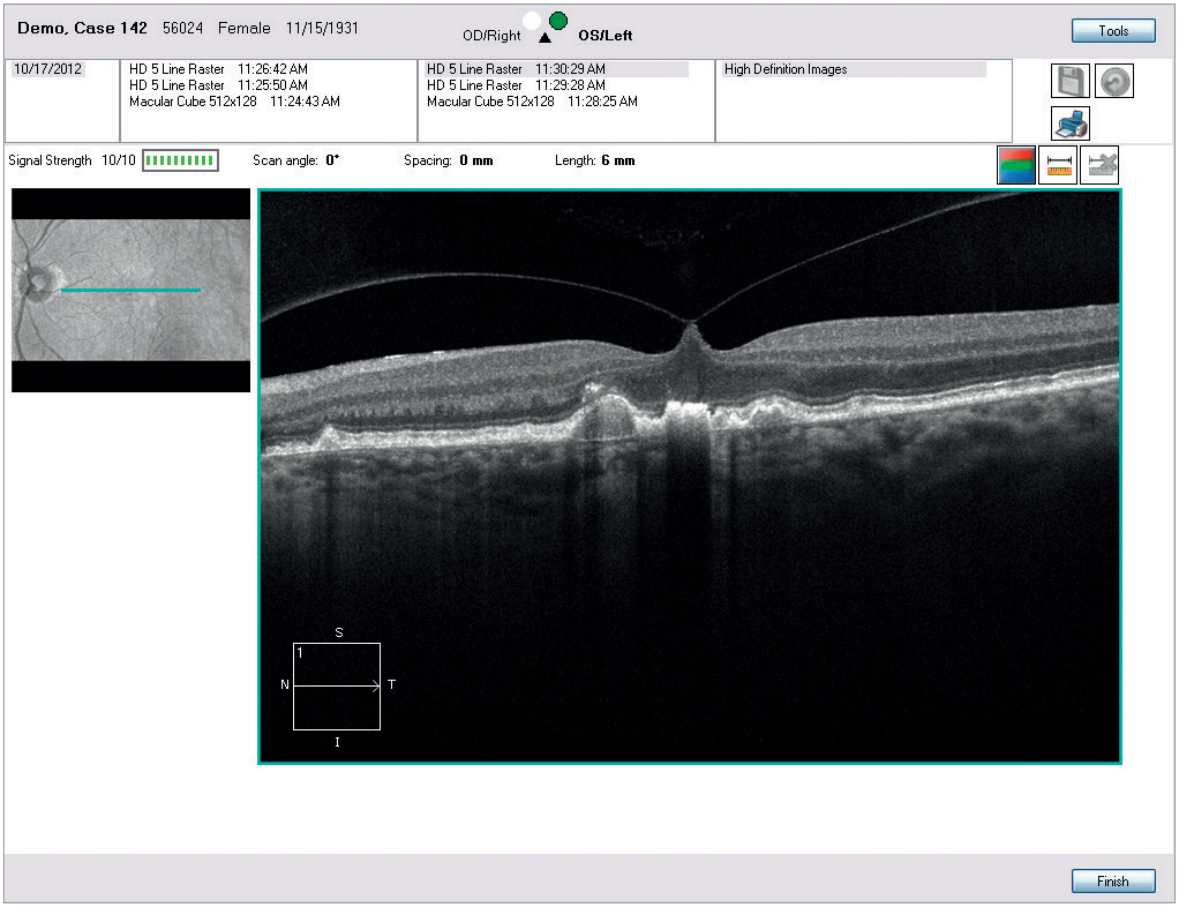
Single Eye Analysis



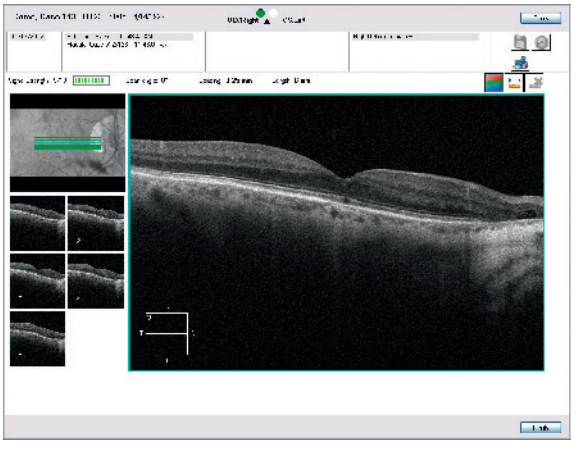
GPA Analysis



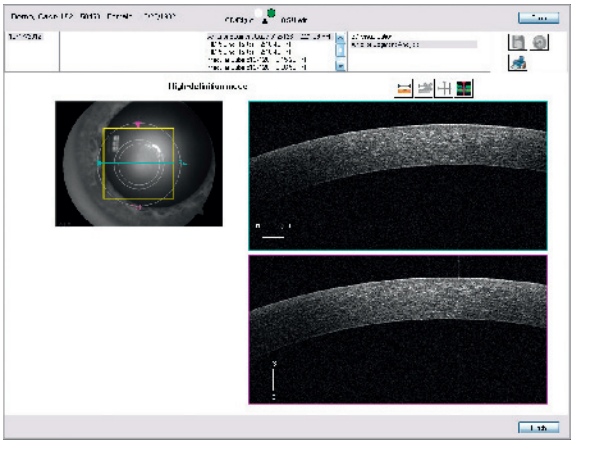
Enhanced HD Raster Single Line



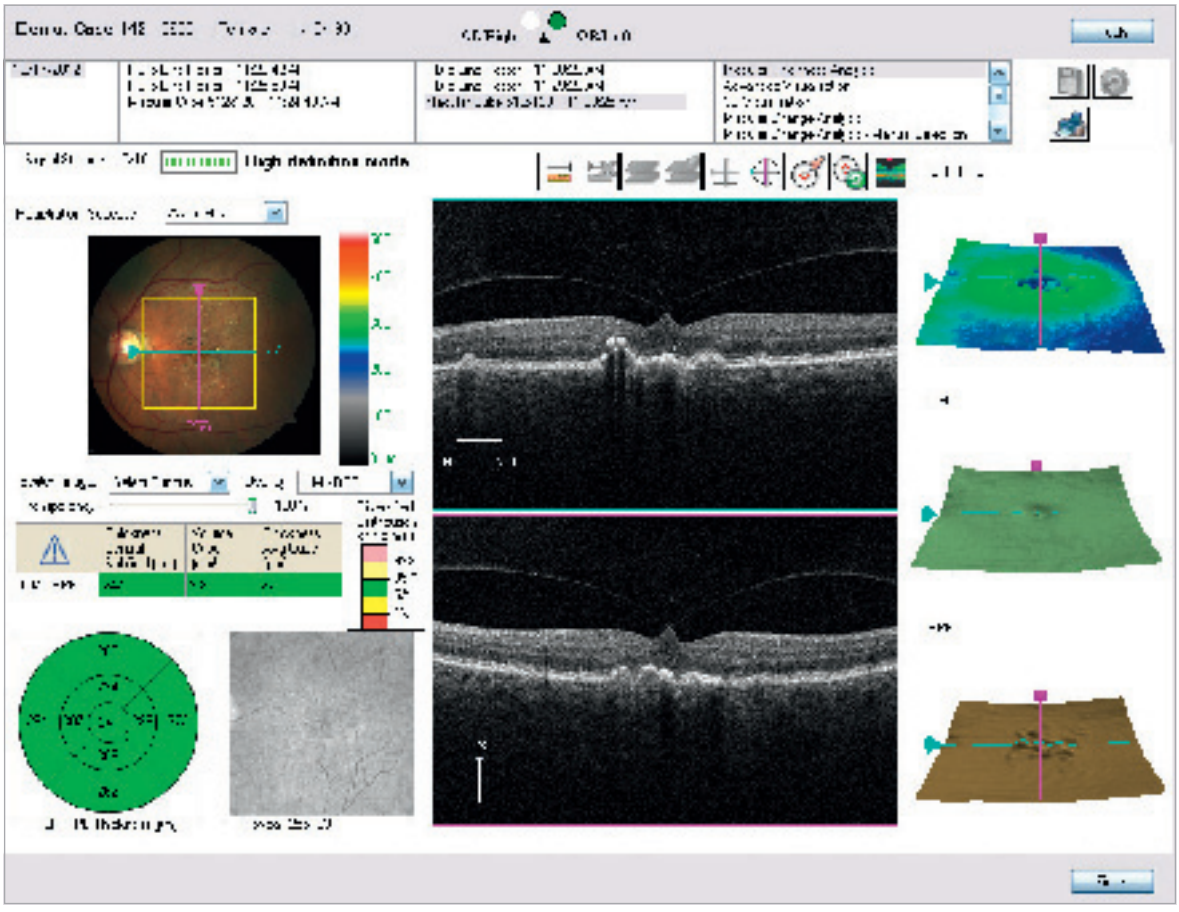
Enhanced HD 5 Line Raster



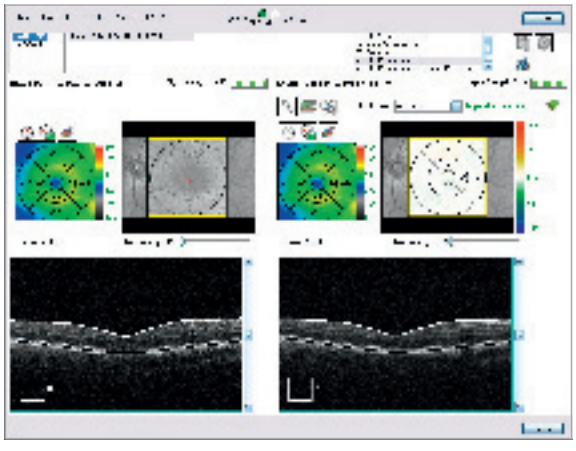
Anterior Segment



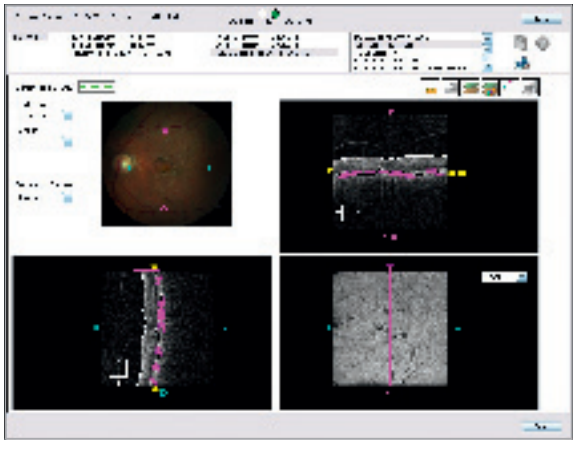
Macular Thickness Analysis



Macular Change Analysis



Advanced Visualization

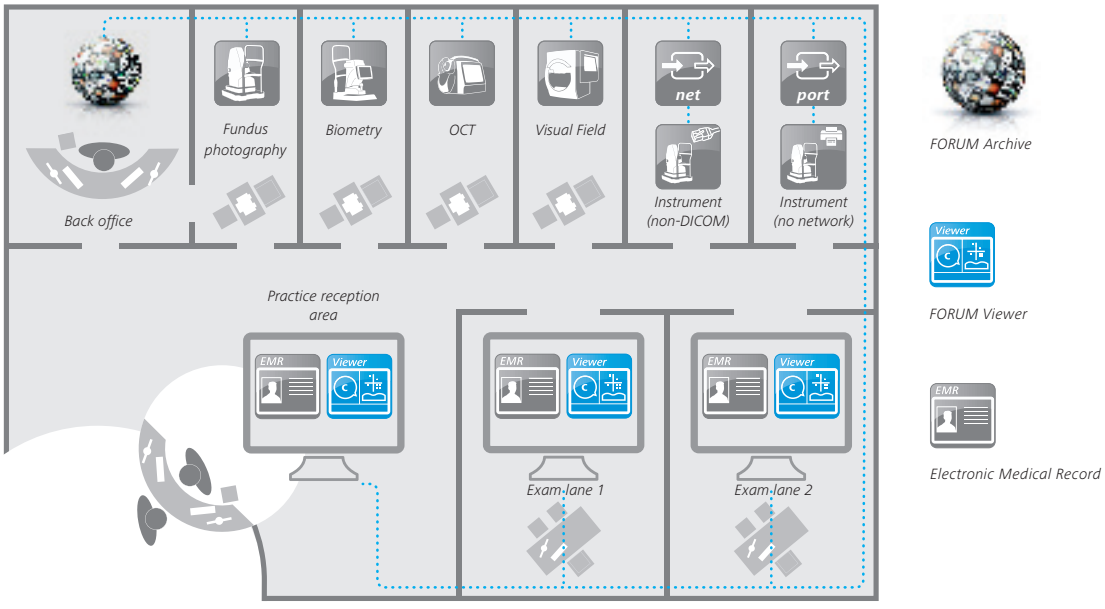


CIRRUS photo offers a versatile suite of OCT analyses, which means more insight into your treatment decisions.

Added practice value

As a highly efficient and versatile instrument, CIRRUS™ photo offers substantial value. In addition to streamlining your workflow and supporting more comprehensive assessments, it saves time and space. By eliminating the need to move patients to another instrument, it also enhances the examination experience – for patients and practice staff alike.

CIRRUS photo – a single workstation complete with joystick, keyboard and TFT monitor for comprehensive clinical evaluations.



More clinical efficiency

With CIRRUS photo, you can add a color fundus image to an OCT examination for additional assessment – in seconds and without additional dilation.

More practice efficiency

The ability to capture all necessary fundus images and HD-OCT scans in a single patient setup saves you time and space. As such, CIRRUS photo is ideally suited for comprehensive practices working with or without angiography.

More time for patients

Easy, convenient and operator-independent storage of CIRRUS photo data is provided by FORUM®. Via the FORUM Archive & Viewer, you can effortlessly exchange examination results with EMR systems and other diagnostic instruments – even with other practice sites.

More flexibility

Featuring a modular design, CIRRUS photo lets you individually choose the diagnostic modalities and clinical insights best suited for your practice needs – whether OCT, color and red-free fundus imaging, fundus autofluorescence, fluorescein angiography, ICG angiography, and anterior segment.

Image courtesy of:

Annette Brusis MD, Eye Center Heppenheim Dr. Wolff, Dr. Brusis, Dr. Köster, Germany (p. 2, 11)
Antonio Ferreras MD, Miguel Servet University Hospital, Spain (p. 6, 7, 11)
Matthias Jütte MD, Ophthalmic Practice Jütte, Jurkutat, Ilgner, Germany (p. 4, 8)

Technical data

Main system	CIRRUS photo 600/800
Field angle	45° and 30°
Pupil diameter	≥ 4.0 mm; ≥ 3.3 mm (30° small pupil mode) ≥ 2.0 mm for OCT scans only
Refractive error compensation	+35 D … -35 D, continuous
Working distance	40 mm (patient's eye – front lens)
Fixation targets Internal	External and internal Attention mode and free position or programmed sequences
Database	Patient information and images with field angle, FA time, R/L recognition and date of visit are stored
Monitor	23" TFT (1920 x 1200)
Instrument table	Asymmetric, suitable for wheelchairs
Accessories	Network printer, sliding keyboard shelf, network isolator, FORUM eye care data management system

Fundus camera	
Capture modes	Color, red-free, blue, red and fundus autofluorescence pictures, as well as pictures of the anterior segment, **CIRRUS photo 800 only:** + fluorescein angiography and ICG angiography
Filters	Filters for green, blue and fundus autofluorescence images, UV/IR barrier filters **CIRRUS photo 800 only:** + FA + ICGA: exciter and barrier filters
Capture sequence	From 1.5 seconds (depends on flash energy)
Capture sensor	CCD 5.0 megapixels
Xenon flash lamp	16 flash levels (30 Ws) **CIRRUS photo 800 only:** 24 flash levels (80 Ws)

OCT	
Technology	Spectral domain OCT
Optical source	Superluminescent diode (SLD), 840 nm
Scan speed	27,000 A-scan per second
A-scan depth	2.0 mm (in tissue), 1024 points
Resolution	Axial 5 µm (in tissue), transverse 15 µm (in tissue)

Computer	
Operating system	Windows Embedded
Hard drive	Storage of over 30,000 fundus images with OCT cube scans (present size: 320 GB)
Interfaces	USB ports and network connectors, DVI port
Export/import	Image formats: BMP, TIFF, JPEG, PNG Patient list, DICOM MWL, DICOM storage

Dimensions	
Main unit	410 mm x 480 mm x 680 mm (W 16.1 x D 18.9 x H 26.8 inches)
Weight (main unit)	33 kg (72.7 lbs)
Rated voltage	100 … 240 V ±10%
Frequency	50 / 60 Hz
Power consumption	400 VA (w/o instrument table)


The moment your diagnostic certainty
inspires your patient's trust.
This is the moment we work for.
// CIRRUS
MADE BY CARL ZEISS

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