CIRRUS photo from ZEISS
Certainty meets versatility
ZEISS 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.

ZEISS 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, ZEISS CIRRUS photo 600 and ZEISS 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 ZEISS CIRRUS photo 800
Broader clinical insights

By simultaneously providing high-quality fundus images and OCT scans, ZEISS 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 …**
ZEISS CIRRUS photo is a full-featured mydriatic/non-mydriatic fundus camera.

**… and a CIRRUS HD-OCT**
ZEISS CIRRUS photo incorporates unsurpassed OCT technology with its proven ZEISS CIRRUS HD-OCT capabilities.

---

**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*, ZEISS CIRRUS photo equips you with a more detailed diagnostic view.

**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 ZEISS 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
ZEISS 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 epithelial detachment

Proliferative diabetic retinopathy

Glaucoma
Greater diagnostic certainty

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

Extraordinary image quality
ZEISS CIRRUS photo features standard-setting ZEISS CIRRUS HD-OCT technology and a full-featured mydriatic/nonmydriatic fundus camera. The result – visualizations of a quality that is truly extraordinary.
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, ZEISS CIRRUS photo allows easy switching between fundus images registered with OCT scans and maps.
Fundus and OCT details in one view

ZEISS 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
**Macular Thickness Analysis**

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

---

**Macular Change Analysis**

---

**Advanced Visualization**
Added practice value

As a highly efficient and versatile instrument, ZEISS 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.
More clinical efficiency
With ZEISS 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, ZEISS 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® from ZEISS. Via the ZEISS 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, ZEISS 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

<table>
<thead>
<tr>
<th>Main system</th>
<th>ZEISS CIRRUS photo 600/800</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Field angle</strong></td>
<td>45° and 30°</td>
</tr>
</tbody>
</table>
| **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** | 24 flash levels (80 Ws maximum) |

### 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** | 230 V AC (± 10 %); 50 / 60 Hz or 100 V to 127 V AC (± 10 %); 50 / 60 Hz (depends on country) |
| **Frequency** | 50 / 60 Hz |
| **Power consumption** | 400 VA (w/o instrument table) |
Identifying subtle changes in pathology.

ZEISS CIRRUS Photo