CIRRUS photo
Certainty meets versatility
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.

… and a CIRRUS HD-OCT
CIRRUS photo incorporates unsurpassed OCT technology with its proven 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, 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 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.

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, 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/non-mydriatic fundus camera. The result – visualizations of a quality that is truly extraordinary.
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.

**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

<table>
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<th>Date</th>
<th>HD 5 Line Raster</th>
<th>5:07:14 AM</th>
<th>HD 5 Line Raster</th>
<th>5:07:14 AM</th>
<th>Optic Disc Cube 20x200</th>
<th>5:32:33 AM</th>
<th>Analysis Options</th>
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</thead>
</table>
| 10/12/2012 | HD 5 Line Raster | 5:07:14 AM | HD 5 Line Raster | 5:07:14 AM | Optic Disc Cube 20x200 | 5:32:33 AM | Advanced Visualization

#### ONH & RNFL OU Analysis

**ONH & RNFL Analysis**
- **Signal Strength**: 8/10
- **Disc Center**: 10.75, 0.24mm
- **Average RNFL Thickness**: OD 79 µm, OS 87 µm
- **RNFL Symmetry**: 29%
- **RNFL Area**: OD 1.03 mm², OS 1.04 mm²
- **Average Cup Ratio**: OD 0.75, OS 0.63
- **Vertical GD Ratio**: OD 0.79, OS 0.64
- **Cup Volume**: OD 0.001 mm³, OS 0.033 mm³

**Neuro-retinal Rim**
- **Sample**: 60
  - OD Thickness: 1.21 µm
  - OS Thickness: 1.54 µm

#### Single Eye Analysis

**Single Eye Analysis**

**GPA Analysis**

**GPA Analysis**

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10a
Macular Thickness Analysis

CIRRUS 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.
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 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 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 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, Ilgener, Germany (p. 4, 8)
# Technical data

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

## 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 a subtle change in pathology becomes a turning point in care. **This is the moment we work for.**
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