

Камеры для сетчатки глаза CLARUS, терапевтические лазеры, комбинированные, фотокоагуляционные, фотодеструктивные лазеры VISULAS

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The compact workstation for your retina, cataract and glaucoma workflows

ZEISS VISULAS combi



Ideal for a wide variety of applications, the VISULAS® combi from ZEISS is the first fully integrated therapeutic laser workstation offering SLT, photodisruption and photocoagulation technology without compromise. The laser slit lamp is the joint applicator for various applications. No need for time-consuming changes or relocation of the patient.



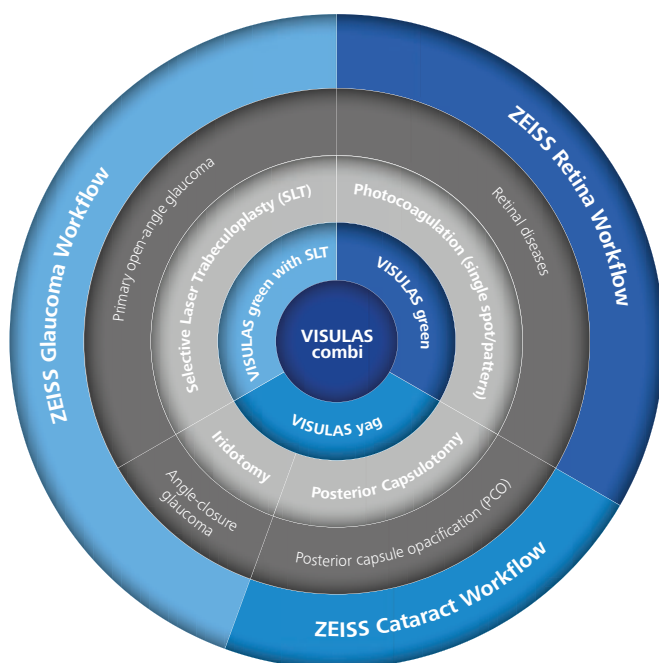
Customizable application modules

Mix and match three different modules based on the treatments you offer to your patients. The possibility to activate modules via software license makes the VISULAS combi a future-proof investment that can enhance your treatment options at anytime.



All VISULAS features and benefits without compromise

The ZEISS VISULAS combi offers the possibility to have the features and benefits of VISULAS green, VISULAS green with SLT and VISULAS yag in one space-saving workstation.



The integration of ZEISS VISULAS combi workstation into the ZEISS Workflows provides high level of flexibility and efficiency.¹



¹ Connectivity to ZEISS FORUM requires an optional license and VISUCONNECT 600.

Technical specifications

ZEISS VISULAS combi

	VISULAS combi – Photocoagulation	VISULAS combi – SLT	VISULAS combi – Photodisruption
Laser source	Frequency doubled Nd:YVO ₄ , diode-pumped, cw	Frequency doubled Nd:YVO ₄ , diode-pumped, cw	Nd:YAG laser: flash lamp-pumped, Q-switched
Laser wavelength of therapy beam	532 nm	532 nm	1064 nm
Pulse duration	■ Single pulse: 10 ms to 2,500 ms, cw (max. 180 s) ■ Multi spot: 10/20/30/40/50 ms	100 – 300 ns (FWHM)	< 4 ns (typically 2 ns to 3 ns)
Pulse interval	From 10 to 6,000 ms (adjustable)	-	-
Pulse mode	-	-	■ Single pulse: 9.0 mJ to 13.0 mJ at max. 2.5 Hz ■ Double pulse: 18.0 mJ to 28.0 mJ at max 1.0 Hz ■ Triple pulse: 29.0 mJ to 45.0 mJ at max 1.0 Hz
Laser beam guidance	Interlaced with slit illumination system	Interlaced with slit illumination system	-
Energy attenuation	-	-	22 levels
Data output	PDF to USB drive. Optional: PDF report to ZEISS FORUM ¹ (with ZEISS VISUCONNECT 600)		
Laser class	Class 4 (in accordance with IEC 60825-1)		
Dimensions	201 mm (H) × 230 mm (W) × 290 mm (D)		
Weight	≤ 8 kg		
Laser Slit Lamp	LSL green combi		
LED illumination	5.6 V, 2 W brightness continuously adjustable		
Slit width	0 to 14 mm (continuously)		
Slit height	1/3/5/9/14 mm		
Slit image rotation	0°/±45°/90°		
Aiming beam	■ Photocoagulation: Diode, 620 nm to 650 nm, max. 1 mW at the cornea ■ SLT: Diode, 620 nm to 650 nm, max. 1 mW at the cornea, rotating/fixed aiming beam (switchable) ■ Photodisruption: Diode, 660 nm to 680 nm, 2-point/4-point (switchable)		
Physician safety filter	ClearView® - true-to-color, fixed		
Magnification	5×/8×/12×/20×/32×		
Micromanipulator	Servo-electric		
Integrated display	InsightView® integrated		
Pupil distance setting range	55 mm to 78 mm		
Adjustment range for the observer's refractive error	-5 D to +5 D		
Device class	2 in accordance with ISO 15004-2		
Electrical power supply	Supplied by laser console		
Weight	≤ 16.0 kg		
Control Panel			
Weight	≤ 2 kg		
Optional	Applicators		
■ Panel PC (SL Workstation)	■ LSL combi laser slit lamp		
■ ZEISS SL Imaging Solution	■ LIO VISULAS green laser indirect ophthalmoscope		
■ Standard foot switch	■ Endoprobes		
■ TouchControl® foot switch			
■ Instrument table			
IT 1060.i/IT 760.i			
■ ZEISS FORUM license			

¹ Connectivity to ZEISS FORUM requires an optional license

Effective and safe IOP reduction in your glaucoma workflow

ZEISS VISULAS green with SLT

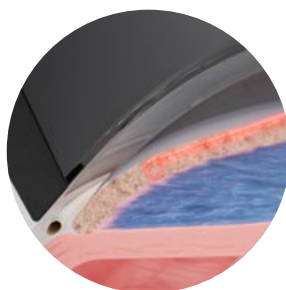


Maximize your glaucoma workflow with the ZEISS Selective Laser Trabeculoplasty (SLT) application for the VISULAS® green therapeutic laser from ZEISS. Based on the selective photothermolysis effect, ZEISS SLT is a safe and effective therapy for lowering the intraocular pressure within the treatment of primary open-angle glaucoma.



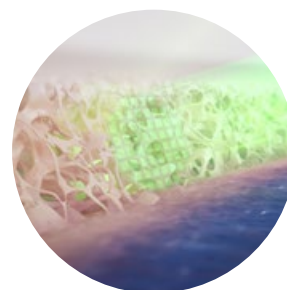
Simplified titration process

The selection of laser energy is based on the pigmentation of the patient's trabecular meshwork. With ZEISS VISULAS green laser technology, no cavitation bubbles are visible and the titration process is simplified. This saves time and limits unnecessary energy delivery to the patient's eye.



Unobstructed view of the targeted trabecular meshwork

The rotating aiming beam enables accurate positioning of the laser and improves visibility of the trabecular meshwork during treatment.



High homogeneity of laser energy distribution

Every ZEISS SLT laser application with a total diameter of 400 μm consists of 52 squared spots. The squared spot shape ensures homogeneity of the laser energy distribution.

The convenient integration of the compact ZEISS VISULAS green with SLT workstation into the ZEISS Glaucoma Workflow provides high levels of flexibility and efficiency. Review your patient's data prior to examination and treatment, then perform SLT. You can also review all information in one place post-treatment thanks to connectivity to the FORUM data management solution from ZEISS.¹



Technical specifications

ZEISS VISULAS green with SLT

ZEISS VISULAS green - SLT mode	
Laser source	Frequency doubled Nd:YVO ₄ , diode-pumped, cw
Laser wavelength of therapy beam	532 nm
Pulse duration	100 – 300 ns (FWHM)
Energy	5 – 65 µJ per pulse
Laser application	400 µm (every ZEISS SLT laser application with a total diameter of 400 µm consists of 52 squared spots)
Data output	PDF to USB drive Optional: PDF report to ZEISS FORUM ¹ (with ZEISS VISUCONNECT 600)
Laser class	Class 4 (in accordance with IEC 60825-1)
Dimensions	201 mm (H) × 230 mm (W) × 290 mm (D)
Weight	≤ 8 kg
Laser Slit Lamp	
LED illumination	5.6 V, 2 W brightness continuously adjustable
Slit width	0 to 14 mm (continuously)
Slit height	1/3/5/9/14 mm
Slit image rotation	0°/±45°/90°
Integrated display	InsightView® integrated
Aiming beam	Diode, 620 nm to 650 nm, max. 1 mW at the cornea, rotating/fixed aiming beam (switchable)
Physician safety filter	ClearView® - true-to-color, fixed
Magnification	5×/8×/12×/20×/32×
Micromanipulator	Servo-electric
Pupil distance setting range	55 mm to 78 mm
Adjustment range for the observer's refractive error	-5 D to +5 D
Device class	2 in accordance with ISO 15004-2
Electrical power supply	Supplied by laser console
Weight	≤ 12.5 kg
Control Panel	
Weight	≤ 2 kg
Optional	
■ Panel PC (SL Workstation) ■ ZEISS SL Imaging Solution ■ Standard foot switch ■ TouchControl® foot switch ■ Instrument table IT 1060.i/IT 760.i ■ ZEISS FORUM license	
Applicators	
■ LSL green comfort laser slit lamp	

¹ Connectivity to ZEISS FORUM requires an optional license

Maximize your glaucoma workflow with ZEISS SLT.



ZEISS VISULAS green



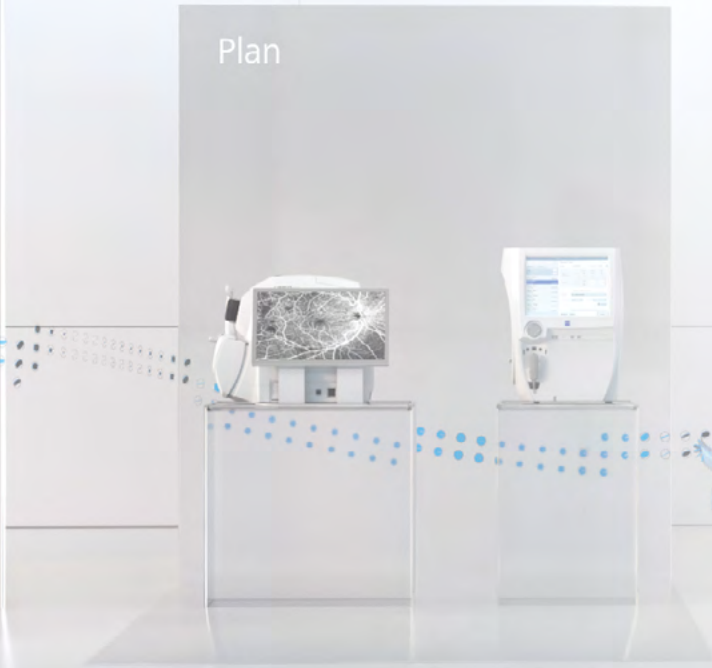
Seeing beyond

An efficient glaucoma treatment experience

integrated into the ZEISS Glaucoma Workflow.

Maximize your glaucoma workflow with the ZEISS Selective Laser Trabeculoplasty (SLT) application for the VISULAS® green therapeutic laser from ZEISS¹. Based on the selective photothermolysis effect, ZEISS SLT is a safe and effective therapy for lowering the intraocular pressure within the treatment of primary open-angle glaucoma. The intuitive operation of the ZEISS VISULAS green laser and the premium image quality of ZEISS laser slit lamps enables a fast and comfortable procedure for both you and your patients.

- ✓ Workflow integration and digital documentation
- ✓ Safe and effective primary open-angle glaucoma therapy
- ✓ Comfortable and intuitive operation



Review a patient's diagnostic data and laser treatment reports directly at your VISULAS workstation.

Workflow integration and digital documentation

for optimized pre- and post-operative evaluation.

The convenient integration of ZEISS VISULAS green and SLT into the ZEISS Glaucoma Workflow provides high levels of flexibility and efficiency – from beginning to end. Review your patient's data prior to exam and treatment, perform SLT, then have the ability to review all information in one place post treatment thanks to connectivity to the FORUM® data management solution from ZEISS².

Your diagnostic data and laser treatment reports can be viewed side by side for optimized pre- and post-operative evaluation – directly at your VISULAS workstation or from any location within your clinic. What's more, you can record images and videos with the optional camera system and then add them to the patient record. With our fully integrated data management solution, you can experience paperless treatment documentation and increase your workflow efficiency.



2
¹ In combination with ZEISS LSL green comfort laser slit lamp
² Connectivity to ZEISS FORUM requires an optional license

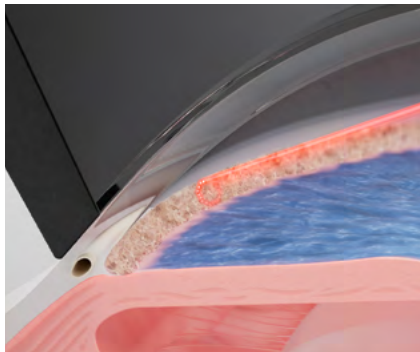
Safe and effective primary open-angle glaucoma therapy

for lowering intraocular pressure.

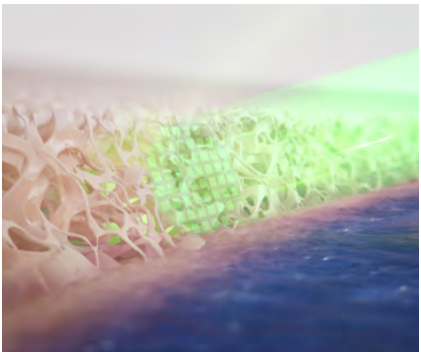
ZEISS Selective Laser Trabeculoplasty (SLT) is based on the photothermolysis effect, resulting in the effective lowering of the intraocular pressure. The short pulses only interact with the melanin-containing trabecular meshwork cells, leading to intraocular pressure lowering.



Simplified titration process
The selection of laser energy is based on the pigmentation of the patient’s trabecular meshwork. With ZEISS VISULAS green laser technology, no cavitation bubbles are visible and the titration process is simplified. This saves time and reduces unnecessary energy delivery to the patient’s eye.



Unobstructed view of the trabecular meshwork
The rotating aiming beam enables accurate positioning of the laser and improves visibility of the trabecular meshwork during treatment.

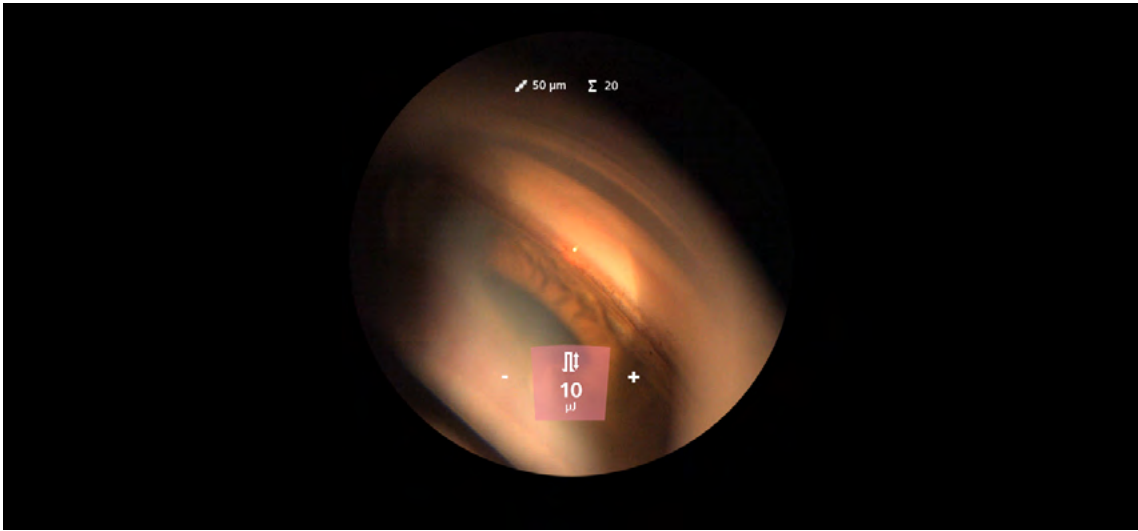


Higher homogeneity of laser energy distribution
Every ZEISS SLT laser application with a total diameter of 400 μm consists of 52 squared spots. The squared spot shape ensures a higher homogeneity of the laser energy distribution.

Comfortable and intuitive operation

to fully focus on your patient.

ZEISS VISULAS green is designed for a comfortable and intuitive operation that facilitates your daily clinical routine. The compact and modern laser workplace reduces equipment-related distraction and allows you to fully focus on your patient.



Maintain your focus
The integrated InsightView display shows all relevant treatment parameters in the eyepiece of the ZEISS laser slit lamp, improving your ability to maintain focus on your therapy session and your patient.



Enhance your control
The TouchControl center switch allows you to change important treatment parameters during laser therapy sessions directly on the laser slit lamp: one-hand focusing and laser adjustment at the same time.



Customize your workstation
The clearly arranged and intelligently designed application software is operated via the TouchControl panel for intuitive operation. Customize the workstation with an individual user profile and retrieve it to save time and increase convenience.



Technical data

ZEISS VISULAS green with SLT

SLT mode on ZEISS VISULAS green

Laser source	Frequency doubled Nd:YVO ₄ (neodymium-doped yttrium vanadate crystal)
Class	4 (IEC 60825-1)
Wavelength	532 nm
Max. laser energy	65 µJ
Applications	400 µm (every ZEISS SLT laser application with a total diameter of 400 µm consists of 52 squared spots)
Pulse duration	200 ns
Aiming beam	650 - 670 nm, rotating, max. 1 mW at cornea, adjustable brightness, class 2
Data output	PDF report to ZEISS FORUM (with ZEISS VISUCONNECT 600) or to USB drive

ZEISS VISULAS green laser console

Cooling system	Thermoelectric
Dimension	H 201 mm × W 230 mm × D 290 mm (H 79 inches × W 91 inches × D 114 inches)
Weight	≤ 8 kg (≤ 17.6 lbs)
Eligible Applications	Single spot photocoagulation Selective laser trabeculoplasty (SLT) Optional: VITE multi-spot photocoagulation

ZEISS LSL green comfort laser slit lamp

Laser beam transmission	Coaxial with light beam
Magnification	5 magnifications in steps: 5×, 8×, 12×, 20×, 32×
Slit width	Continuous: 0.0 to 14.0 mm
Slit height	In steps: 1/3/5/9/14 mm
Slit image rotation	In steps: 0°/±45°/90°
Weight	≤ 12.5 kg (≤ 27.6 lbs)
Optional accessories	SL Imaging Solution (camera and software) SL Workstation (panel PC) Instrument table Applanation tonometer AT 030 Co-observation tube Laser safety goggles Laser warning light ZEISS FORUM license

Effective laser therapies tailored to your needs.



ZEISS VISULAS therapeutic lasers

Photocoagulation, photodisruption
and selective laser trabeculoplasty



Seeing beyond

The next generation of ZEISS therapeutic lasers

built on decades of expertise.

ZEISS has a long-standing commitment to advancing diagnostic and therapeutic laser technology and support clinicians to enhance people's quality of life through preservation of vision. Drawing from expertise in optics and laser technology and long-term collaborations with ophthalmologists around the world, the ZEISS VISULAS portfolio provides advanced capabilities for ensuring safe and effective treatment, promoting operator comfort, and optimizing practice workflow.

Learn how our specialized solutions help you overcome the challenges presented in retina, glaucoma and secondary cataract diseases.



Workflow integration and innovative features
to speed up your procedures



Specialized therapeutic laser workstations
tailored to your needs



High-quality ZEISS laser slit lamp
and wide range of accessories

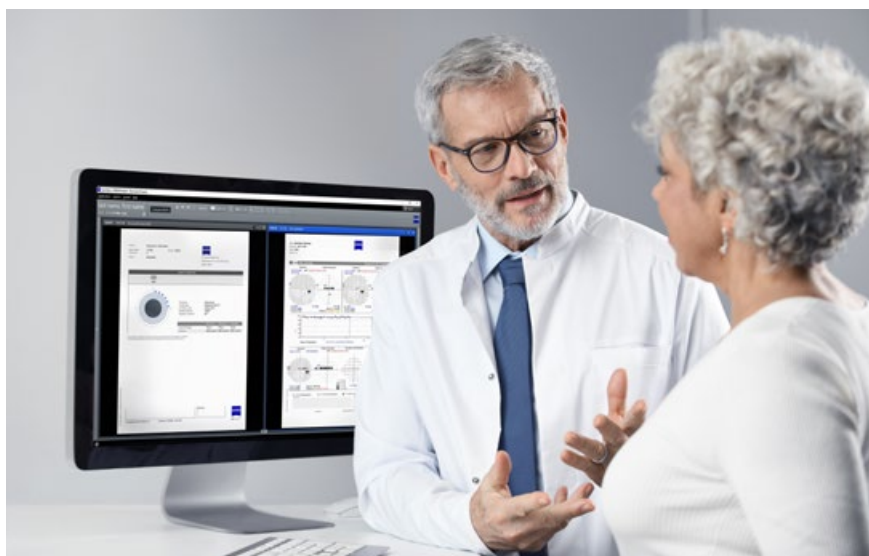
ZEISS VISULAS therapeutic lasers are part of the ZEISS Workflows, which enable direct display of diagnostic data and treatment reports at your workstation through its connectivity with ZEISS FORUM.¹



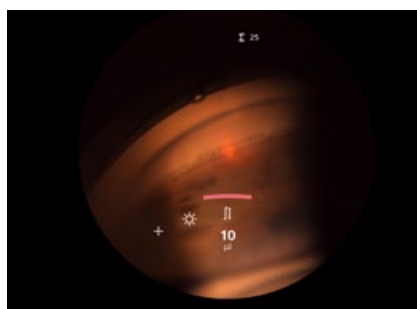
Workflow integration and advanced features

to speed up your procedures.

One of the key benefits of ZEISS VISULAS therapeutic lasers is the connection to the FORUM[®] data management solution¹ from ZEISS. This allows you to seamlessly integrate laser therapy into your clinical workflow ensuring high levels of flexibility and efficiency throughout the entire process. You will be able to access and review your patients' data prior to examination, treatment, and follow-up all in one place. This can be valuable in making quick decisions regarding your patients' care.



Create digital laser treatment reports through the TouchControl panel. Your diagnostic data and laser treatment reports can be viewed side-by-side for easy pre- and post-operative evaluation.¹



Intuitive operation

The application software is designed in a clear and intelligent manner, and can be operated through the TouchControl panel for easy and intuitive navigation. Customize user settings with individual profiles to save time and increase convenience.

InsightView display and TouchControl center switch

The integrated InsightView[®] display shows all relevant treatment parameters in the eyepiece of the ZEISS laser slit lamp. Parameter values can be adjusted directly at the slit lamp without taking your eyes off the ocular.

ZEISS laser slit lamp with premium optics

Each laser slit lamp offers a convenient treatment experience with LED illumination, ClearView[®] safety filter, and integrated InsightView² display.

² InsightView display is included in VISULAS combi and VISULAS green comfort and is an option for VISULAS green classic and VISULAS yag.

Therapeutic laser workstations

tailored to your needs.



Retina

		VISULAS green comfort	VISULAS green classic
Applications	Retinal Photocoagulation (single spot)	√	√
	Retinal Photocoagulation (VITE multi spot)	optional	–
	Iridotomy	–	–
	Selective Laser Trabeculoplasty (SLT)	optional	–
	Posterior Capsulotomy	–	–
Applicators	InsightView	√	optional
	LIO	optional	optional
	Endoprobe	optional	optional
Options	ZEISS SL Imaging Solution	optional	optional
	Dual port laser console	optional	optional
	Read more about details, options and accessories	page 6	page 6



Cataract

VISULAS yag

–
–
√
–
√
optional
–
–
optional
–
page 8



Glaucoma

VISULAS green with SLT

√
optional
–
√
–
√
optional
optional
optional
optional
page 10



Multi-workflow

VISULAS combi

yag/green	yag/slt	yag/slt/green
√	optional	√
√	optional ¹	√
√	√	√
optional	√	√
√	√	√
√	√	√
optional	optional ¹	optional
optional	optional ¹	optional
optional	optional	optional
√	√	√
page 12	page 12	page 12

¹ Requires photocoagulation license

Efficient photocoagulation for your retina workflow

ZEISS VISULAS green

The photocoagulator VISULAS® green from ZEISS turns daily clinical routine into a more convenient and efficient treatment experience.



Accurate operation

thanks to the premium ZEISS lasers slit lamp image quality



Optimized illumination of treatment area

due to the coaxial illumination with the laser treatment beam



Speed up treatment and reduce pain perception

with the VITE multi-spot photocoagulation option

One of the key benefits of ZEISS VISULAS green is the connection to the FORUM¹ data management solution. This allows you to seamlessly integrate laser therapy into the ZEISS Retina Workflow ensuring high level of flexibility and efficiency throughout the entire process. You will be able to access and review your patient's data prior to examination, treatment, and follow-up all in one place.

Plan

Treat

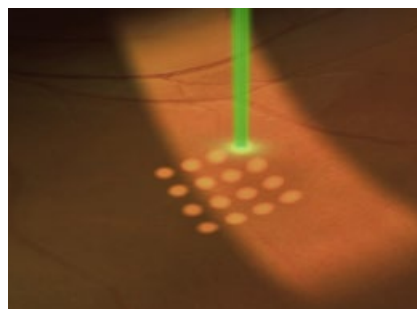




*InsightView² display:
monitor important
treatment settings
directly in the eyepiece.*

Digital treatment reports and documentation in ZEISS FORUM

Access diagnostic reports and images via FORUM from ZEISS to prepare for treatment or for consultations with your patients, their relatives or with peers.¹



ZEISS laser slit lamp

The premium optics of the LED laser slit lamps ensure high visibility of the treatment area. The true-to-color physician's safety ClearView filter remains active to ensure a safe treatment for the operator. Experience navigating with fingertip precision thanks to the electronic micromanipulator.

Coaxial illumination

Aiming beam and treatment beams remain coaxial in the center of the illumination for comfortable and safe treatment even in the periphery.

VITE multi-spot photocoagulation

The ZEISS VISULAS green comfort model, with VITE option, includes multi-spot photocoagulation to help reduce treatment times. The short multi-spot pulse durations create smaller lesions to decrease the pain perception.

“The slit lamp’s illumination area always moves precisely, together with the target beam. I never experienced this using my previous laser.”

Dr. Matthias Jütte, Head Surgeon, Augenärzte
OP-Zentrum, Jena, Germany

² InsightView[®] display is included in VISULAS combi and VISULAS green comfort and is an option for VISULAS green classic and VISULAS yag.

Precise capsulotomy laser for your cataract workflow

ZEISS VISULAS yag

The VISULAS yag laser from ZEISS is a modern and compact laser workstation for safe and effective photodisruption. This application-based laser allows you to perform posterior capsulotomy for a high variety of IOLs and for iridotomy.



High-precision treatment

using the super gaussian laser beam profile



Motorized focus shift adjustment

based on application selected



Accurate focusing in a high variety of IOL conditions

based on the four-point aiming beam system

The ZEISS VISULAS yag workstation can be conveniently integrated into the ZEISS Cataract Workflow. ZEISS VISULAS yag provides you with a premium option to treat posterior capsulotomy opacification.¹

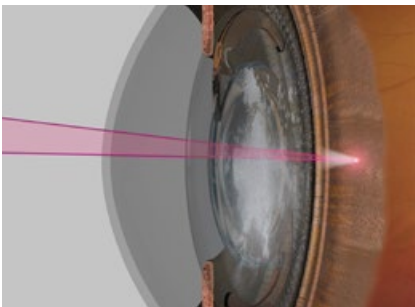




Digital treatment reports and documentation in ZEISS FORUM.¹



Image after posterior capsulotomy treatment with VISULAS yag.



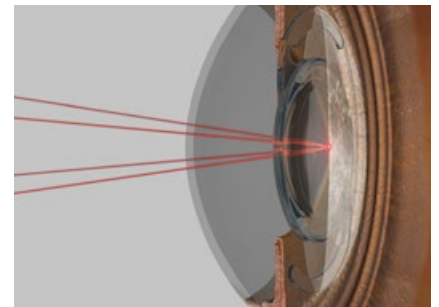
High-precision super gaussian beam

The high-precision super gaussian beam focuses the optimal amount of laser energy onto the point of treatment. This allows using a minimum amount of laser energy for a safe procedure.



Application-based motorized focus shift

Based on the selected application, the automated focus shift sets the focal point of the treatment beam in front of, behind or directly at the focal point of the aiming beam.



Precise focusing in a high variety of IOL conditions

The four-point aiming beam merges into one point at the laser focal plane, enabling high-precision focusing. If a multi-focal IOL is implanted, it is possible to reduce to a two-point aiming beam.

“ZEISS VISULAS yag lasers are highly reliable and comfortable photodisruption lasers. The new VISULAS yag provides an easy-to-use interface for efficient, intuitive and workflow-oriented capsulotomy and iridotomy treatment. The precise targeting with the application-based selection of the focus shift is a great tool, as are the four- and two-point aiming beams. It fits also to premium IOLs like EDoFs and MIOLs.”

Dr. Andreas F. Borkenstein, Privatklinik Kreuzschwestern
Graz, Borkenstein & Borkenstein, private practice

Effective and safe IOP reduction in your glaucoma workflow

ZEISS VISULAS green with SLT

Maximize your glaucoma workflow with the ZEISS Selective Laser Trabeculoplasty (SLT) application for the VISULAS green therapeutic laser from ZEISS. Based on the selective photothermolysis effect, ZEISS SLT is a safe and effective therapy for lowering the intraocular pressure within the treatment of primary open-angle glaucoma.



Simplified titration process

laser energy is based on the pigmentation of the patient's trabecular meshwork



Unobstructed view of the targeted tissue

thanks to the rotating aiming beam



High homogeneity of laser energy distribution

due to the 52 squared spot shape profile

The convenient integration of the compact ZEISS VISULAS green with SLT workstation into the ZEISS Glaucoma Workflow provides high levels of flexibility and efficiency. Review your patient's data prior to examination and treatment, then perform SLT. You can also review all information in one place post-treatment thanks to connectivity to the FORUM data management solution from ZEISS.¹

Plan

Treat





Workflow integration and digital documentation¹ for optimized pre- and post-operative evaluation.

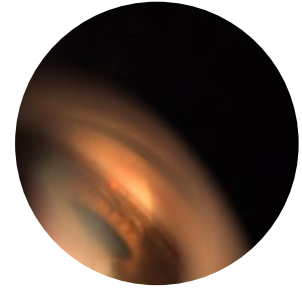
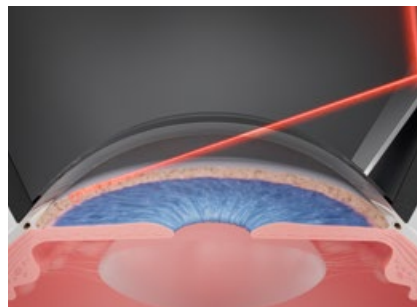


Image during SLT treatment captured with SL Imaging Solution² from ZEISS.



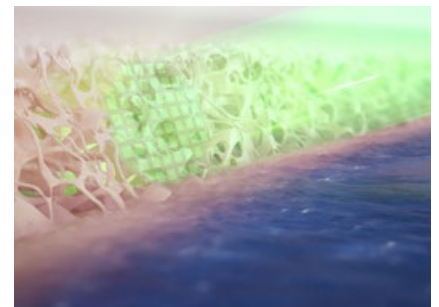
Simplified titration process

The selection of laser energy is based on the pigmentation of the patient's trabecular meshwork. With ZEISS VISULAS green laser technology, no cavitation bubbles are visible and the titration process is simplified. This saves time and limits unnecessary energy delivery to the patient's eye.



Unobstructed view of the targeted trabecular meshwork

The rotating aiming beam enables accurate positioning of the laser and improves visibility of the trabecular meshwork during treatment.



High homogeneity of laser energy distribution

Every ZEISS SLT laser application with a total diameter of 400 μm consists of 52 squared spots. The squared spot shape ensures homogeneity of the laser energy distribution.

“In my opinion, ZEISS SLT is the next step in laser treatment for open angle glaucoma.”

Dr. Karsten Klabe, Head Surgeon, Breyer, Kaymak & Klabe Augenchirurgie, Düsseldorf, Germany

² ZEISS SL Imaging Solution is optional

The compact workstation for your retina, cataract and glaucoma workflows

ZEISS VISULAS combi

Ideal for a wide variety of applications, the ZEISS VISULAS combi is the first fully integrated therapeutic laser workstation offering SLT, photodisruption and photocoagulation technology without compromise. The laser slit lamp is the joint applicator for various applications. No need for time-consuming changes or relocation of the patient.



Customizable application modules
to tailor the workstation to your needs



All VISULAS therapeutic laser applications
share the same look and feel



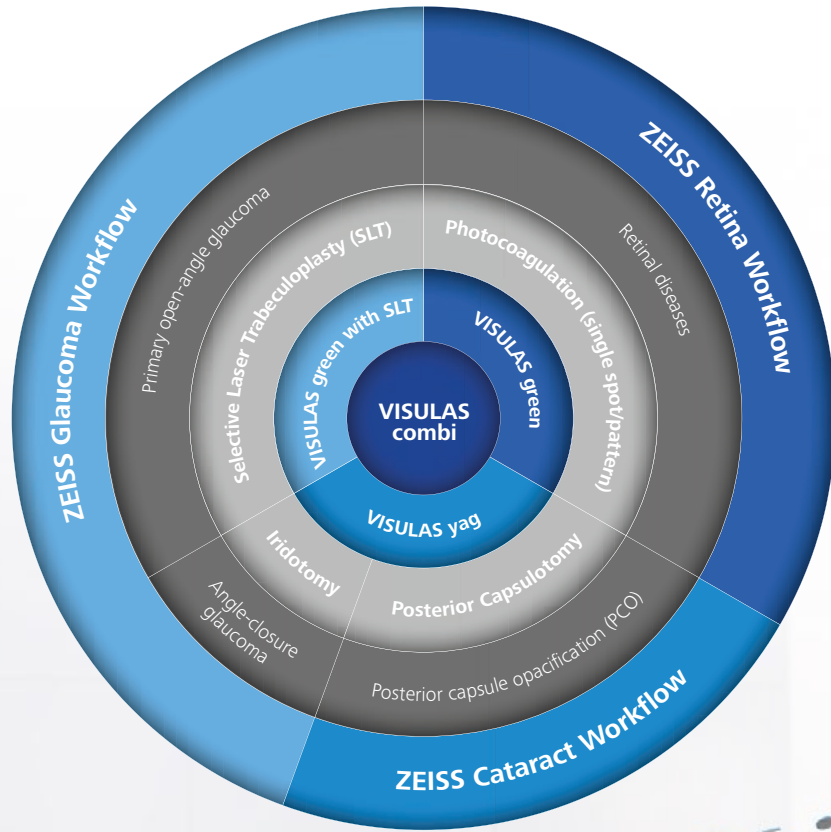
All VISULAS features and benefits without compromise
in one space-saving workstation

The integration of ZEISS VISULAS combi workstation into the ZEISS Workflows provides high level of flexibility and efficiency.¹



Customizable modules

Mix and match three different modules based on the treatments you offer to your patients. The possibility to activate modules via software license makes the VISULAS combi a future-proof investment that can enhance your treatment options at anytime.



All the benefits in one space-saving workstation

The ZEISS VISULAS combi offers the possibility to have the features and benefits of VISULAS green, VISULAS green with SLT and VISULAS yag in one space-saving workstation.

High quality applicators and a wide range of optional components.

A wide range of applicators, accessories and optional components is available to complete and complement every individual setup.



ZEISS laser slit lamps with InsightView¹ display

High-quality LED laser slit lamps from ZEISS support fast, comfortable therapy. The premium optics enable high visibility of the treatment area.

The appropriate true-to-color physician's safety ClearView safety filter remains active to ensure a safe treatment for the operator. With the ability to monitor important treatment settings directly in the eyepiece, the InsightView display allows you to stay focused on your patient's therapy session.



Endoprobes

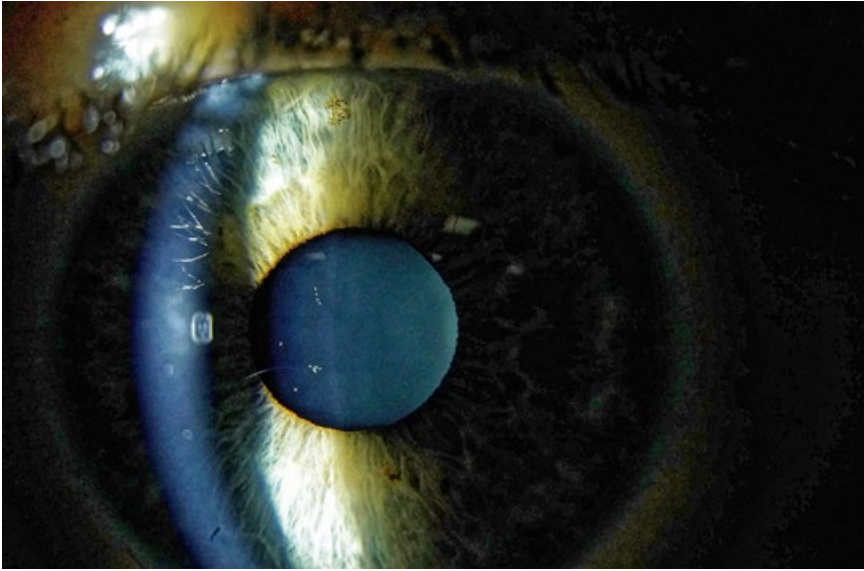
- Endoprobe 25 gauge, straight
- Endoprobe 23 gauge, straight
- Endoprobe 23 gauge, angled
- Endoprobe 20 gauge, angled
- Endoprobe 20 gauge, straight



Laser indirect ophthalmoscope

LIO VISULAS green

- Weight of < 800 g (including optical fiber, without charging dock)
- Adjustable pupil distance of 48 to 76 mm
- Variety of ophthalmoscope filters including empty, red-free, blue and diffuse



ZEISS SL Imaging Solution

The smooth integration of the camera and laser slit lamp enable clear image and video capture that magnifies tiny details. One-click data export makes it convenient to add reports, images and videos to the digital patient record, streamlining your daily workflow.

- 18 megapixel camera for up to 18 MP resolution (4,912 × 3,680 pixels)
- Workflow-optimized software design
- Export images to ZEISS FORUM and DICOM systems
- JPEG and MP4 export to hard drive



Foot switch

- For convenient laser application
- Available models: standard foot switch and TouchControl foot switch



Applanation tonometer AT 030

The ZEISS AT 030 applanation tonometer allows precise measurement of intraocular pressure. It is mounted on the laser slit lamp for easy access and reading.

- Measuring body: 2 prisms for image splitting
- Measuring range: 0 to 78.4 mN



Arm rest

Support for your arm during laser therapy.

- Dimension: 180 × 120 × 70 mm
- Weight: 2.06 kg



CLARUS 700 from ZEISS

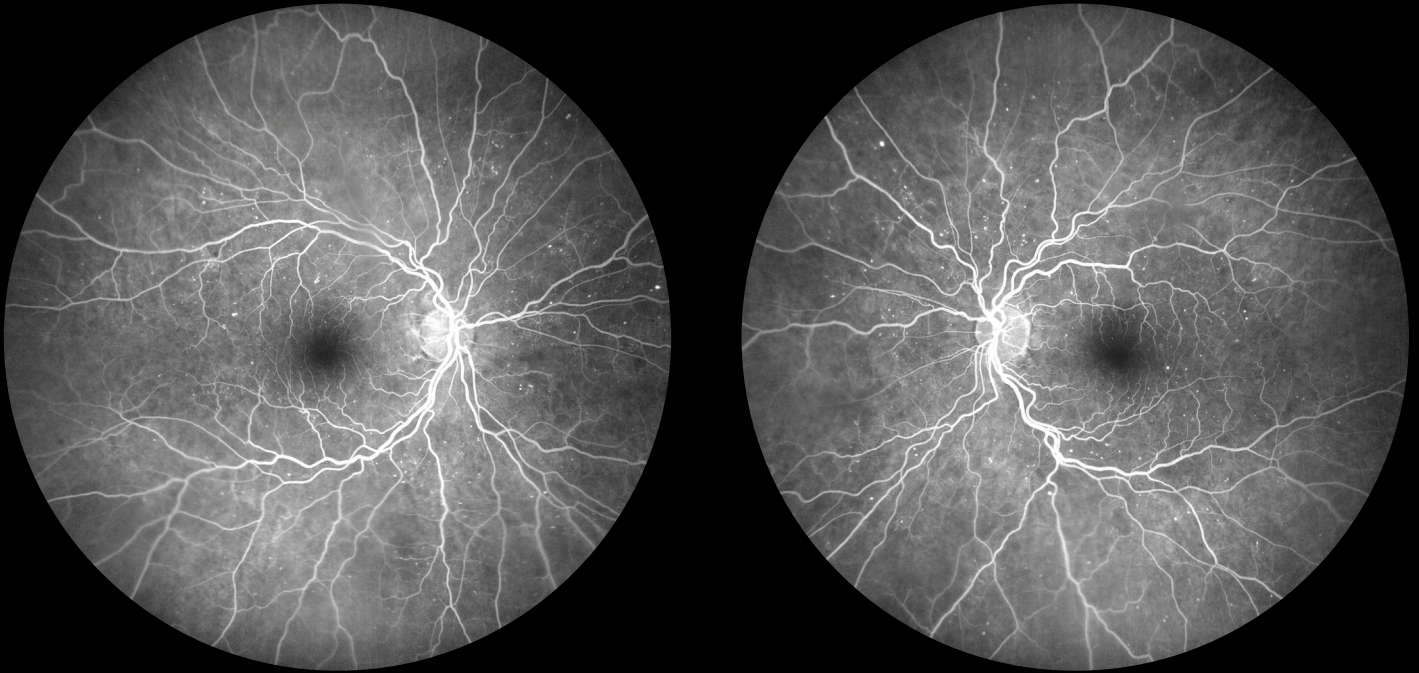
HD Ultra-widefield Fundus Imaging with Fluorescein Angiography



Seeing beyond

Expanding insights with ultra-wide imaging.

ZEISS CLARUS 700



Fluorescein angiograms with non-proliferative diabetic retinopathy, illustrating localized dilations of retinal capillaries (microaneurysms) and areas of peripheral non-perfusion.

Unsurpassed image quality with fluorescein angiography.

CLARUS® 700 from ZEISS allows you to capture clear and accurate images from the macula to the far periphery, all with a single instrument that combines:

- Ultra-wide field of view
- True Color imaging from broad spectrum LED scans
- Exceptional resolution
- Fluorescein Angiography (FA)
- Advanced imaging features

ZEISS CLARUS 700 is a truly comprehensive imaging system developed for eye care specialists, helping deliver state-of-the-art care to their patients.



Montage fluorescein angiography with non-proliferative diabetic retinopathy, presenting the finest details at the foveal avascular zone and offering an exceptional rendering of the smallest microaneurysms across the image—from the fovea to the periphery.

COLOR

Capture True Color to assist with differential diagnosis.

CLARITY

See high-resolution details from the posterior pole to the periphery.

COMPLETE

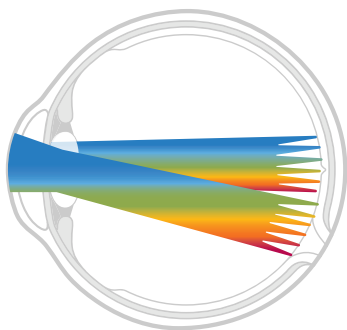
Comprehensive in every way to maximize workflow efficiency.



Now, ultra-wide fundus imaging with True Color and unmatched clarity. In one complete system.

True Color Imaging

Powered by **Broad Line Technology**, the ZEISS CLARUS 700 captures images that closely resemble the coloration of the fundus as seen during clinical examination.



Unlike CSLO (confocal scanning laser), Broad Line Technology enables the combination of ultra-wide fields of view and a full range of retinal imaging modes to generate images with high dynamic range, contrast, resolution and natural colors through sequential illumination of broad-spectrum red, green and blue light emitting diodes.¹

¹ Data on file.

A Comprehensive Imaging System

Now you can manage all fundus imaging modalities without compromising on clarity—viewing high resolution in ultra-widefield.

- Image from the superior and inferior retina with less peripheral distortion
- Capture clear detail of vessel structure from early to late phase of fluorescein angiography
- **AutoBright** control automatically optimizes the angiogram series preserving change in signal

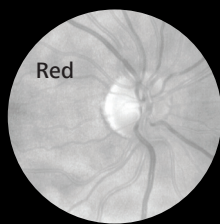
Combining ultra-widefield imaging with True Color, excellent clarity and a full suite of imaging modalities, ZEISS CLARUS 700 empowers you with features and capabilities that maximize workflow efficiency.

- Quickly and easily compare images over time and between image capture modes
- Provide a comfortable patient experience that ensures image integrity, with ergonomic chin and head rests to swivel motion and live IR preview

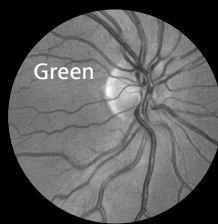
Complete suite of imaging modalities



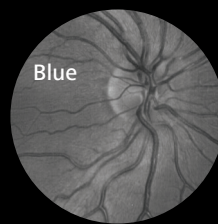
True Color with RGB Channel Separation



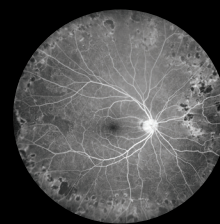
Red channel: reveals the choroid in more detail. This may be helpful in visualizing choroidal lesions such as nevi or tumors.



Green channel: provides excellent contrast of the retina, especially of vasculature and hemorrhages.



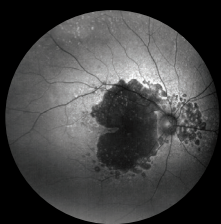
Blue channel: increases visibility of anterior retinal layers, allowing easier visualization of retinal nerve fiber layers defects and epiretinal membranes.



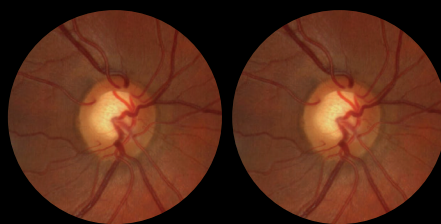
Fluorescein Angiography of proliferative diabetic retinopathy



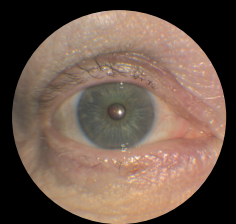
FAF-Green image of dry age-related macular degeneration



FAF-Blue image of geographic atrophy



Stereo image pairs can be captured for stereoscopic evaluation of the fundus.



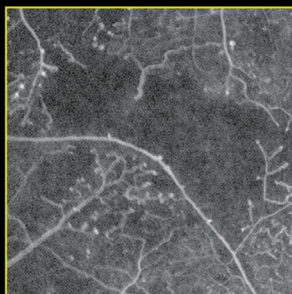
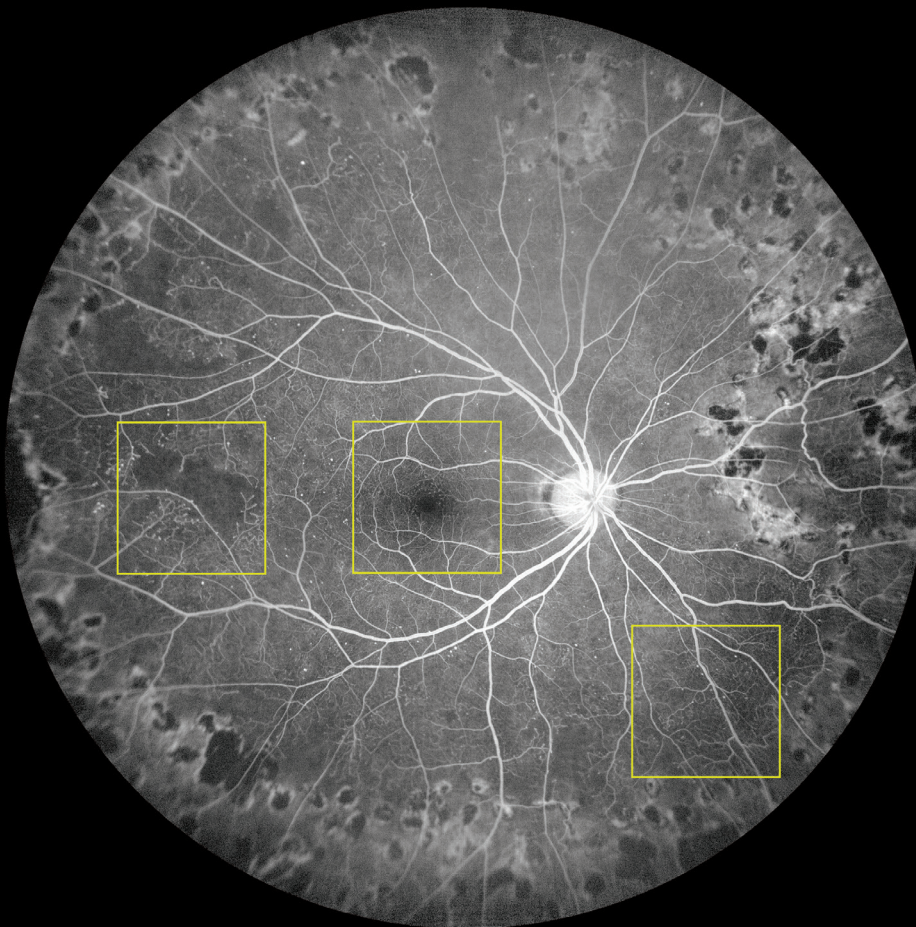
External Eye

True advancement in disease management.

By allowing you to visualize to the far periphery—and in multiple imaging modalities—ZEISS CLARUS 700 can document indications of ocular disease that occur in various regions of the eye and present differently depending on the imaging modality.

Proliferative Diabetic Retinopathy

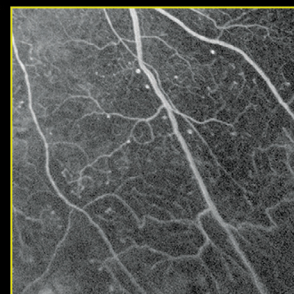
Early phase fluorescein angiogram: Visualize macular ischemia, capillary nonperfusion and intraretinal microvascular abnormalities in excellent detail with high-resolution imaging.



Capillary nonperfusion

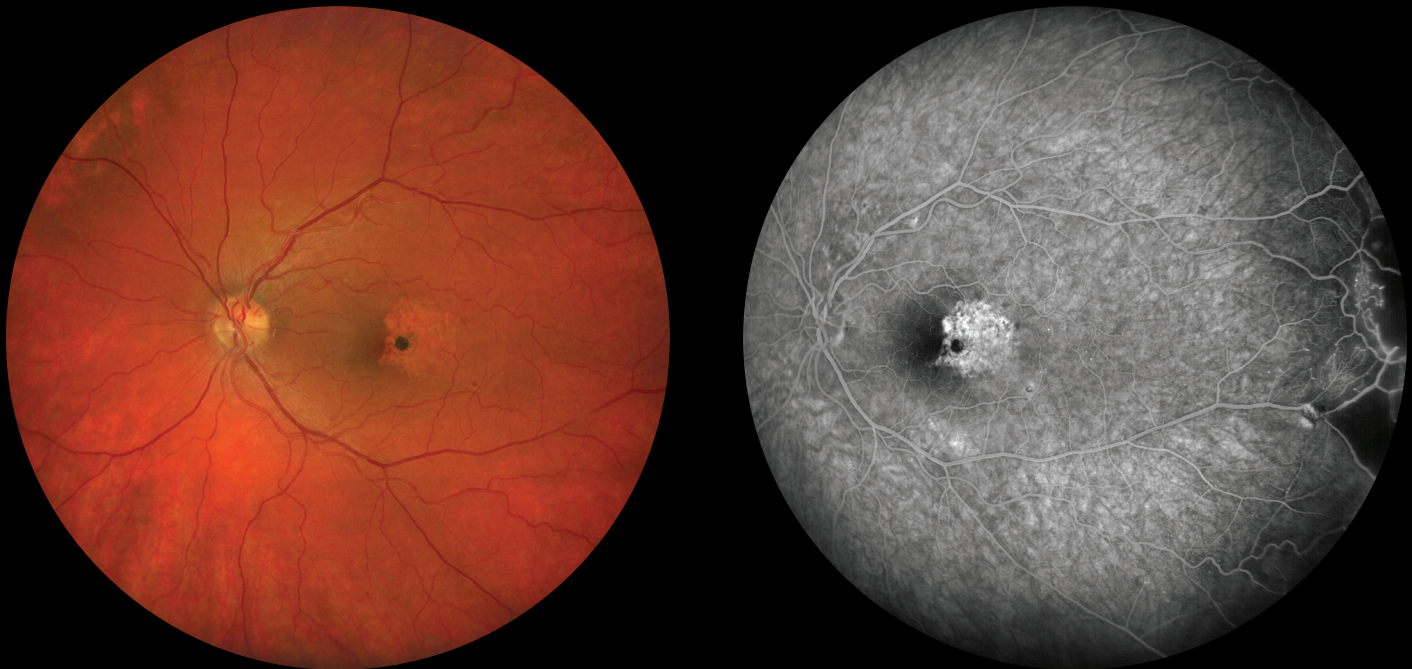


Macular ischemia



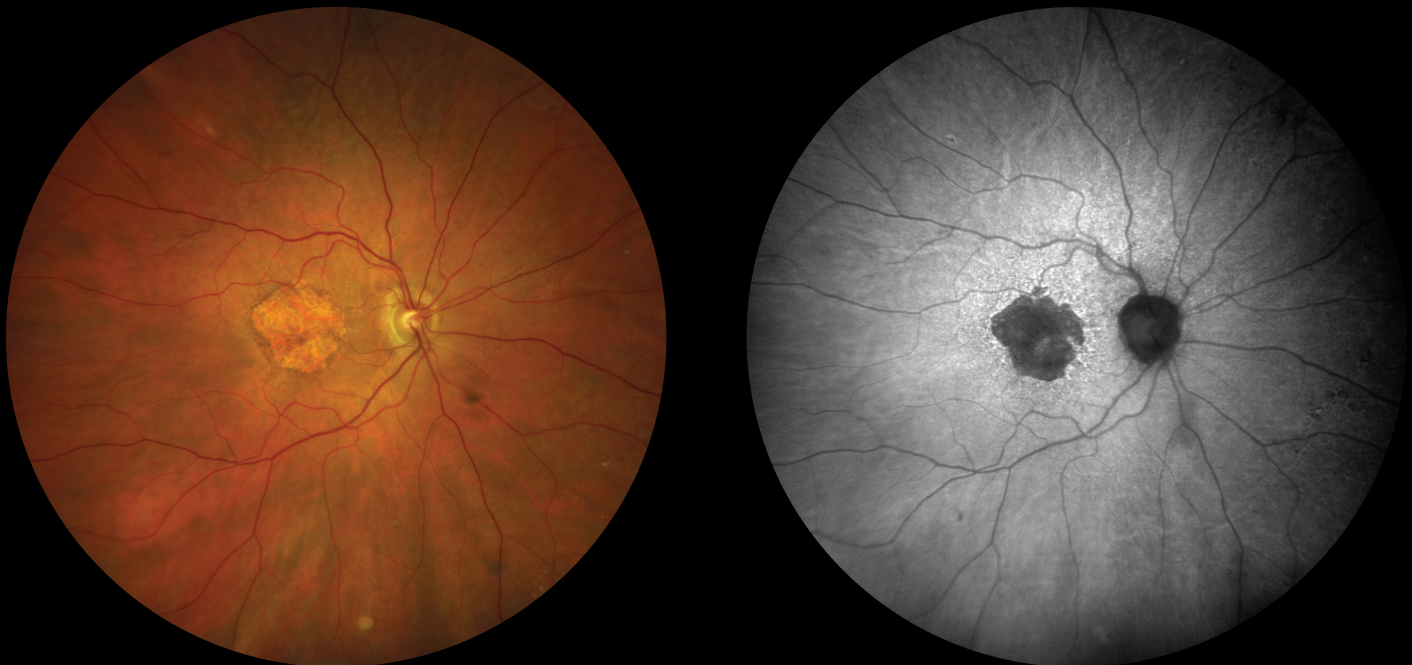
Intraretinal microvascular abnormalities

Macular Telangiectasia

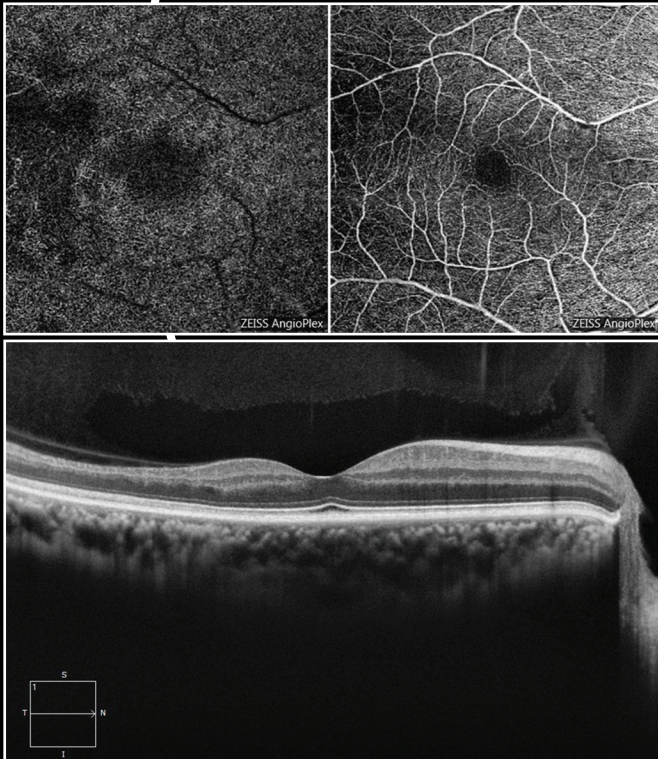
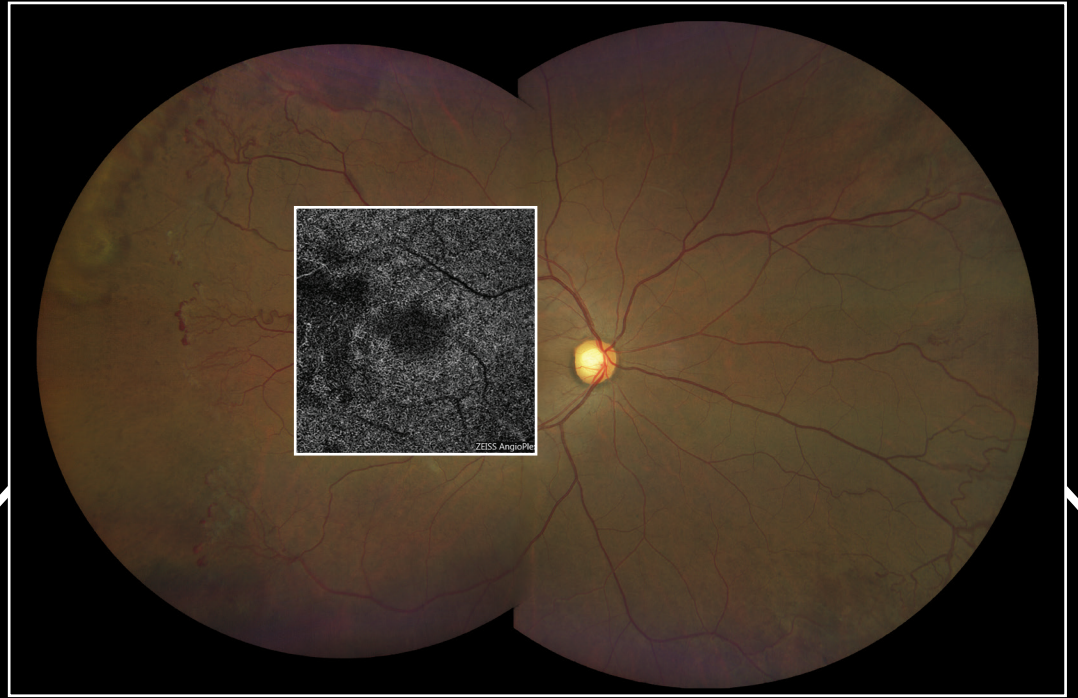


Mid-phase fluorescein angiography image of an eye with macular telangiectasia. Wide-field fluorescein angiography captures leakage in the macula, its associated microaneurysms and non-perfusion in the far temporal periphery.

Dry AMD



FAF-Green image of an eye with central geographic atrophy in advanced Dry AMD, highlighting the loss of retinal pigment epithelium at the macula.



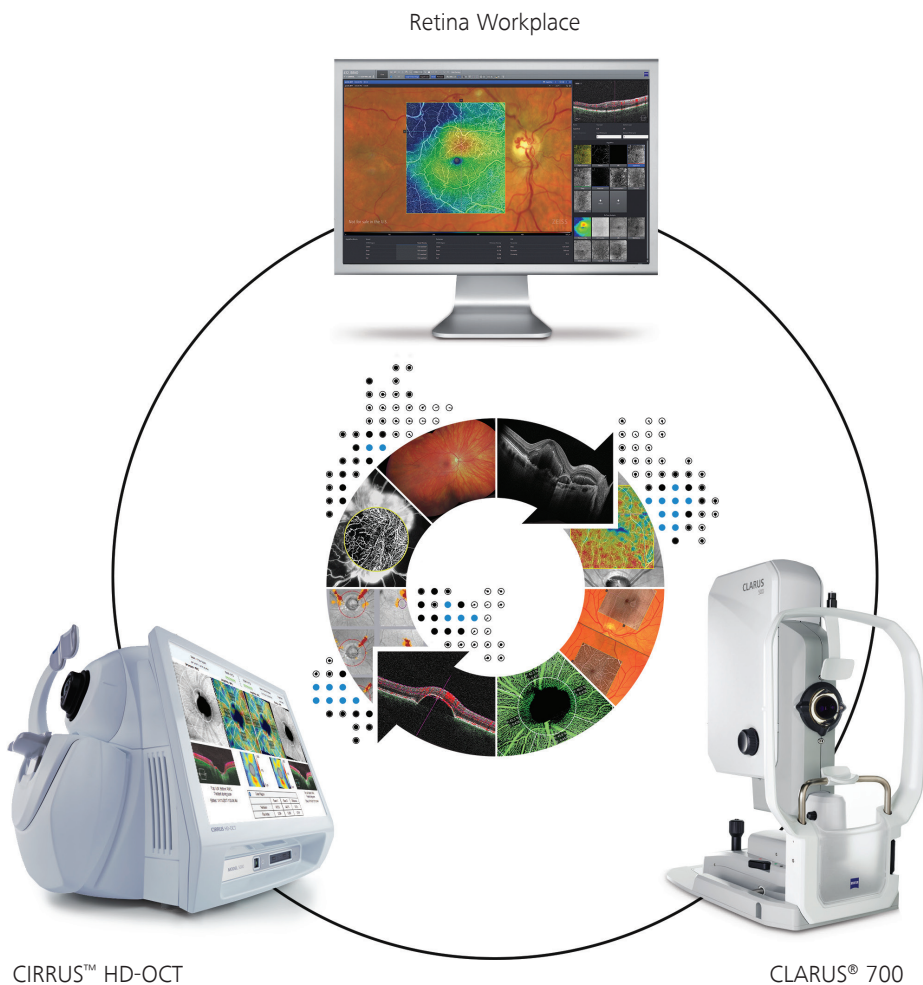
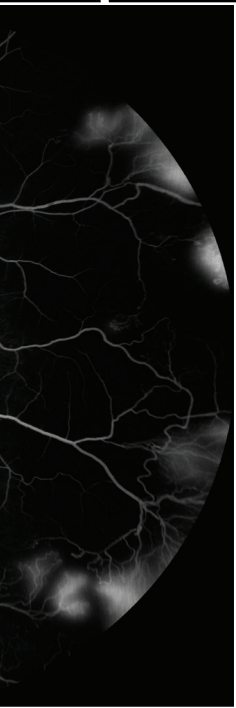
ZEISS CLARUS 700 ultra-wide fluorescein angiography shows you the extensive sea-fan neovascularization and retinal ischemia in the peripheral retina in an eye with proliferative sickle cell retinopathy.

Integrated Diagnostic Imaging platform from ZEISS.

See the whole picture.

Key to meeting current challenges in eye care is the ability to capture, integrate and transform high-quality data into meaningful analyses that enhance practice workflow and improve patient care.

The ZEISS Integrated Diagnostic Imaging combines exam data from gold-standard devices like CLARUS ultra-widefield fundus imaging and CIRRUS™ HD-OCT from ZEISS and presents critical information from multiple sources into a single integrated point-of-view for more efficient and insightful treatment decisions.



Advanced features to help you capture your best images.

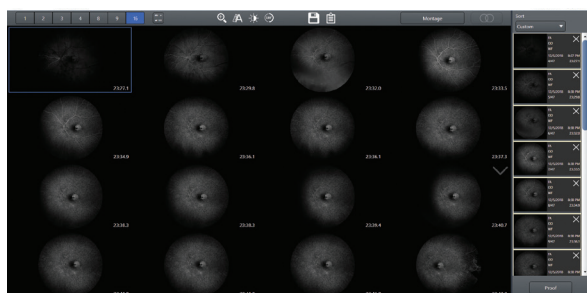
PrecisionFocus

Quickly see the details in regions of interest by selecting where to optimize focus, without losing the macula focal point.

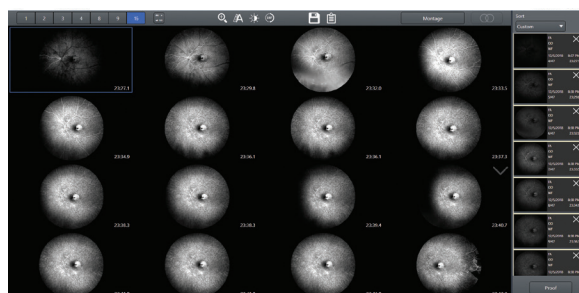


AutoBright

Spend time analyzing images rather than adjusting them. ZEISS CLARUS 700 automatically optimizes the brightness of the image sequence throughout the angiogram, while still preserving the change in signal. And with the extremely large dynamic range, you'll never be at risk of saturating the image.



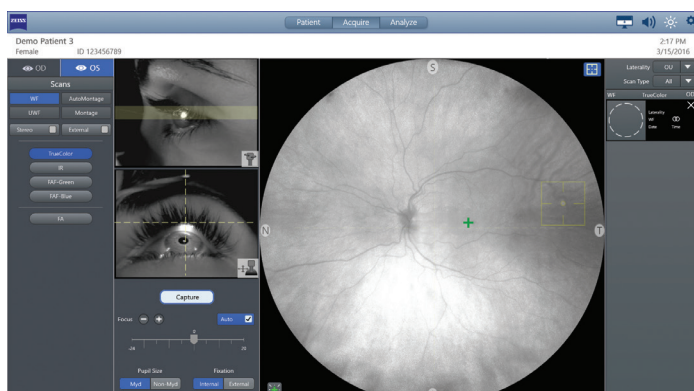
Original



AutoBright

GazePoint

Find the patient's gaze angle quickly and accurately. CLARUS 700 uses AI to automatically find the optic nerve head and accurately derive the patient's gaze rather than relying on internal fixation.



Technical Specifications

CLARUS 700 from ZEISS

Parameters

Imaging Modes:

- True Color (with Red, Green and Blue channel separation)
- Fluorescein Angiography
- Autofluorescence-Green
- Autofluorescence-Blue
- External eye image (ocular surface)
- Stereo

Field of View (measured from the center of the eye):

- Widefield (one image) 133°
- Ultra-widefield (two images) 200°
- Montage (up to six images) up to 267°

Resolution:

- Optical 7.3 µm

Minimum Pupil Diameter:

2.5 mm

Working Distance:

25 mm (patient's eye to front lens)

Compensation for ametropia:

- 24 D to + 20 D continuous

Light Sources:

- Red LED 585 - 640 nm
- Green LED 500 - 585 nm
- Blue LED 435 - 500 nm
- Infrared laser diode 785 nm

Automatic Operations:

- Auto-focus Auto Montage
- Auto-gain Auto-laterality

Aquisition Speed:

- Live IR Preview 10 frames/second
- Image Capture ≤ 0.2 seconds

Instrument Specifications

Acquisition Device Weight:

~23.6 kg

Acquisition Device Dimensions (W x D x H):

362 mm x 546 mm x 676 mm

Instrument Table:

- Description Wheelchair accessible, electronic lift
- Table Dimensions (W x D x H) 916 mm x 615 mm x 711 - 925 mm
- Weight ~38 kg

Instrument Input Power:

- External Power Supply 100-240VAC, 50/60 Hz
- Electrical Class IEC 60601-1 Class I

At-Instrument Computer

Monitor:	22" Full HD MVA LCD with LED Backlight	Touch Screen:	Capacitive, Multi-Touch
Resolution:	1920 x 1080	RAM:	32GB
Processor:	Intel® 6th Generation Core i5-6500TE	Input/Output:	USB 3.0 x 4; RS-232 x 2; 1.5 kV Isolated Gigabit Ethernet Port x 2; HDMI; and DisplayPort
Hard Drive:	2 TB (minimum 200,000 images)	Operating System:	Windows 10
Dimensions (W x D x H):	21.5" (54.6 cm) x 2.5" (6.4 cm) x 13.75" (34.9 cm)		
Weight:	~ 8.5 kg	Mounting:	VESA 75/100 mm



CLARUS 500 from ZEISS
HD Ultra-widefield Fundus Imaging



Seeing beyond

Imaging ultra-wide without compromise.

ZEISS CLARUS 500

// INNOVATION
MADE BY ZEISS

Compromising image quality may leave some pathology unseen.

Signs of early disease are often subtle and can occur in the far periphery of the retina. Widefield imaging has shown to reveal more pathology than standard fields and allows for more thorough documentation and detection of peripheral retinal pathology. However, traditional fundus imaging remains the standard for macular and optic nerve diagnosis and documentation.

CLARUS™ 500 is the next generation, ultra-widefield fundus imaging system from ZEISS that provides true color and high-resolution across an ultra-wide image.

Manage your patients with confidence:

- **COLOR.** Capture True Color to aid in differential diagnosis
- **CLARITY.** See high-resolution details from the posterior pole to the periphery
- **COMFORT.** Create a comfortable patient experience that ensures image integrity



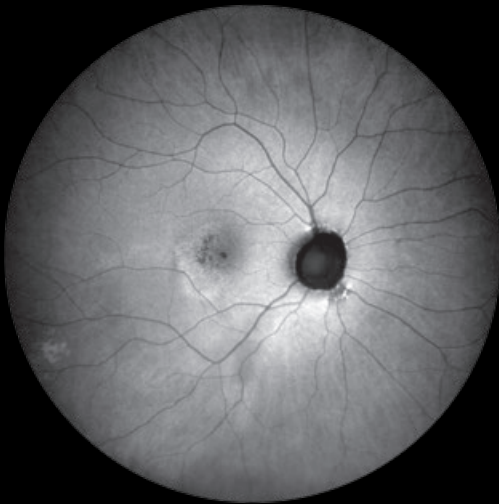
ZEISS CLARUS 500
Color. Clarity. Comfort.



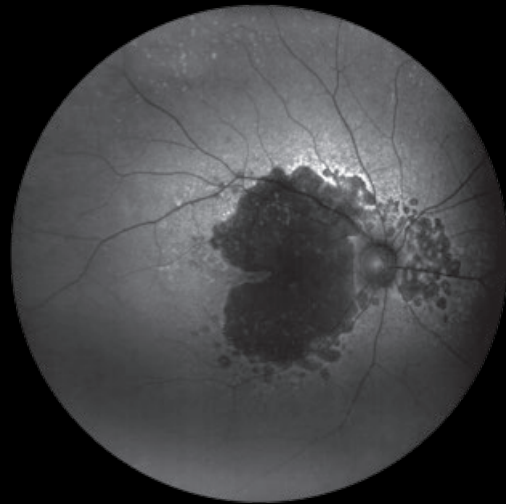
A complete suite of imaging modalities



Ultra-wide True Color image of a healthy eye

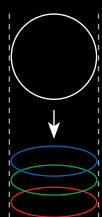


FAF-Green image of dry age-related
macular degeneration

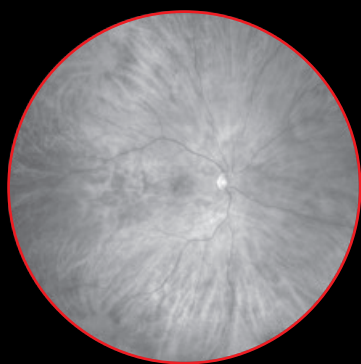


FAF-Blue image of geographic atrophy

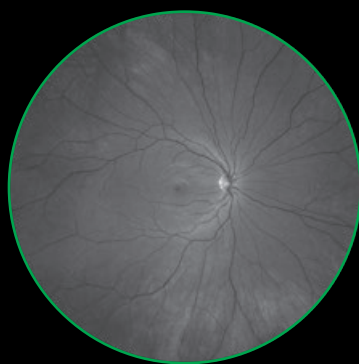
Fundus autofluorescence



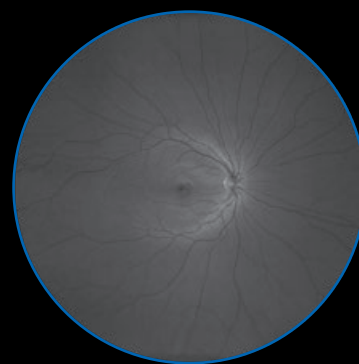
True Color



Red channel images reveal the choroid in more detail. This may be helpful in visualizing choroidal lesions such as nevi or tumors.



Green channel images provide excellent contrast of the retina, especially of vasculature and hemorrhages.



Blue channel images increase visibility of the anterior retinal layers, allowing easier visualization of retinal nerve fiber layer (RNFL) defects and epiretinal membranes.



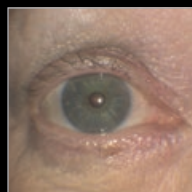
True Color Auto Montage image



Infrared images have the unique property of increased penetration through tissue, providing improved visualization of choroidal structures.



Stereo image pairs can be captured for stereoscopic evaluation of the fundus.



High-resolution external eye images allow for documentation of ocular surface and adnexa conditions such as corneal ulcers.



Color and clarity to guide your decisions.

With ZEISS CLARUS 500, meet the fundus imaging needs of a range of patients.

See images that closely resemble the coloration of the fundus as seen during clinical examination.

- Color accuracy is important for the diagnosis and documentation of ocular disease
- All True Color images can be separated into red, green and blue channel images to help enhance the visual contrast of details in certain layers of the retina

In addition, a complete fundus autofluorescence solution allows clinicians to visualize lipofuscin fluorescence in the retinal pigment epithelium (RPE), an indicator of RPE health.

Capture clear and accurate images from the macula to the far periphery.

- Leveraging ZEISS optics, CLARUS 500 captures a high-resolution ultra-widefield image down to 7 microns
- Ultra-high resolution, along with an intuitive review software, allows clinicians to track subtle changes in pathology as well as view, compare and annotate images

ZEISS CLARUS 500. The first fundus imaging system that combines true color and clarity within an ultra-wide field of view.

Designed for comfort.

Simple, stable and intuitive – create a comfortable patient experience that ensures image integrity.

By bringing the optics to the patient, CLARUS 500 from ZEISS helps create a comfortable, satisfying patient experience that provides images free of lids and lashes, and requires fewer recaptures.

Purposefully designed to optimize each patient's experience.



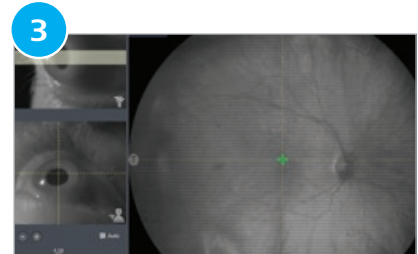
Chin rest/head rest:

A simple head and chin rest allows the patient to maintain a stable, neutral position while the operator brings the optics to the patient, facilitating a more comfortable imaging experience.



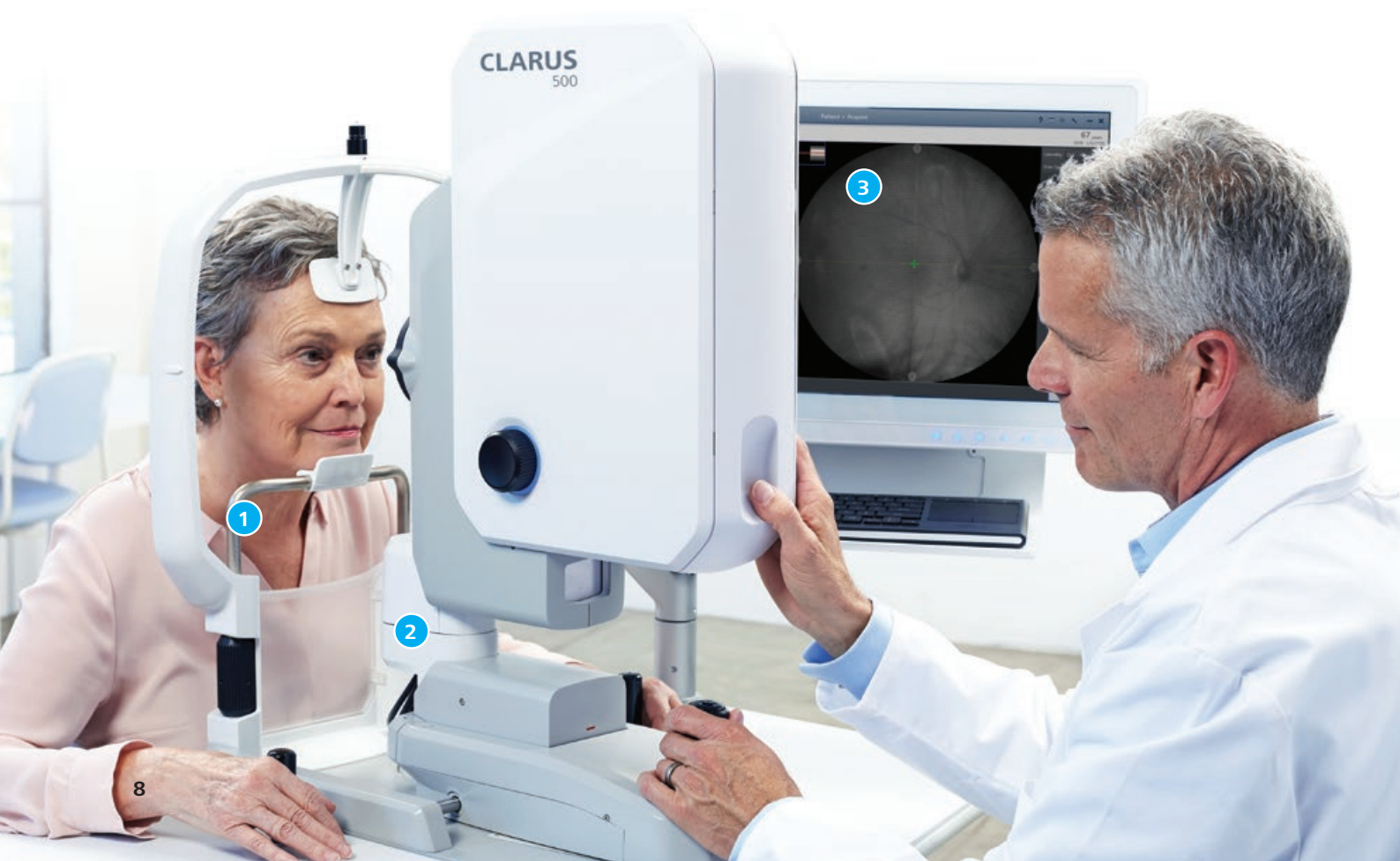
Swivel motion:

The ability to swivel the device between the right and left eye helps technicians capture a high-quality image without realigning the patient.



Live IR Preview:

Live IR Preview allows the technician to confirm image quality and screen for lid and lash, prior to imaging, ensuring fewer image recaptures.



Technical Specifications

CLARUS 500 from ZEISS

Parameters

Imaging Modes:			
■ True Color (with Red, Green and Blue channel separation and not split)		■ Infrared reflectance	
■ Autofluorescence-Green		■ External eye image (ocular surface)	
■ Autofluorescence-Blue		■ Stereo	
Field of View (measured from the center of the eye):			
■ Widefield (one image)		133°	
■ Ultra-widefield (two images)		200°	
■ Montage (up to six images)		up to 267°	
Resolution:			
■ Optical		7.3 μm	
Minimum Pupil Diameter:		2.5 mm	
Working Distance:		25 mm (patient's eye to front lens)	
Compensation for ametropia:		- 24 D to + 20 D continuous	
Light Sources:			
■ Red LED		585 - 640 nm	
■ Green LED		500 - 585 nm	
■ Blue LED		435 - 500 nm	
■ Infrared laser diode		785 nm	
Automatic Operations:		Aquisition Speed:	
■ Auto-focus	Auto Montage	■ Live IR Preview	10 frames/second
■ Auto-gain	Auto-laterality	■ Image Capture	≤ 0.2 seconds

Instrument Specifications

Acquisition Device Weight:	~23.6 kg
Acquisition Device Dimensions (W x D x H):	362 mm x 546 mm x 676 mm
Instrument Table:	
■ Description	Wheelchair accessible, electronic lift
■ Table Dimensions (W x D x H)	916 mm x 615 mm x 711 - 925 mm
■ Weight	~38 kg
Instrument Input Power:	
■ Voltage and Mains Frequency	100-240VAC, 50/60 Hz
■ Electrical Class	IEC 60601-1 Class I

At-Instrument Computer

Monitor:	22" Full HD MVA LCD with LED Backlight	Touch Screen:	Capacitive, Multi-Touch
Resolution:	1920 × 1080	RAM:	8GB
Processor:	Intel® 6th Generation Core i5-6500TE	Input/Output:	USB 3.0 x 3; RS-232 x 2; 1.5 kV Isolated Gigabit Ethernet Port x 2; HDMI; and DisplayPort
Hardrive:	1 TB (minimum 100,000 images)	Operating System:	Windows 10
Dimensions (W × D × H):		21.5" (54.6 cm) × 2.5" (6.4 cm) × 13.75" (34.9 cm)	
Weight:	~8.5 kg	Mounting:	VESA 75/100 mm



По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
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Казань (843)206-01-48
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Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

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Набережные Челны (8552)20-53-41
Нижегород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
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