



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



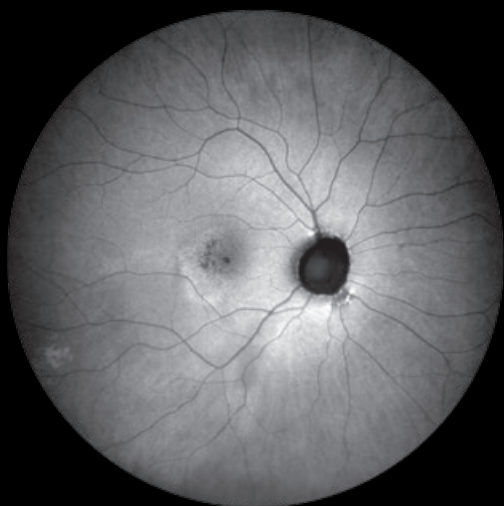
ZEISS CLARUS 500
Color. Clarity. Comfort.



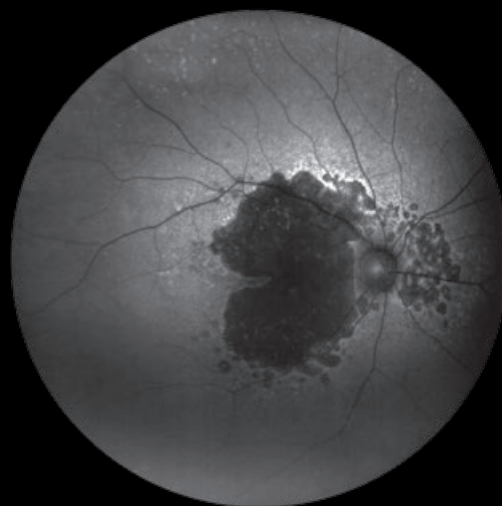
A complete suite of imaging modalities



Ultra-wide True Color image of a healthy eye

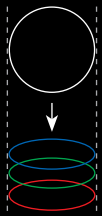


FAF-Green image of dry age-related macular degeneration

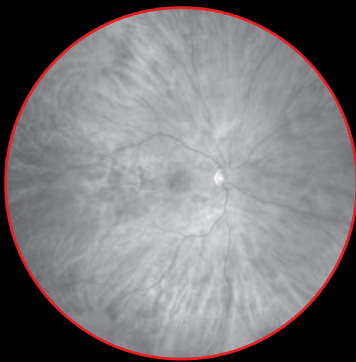


FAF-Blue image of geographic atrophy

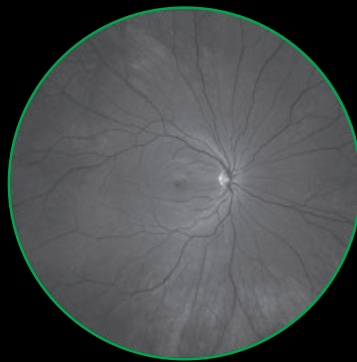
Fundus autofluorescence



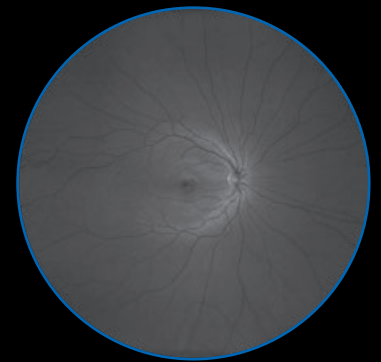
True Color



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.



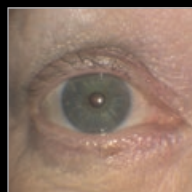
True Color Auto Montage image



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.



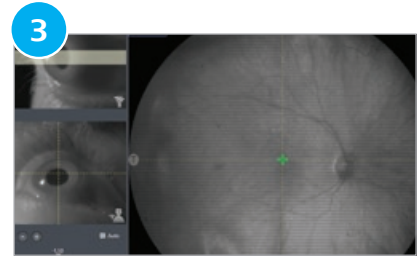
Chin rest/head rest:

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.



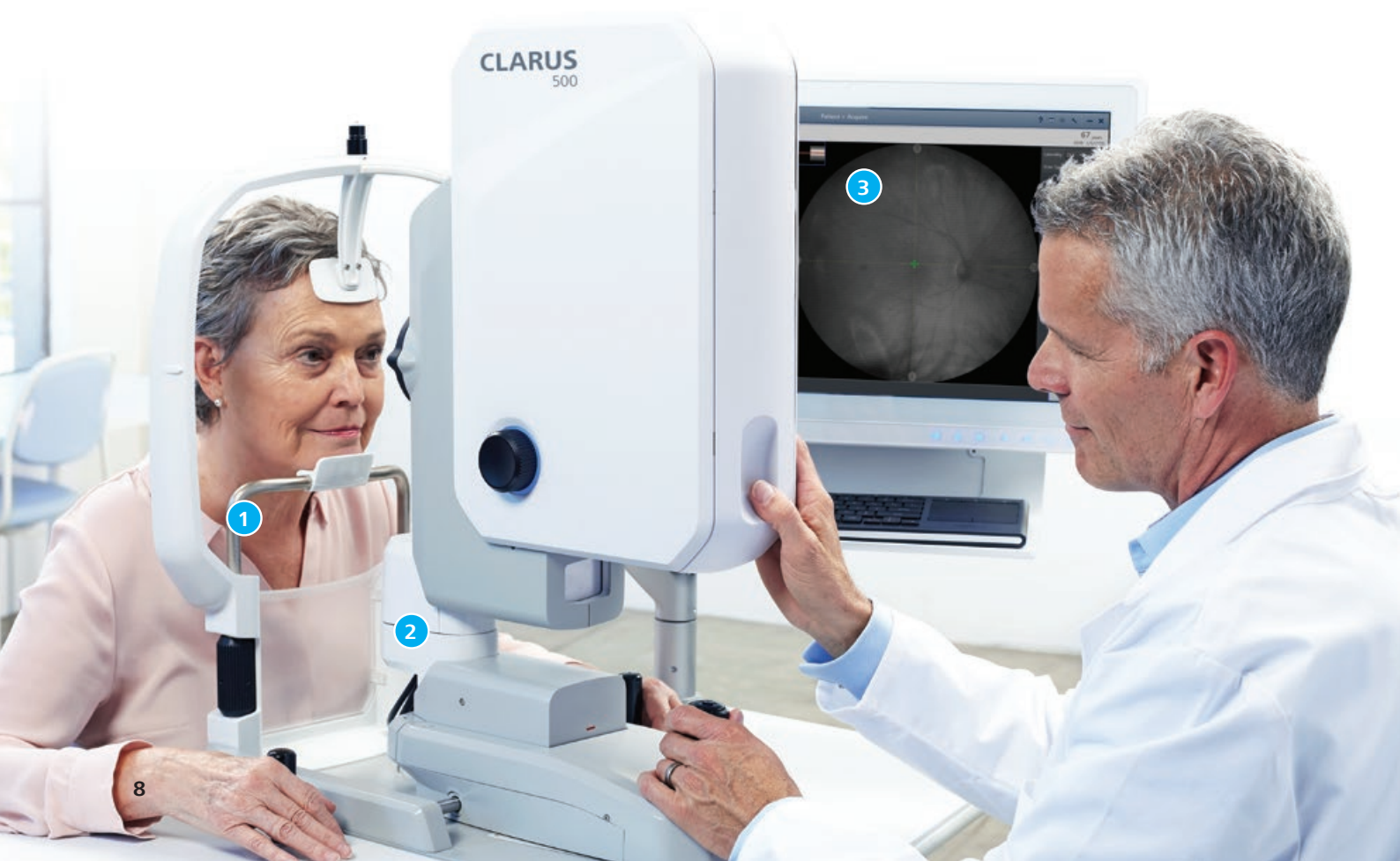
Swivel motion:

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)	■ Infrared reflectance	■ External eye image (ocular surface)	■ Stereo
■ separation and not split			
■ Autofluorescence-Green			
■ Autofluorescence-Blue			
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 × D × H):		362 mm × 546 mm × 676 mm	
Instrument Table:			
■ Description	Wheelchair accessible, electronic lift		
■ Table Dimensions (W × D × H)	916 mm × 615 mm × 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 × 3; RS-232 × 2; 1.5 kV Isolated Gigabit Ethernet Port × 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

CE 0297

CLARUS 500



Carl Zeiss Meditec, Inc.

5300 Central Parkway
Dublin, CA 94568
USA
www.zeiss.com/us/clarus
www.zeiss.com/med



Carl Zeiss Meditec AG

Goeschwitzer Strasse 51–52
07745 Jena
Germany
www.zeiss.com/clarus
www.zeiss.com/med/contacts

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