



**CLARUS 500 from ZEISS**  
HD Ultra-widefield Fundus Imaging



# Imaging ultra-wide without compromise.

ZEISS CLARUS 500

// INNOVATION  
MADE BY ZEISS

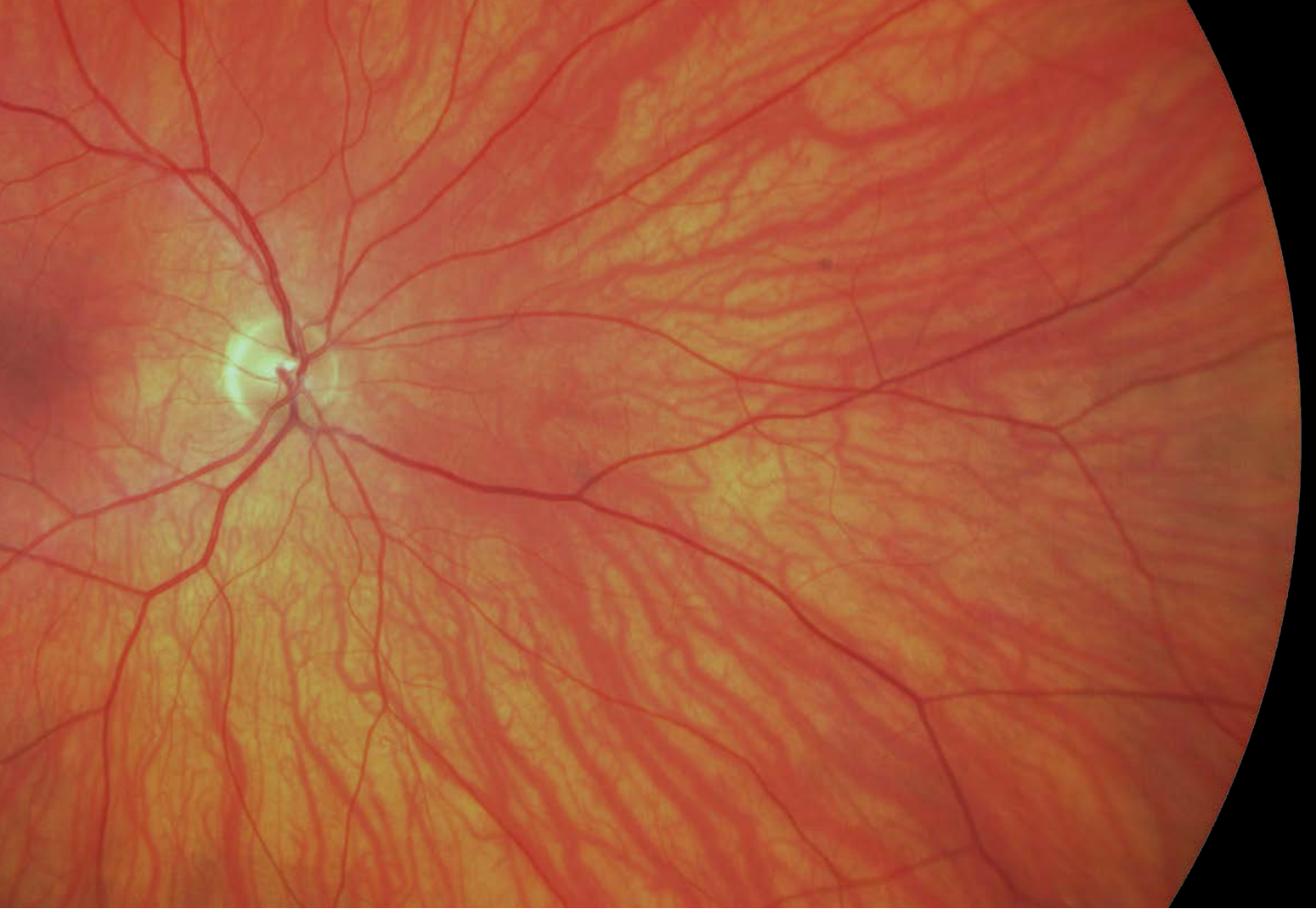
## **Compromising image quality may leave some pathology unseen.**

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



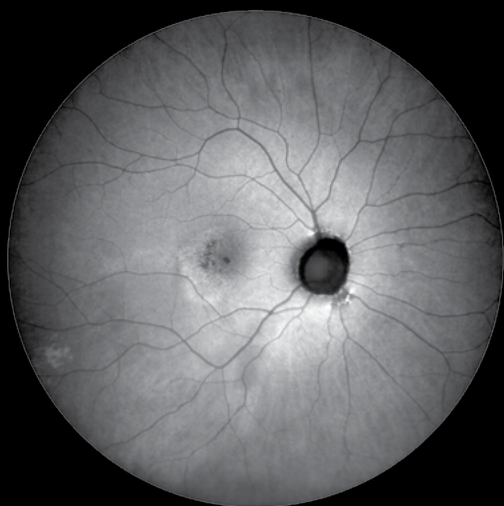
ZEISS CLARUS 500  
**Color. Clarity. Comfort.**



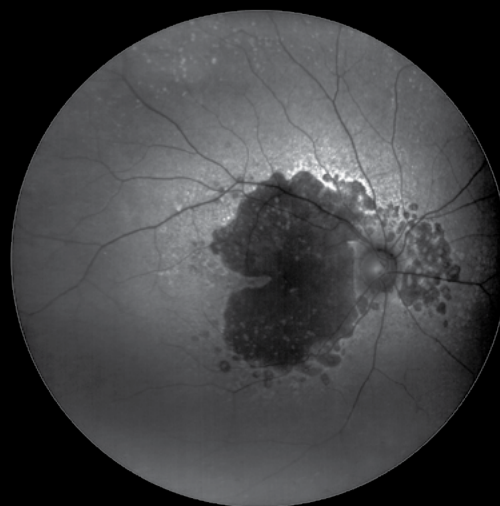
# A complete suite of imaging modalities



Ultra-wide True Color image of a healthy eye

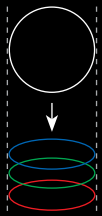


FAF-Green image of dry age-related macular degeneration

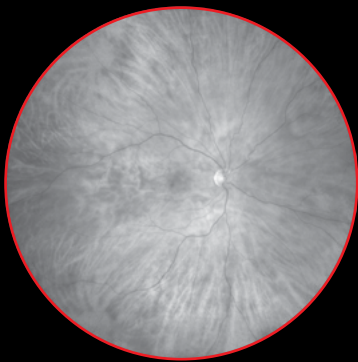


FAF-Blue image of geographic atrophy

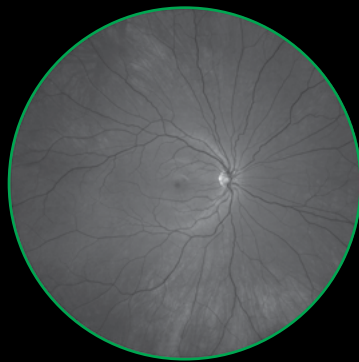
## Fundus autofluorescence



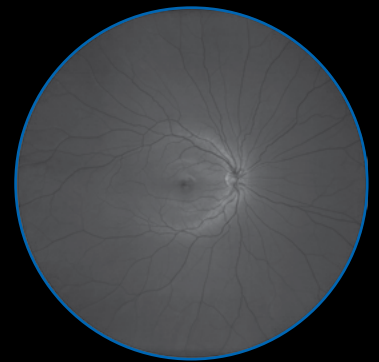
**True Color**



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



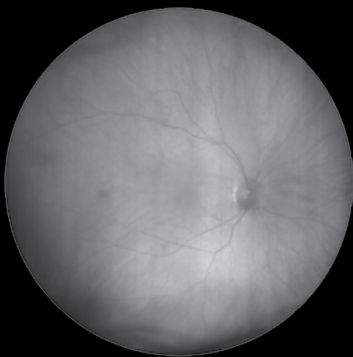
Green channel images provide excellent contrast of the retina, especially of vasculature and hemorrhages.



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.**



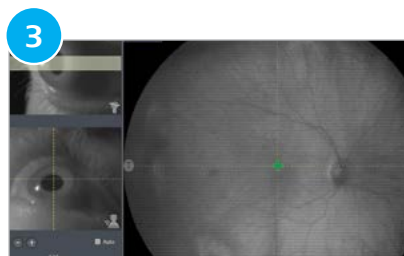
### **Chin rest/head rest:**

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.



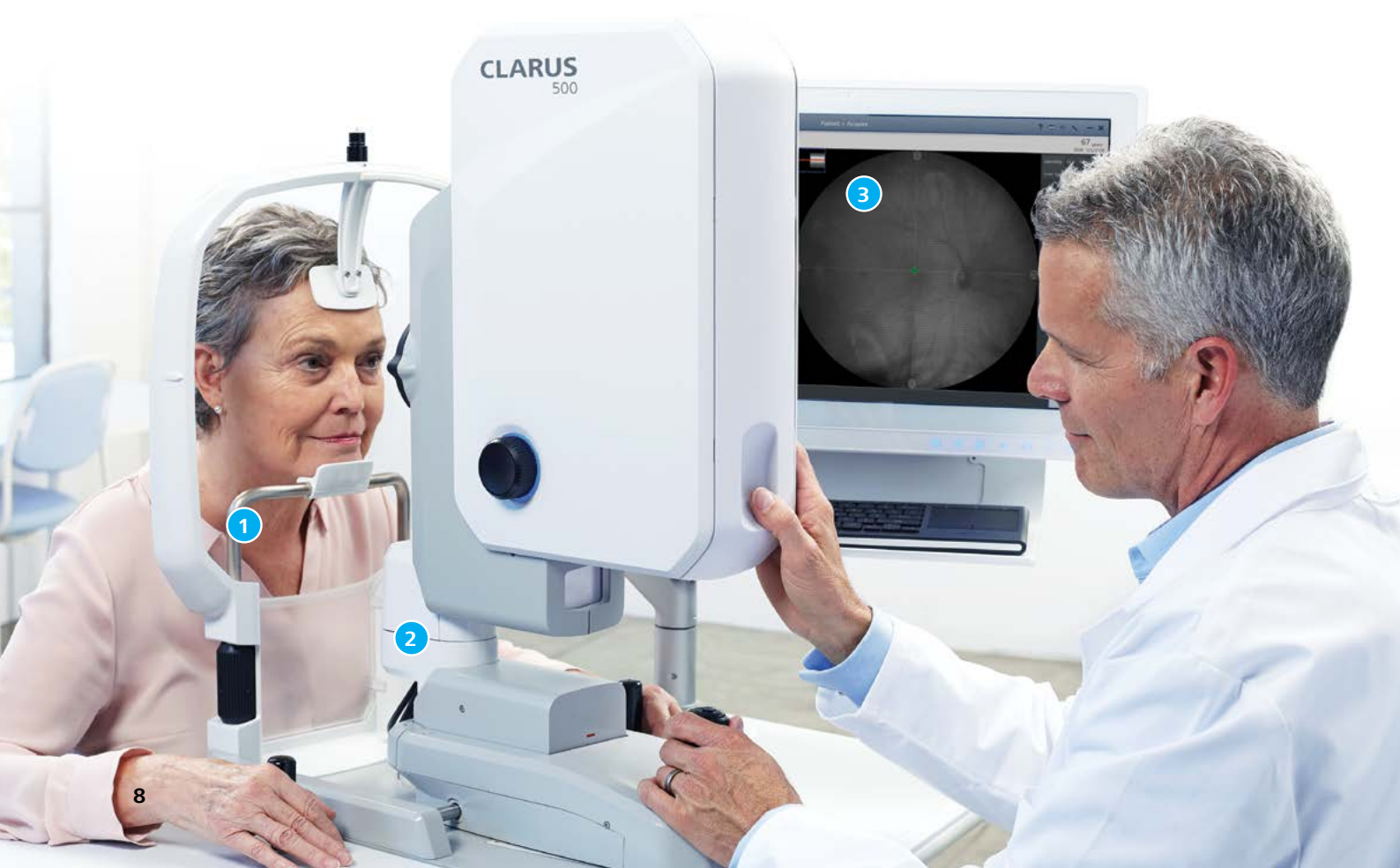
### **Swivel motion:**

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 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

Instrument Weight:		50 lbs (22.7 kg)	
Instrument Dimensions (W x D x H):		15" (38.1 cm) x 18" (45.7 cm) x 27" (68.6 cm)	
Instrument Table:			
■ Description	Wheelchair accessible, electronic lift		
■ Table Dimensions	37" (94 cm) x 27.5" (70 cm)		
■ Weight	81 lbs (37 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 x 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 x D x H):		21.5" (54.6 cm) x 2.5" (6.4 cm) x 13.75" (34.9 cm)	
Weight:	17.2 lbs (7.8 kg)	Mounting:	VESA 75/100 mm

**CE** 0297

CLARUS 500



**Carl Zeiss Meditec, Inc.**

5160 Hacienda Drive  
Dublin, CA 94568  
USA  
[www.zeiss.com/us/clarus](http://www.zeiss.com/us/clarus)  
[www.zeiss.com/med](http://www.zeiss.com/med)



**Carl Zeiss Meditec AG**

Goeschwitzer Strasse. 51-52  
07745 Jena  
GERMANY  
[www.zeiss.com/clarus](http://www.zeiss.com/clarus)  
[www.zeiss.com/med/contacts](http://www.zeiss.com/med/contacts)

**US\_31\_020\_0005II / EN\_31\_020\_0005II** Printed in Germany. CZ-VIII/2017 International Edition: Only for sale in selected countries  
The contents of this piece may differ from the current status of approval of the product or service offering in your country. Please contact our regional representatives for more information. Subject to changes in design and scope of delivery and as a result of ongoing technical development. CLARUS is either a trademark or a registered trademark of Carl Zeiss Meditec AG or other companies of the ZEISS Group in Germany and/or other countries.  
© Carl Zeiss Meditec, Inc., 2017. All rights reserved.