CLARUS 500 from ZEISS
HD Ultra-widefield Fundus Imaging
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

Fundus autofluorescence

FAF-Green image of dry age-related macular degeneration

FAF-Blue image of geographic atrophy
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.
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.

1. **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.

2. **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.

3. **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)
- Autofluorescence-Green
- Autofluorescence-Blue
- Infrared reflectance
- 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-gain
- Auto Montage
- Auto-laterality

#### Acquisition Speed:
- Live IR Preview 10 frames/second
- 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