

eidon

True Color Confocal Scanner



Unsurpassed Wide Field Image Quality

EIDON TrueColor Confocal Scanner

The latest technology to disclose new imaging quality to eye care professionals in all clinical practices.

Many diagnosis of ocular diseases can benefit from a detailed high fidelity retinal image, but available devices are often difficult to operate and may be negatively affected by small pupils or media opacities.

Panoramic documentation

Wide field imaging of the retina has become an essential tool in managing peripheral lesions.

Easier detection of pathologies, even with media opacities

The earliest signs of retinal disease may be missed with a direct examination or with low resolution fundus imaging systems. The EIDON's detail-rich images, even through cataracts and other media opacities, aid in detecting the slightest morphologic abnormalities.

Accurate patient follow-up

The EIDON provides tools which make for easy comparison of images over time.

Improved patient workflow

Imaging through pupils as small as 2.5 mm allows for improved patient flow by facilitating operator activities and reducing wait times.

Educational tool

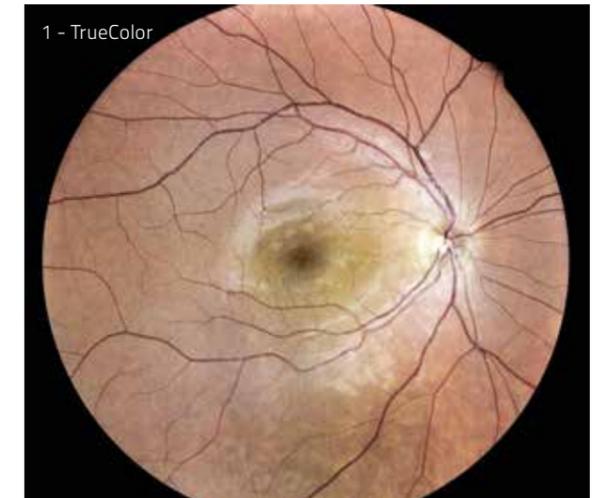
Today's patients are more involved in the diagnostic and treatment process. A high-quality color confocal image of the retina is a priceless patient education tool.

EIDON is the perfect retinal imaging system to provide both detail and wide field views in multiple imaging modalities

EIDON, the ophthalmic market's only TrueColor Confocal Scanner, combines the best features of SLO systems with those of standard fundus photography. The EIDON captures crisp and sharp wide field images representing the actual appearance of the retina.

EIDON can capture all three image types in one single exam:

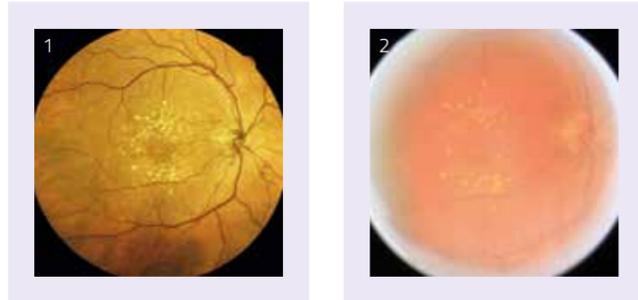
1. TrueColor capture provides a high-quality overview of the retina
2. Red-Free filtering enhances the vasculature of the retina and allows high quality view of the nerve fiber layer
3. Infrared provides information of the deep retina



Confocality

Imaging through cataracts

Confocal imaging is known in eye care as a new standard of excellent image quality. The primary characteristic of confocality is to block the back-scattered light from layers outside the focal plane. The confocal technology allows for preserved image quality in the case of media opacities, including cataracts.



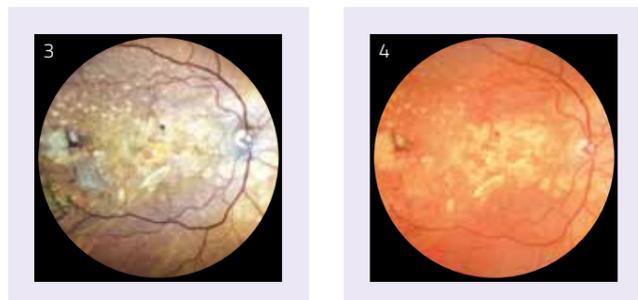
EIDON (Fig.1) vs traditional fundus camera (Fig. 2). Macular drusen in cataract patient.

TrueColor imaging

Seeing it as it is!

EIDON combines, for the first time, a confocal system with the fidelity of true color imaging by using a white LED illumination source. This unique combination provides an accurate perception of fundus anatomy in actual appearance, which can aid in the detection, diagnosis and follow-up of pathology.

TrueColor confocal imaging provides details that may not be evident with fundus cameras or SLO pseudo-color images.



EIDON TrueColor (Fig. 3) highlights details poorly visible in the traditional fundus camera (Fig. 4)



EIDON detail (Fig. 5) vs SLO pseudo-color (Fig. 6). Color is altered and details can be missed in the SLO pseudo-color image.

Panoramic view

Peripheral details in high definition

EIDON provides a 60° image of the retina with a single exposure. Multi-field imaging allows for the automatic creation of a 110° montage in auto-mode.

EIDON TrueColor confocal technology applied to wide field Imaging improves the detection, analysis, and monitoring of pathologies, preserving the sharpness and details even in the periphery.

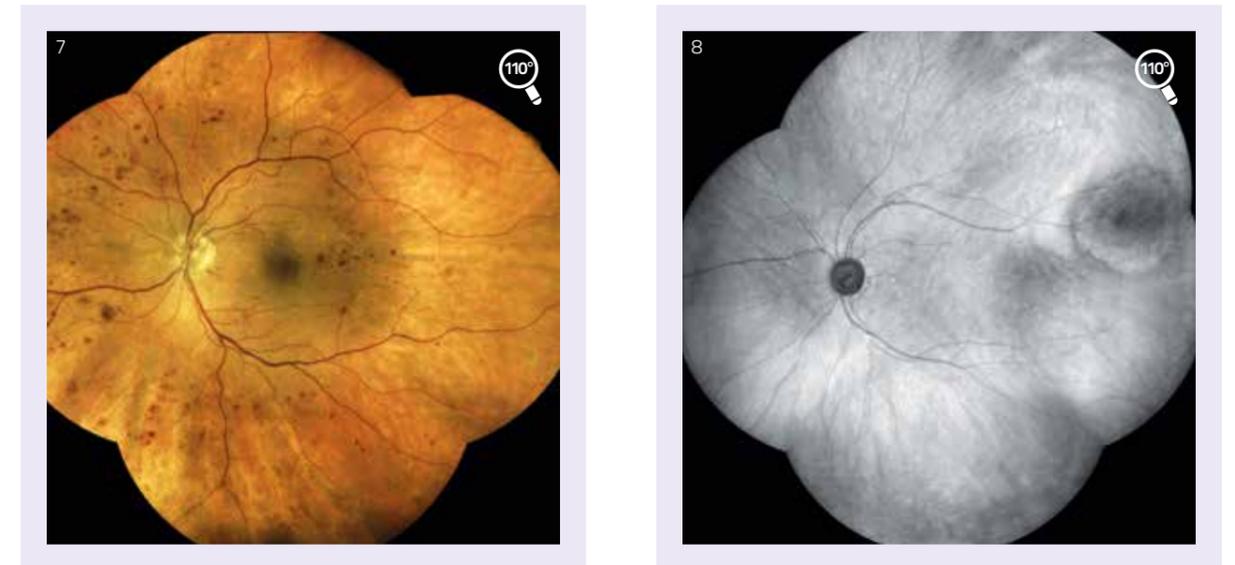


Fig. 7 – EIDON 110° TrueColor Mosaic (5 fields). Proliferative diabetic retinopathy.
Fig. 8 – EIDON 110° Infrared Mosaic of the choroid (7 fields). Peripheral nevus.

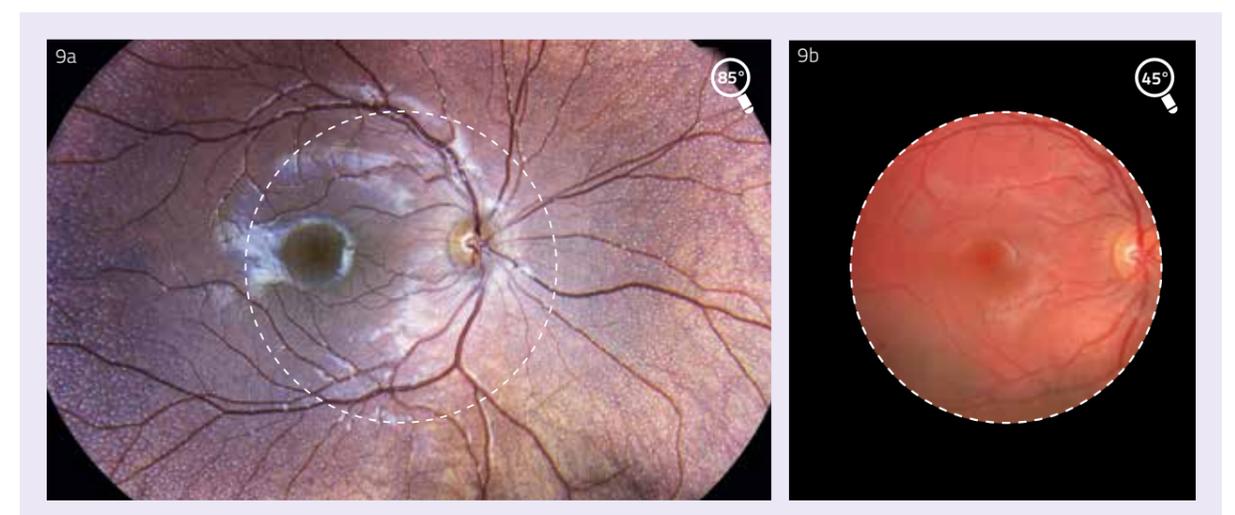


Fig. 9a – EIDON 85° x 60° TrueColor Mosaic (2 fields). The dashed circle highlights the standard 45° field image of the same retina captured with a traditional fundus camera (Fig. 9b).

Easy to use

From fully automatic to fully manual modes

EIDON's intuitive commands provide flexibility in operational modes, from fully automatic control to manual operation for custom image capturing.



Ergonomic and motorized chinrest design.



Touch screen interface via high resolution integrated tablet.



Digital joystick is optional for manual alignment and focusing.



All In-one design (no external PC) provides 1 Ethernet and 3 USB Ports

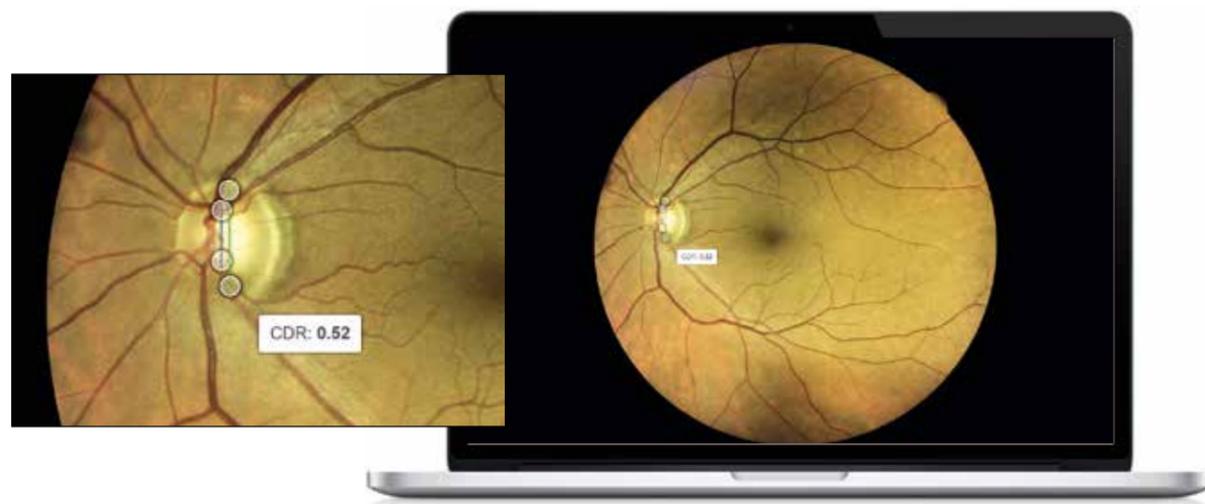
Remote viewing software

Seamless connectivity without the need of a dedicated application

EIDON offers embedded capabilities for network connectivity, for both remote data review and data backup. EIDON's Remote Viewer is a browser-based software that allows for review from any network computer on the same local area network (LAN).

The Remote Viewer provides image comparison tools, anatomic measurements, post-processing tools and more.

- Flickering - images of the same eye are both registered and played to allow visibility of the slightest change in retina characteristics over time.
- Cup to disc calculation – ratios can be measured and stored



Technical specifications*

Class and type of applied part

1, B (according to EN 60601-1)

IP classification:

IPX0 (according to the degree of protection provided by the enclosure with respect to harmful penetration of particulate matter or water)

Image acquisition:

- Non-mydratic (minimum pupil size 2.5 mm)
- Field of individual image: 60° (H) x 55° (V) captured in a single exposure [Center of Eye Angle of 90° (H) x 80° (V)]
- Sensor resolution: 14 Mpixel (4608 x 3288)
- Light source: near infrared (825-870 nm), white (440-650 nm)
- Wide field Mosaic: up to 110° (H) x 95° (V) in automatic mode [Center of Eye Angle of 160° (H) x 135° (V)]
- Working distance: 28 mm
- Resolution: 60 pixel/deg
- Optical resolution on the retina: 15 μm
- Pixel pitch: 4.9 μm

Remote Viewer:

- Manual cup to disc calculation (on color picture)
- Stereo view of the optic disc
- Imaging Flickering

Other features:

- Imaging modalities: TrueColor, IR, red-free
- Stereo view of the optic disc (available both on tablet and on remote viewer)
- Automatic operation: auto-alignment, auto-focus, auto-exposure, auto-capture
- Auto-focusing adjustment range: -12D to +15D
- Dynamic, programmable internal fixation target
- Tablet operated, with multi-touch, color display
- Wi-Fi connectivity through tablet
- Ethernet connection through device
- Patient presence sensor
- Hard disk: SSD, 256 GB

Dimensions:

- Unit Size: 360 (W) x 590 (H) x 620 (D)
- Unit weight: 25 kg

Power supply:

- 100-240 VAC, 50-60 Hz
- Power consumption: 80 W

Accessories:

- External power supply
- 3D Joystick with holder
- Tablet with holder and USB cable
- User manual
- Lens cap
- Removable forehead-rest
- External fixation

* Specifications are subject to change without notice for improvement.

CE 0123



Eidon - the device for the
everyday eyecare practice.

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