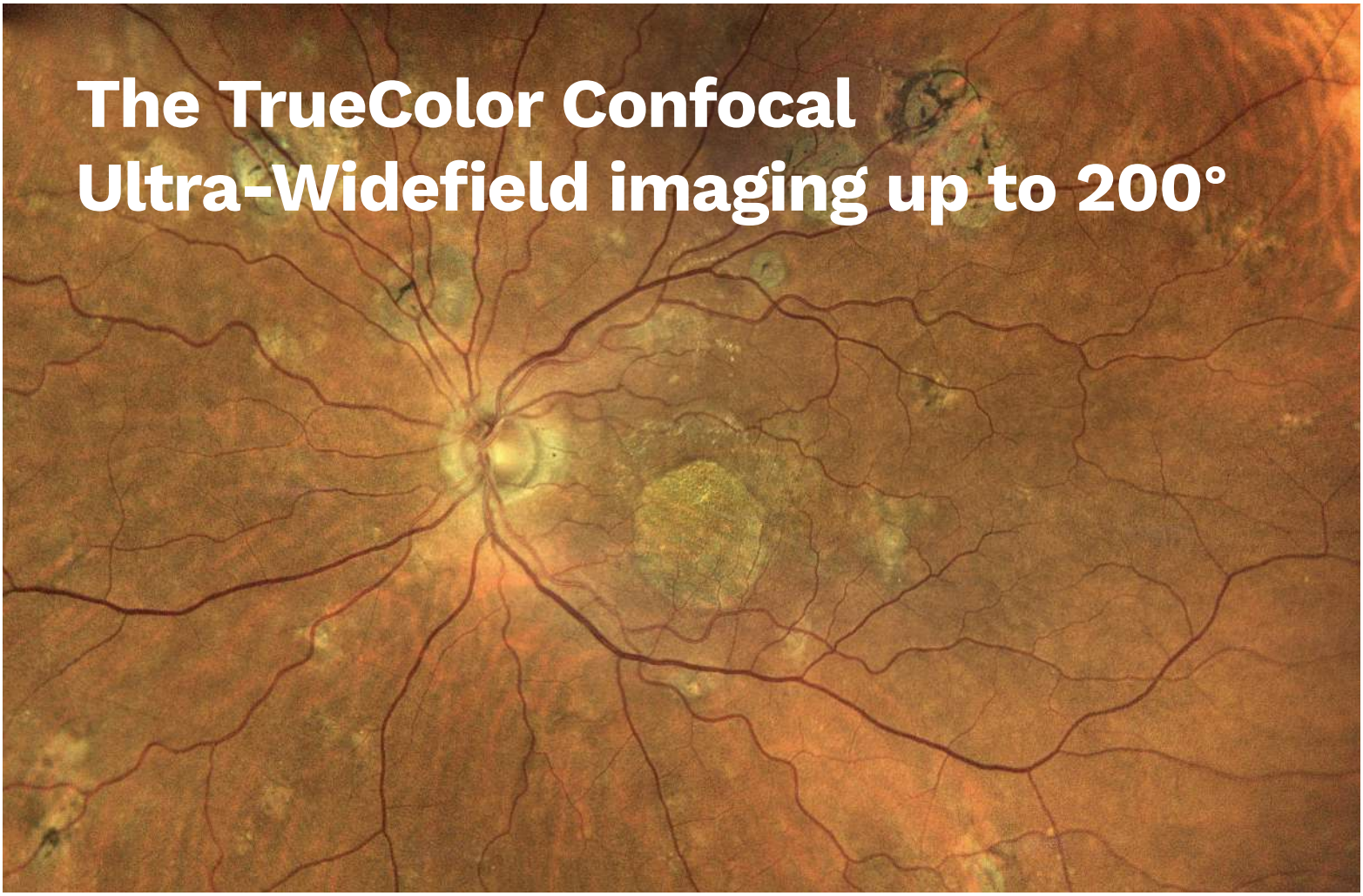
iCare EIDON Family

Unsurpassed Ultra-Widefield image quality

For better perception icare



iCare EIDON Family

Unsurpassed Ultra-Widefield image quality

iCare EIDON® Family is a family of fundus imaging devices designed to provide Ultra-Widefield high resolution images. iCare EIDON Family is composed of three models, iCare EIDON, EIDON AF and EIDON FA, to serve different needs with a complete suite of imaging modalities.

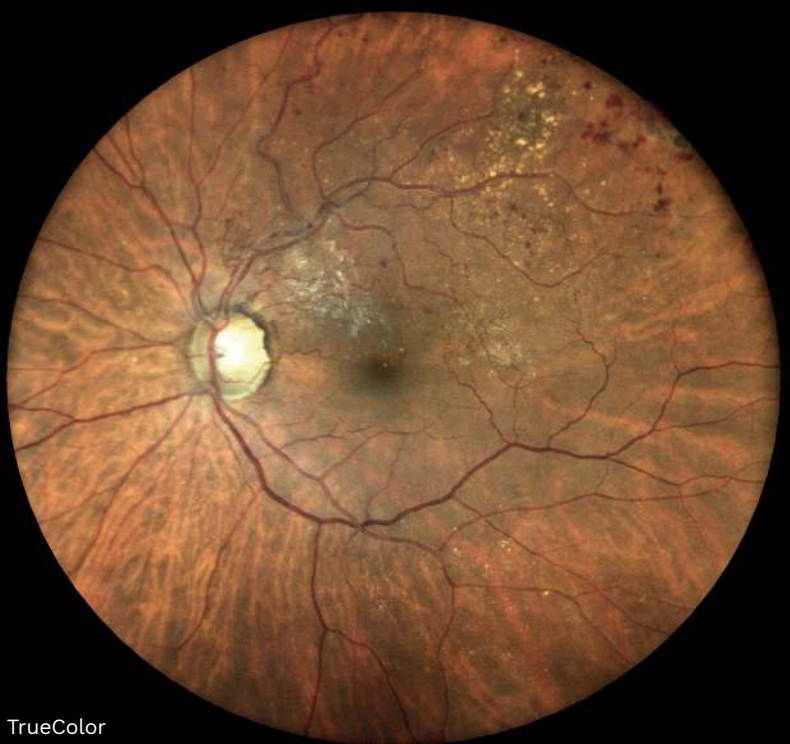
TrueColor Confocal Technology, with white LED, promotes detailed **retinal pictures** with **pupils** as small as **2.5 mm** and scanning **through cataract**.

Ultra-Widefield* high resolution imaging provides both detail-rich and panoramic views of the retina up to 200°.

Flexibility in operational modes, **from fully automatic control to manual operation,** requires minimal staff training, speeding up the examination time.

The TrueColor **Confocal Technology**

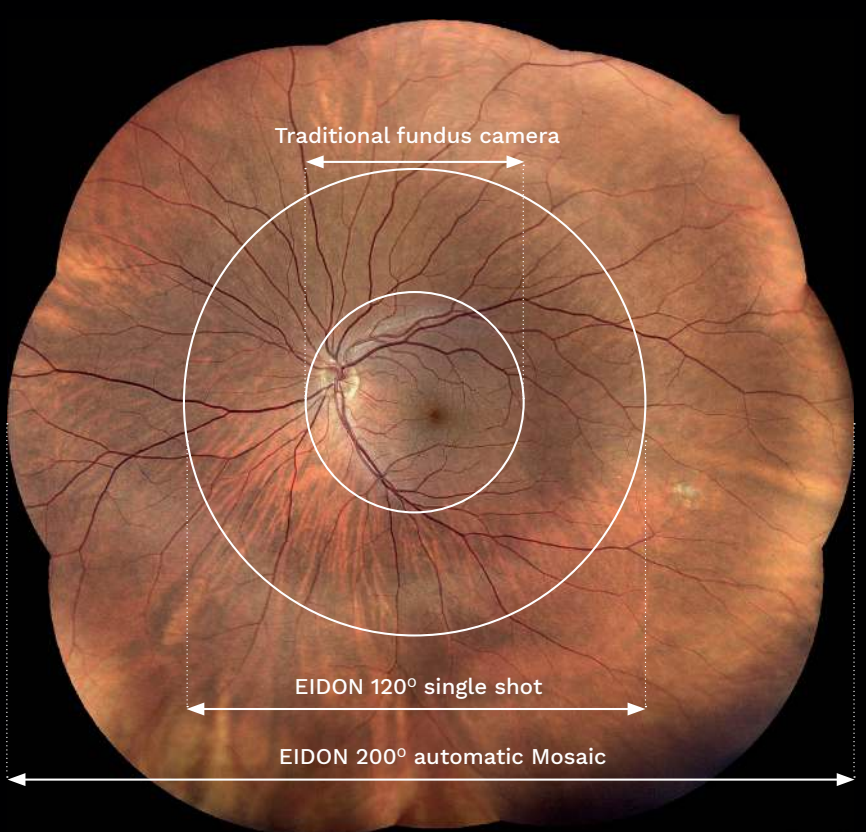
iCare EIDON Family combines a confocal optical engine with a white light LED source - which includes the entire visible spectrum of light – to illuminate the retina and to capture TrueColor fundus images characterized by colors close to reality.



120° TrueColor

iCare EIDON Family allows **a panoramic view of the retina, up to 200°**

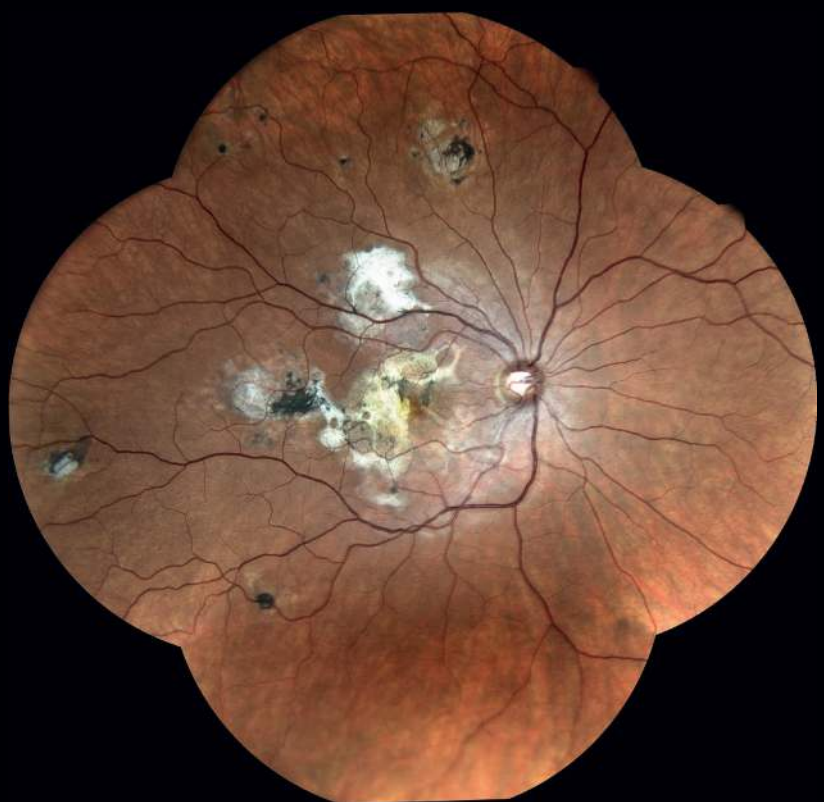
By using a proprietary stitching algorithm, iCare EIDON Family automatically combines different fields without user intervention, offering unsurpassed image quality, sharpness, and details, from the posterior pole to the periphery.



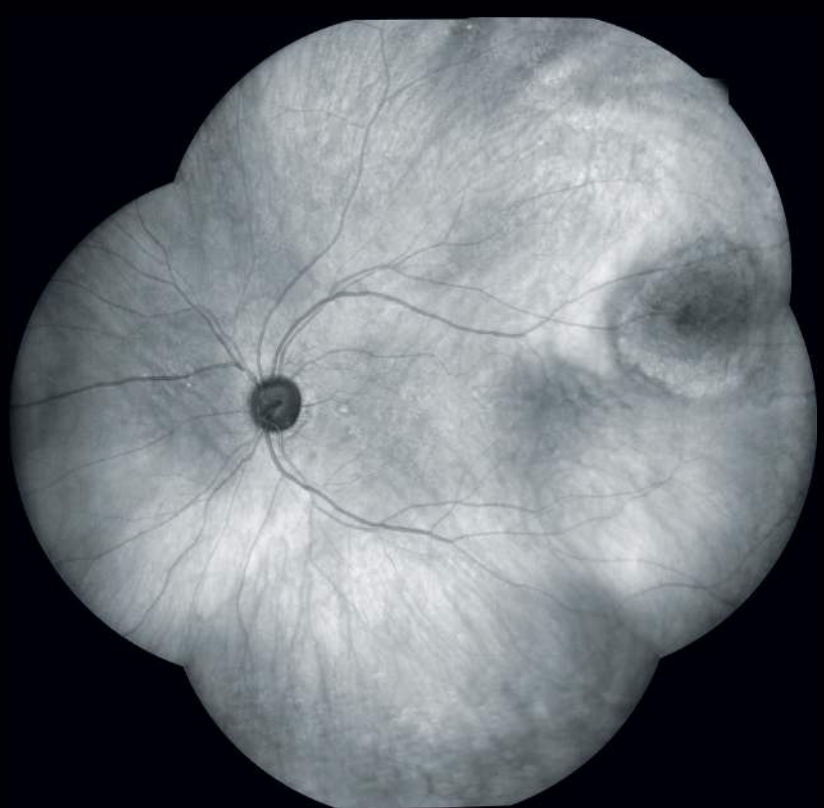
*Ultra-Widefield imaging is available with the optional EIDON UWF Module.

A complete suite of retina images

TrueColor
to see the retina with superior color fidelity



Infrared
to get information corresponding to the choroid



Blue Fundus Autofluorescence
to assess the Retinal Pigment Epithelial layer integrity

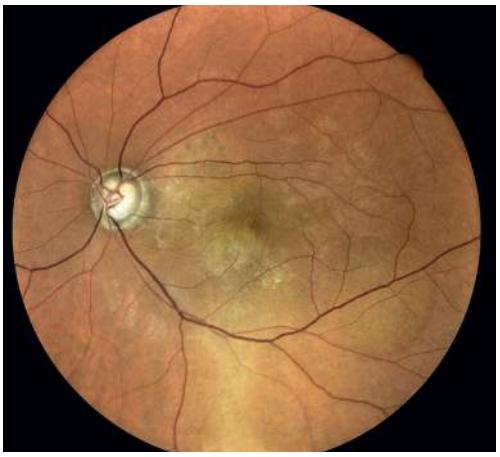
Fluorescein Angiography
to observe and monitor retinal blood flow details

All these imaging modalities are available also using the optional EIDON UWF Module, for wider field of view acquisition.

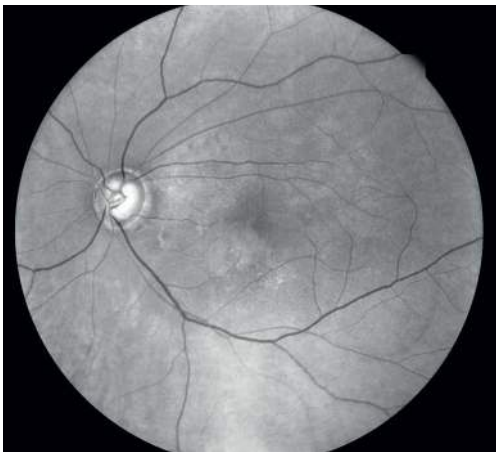
RGB channels separation

iCare EIDON Family TrueColor images can be separated into red, green and blue channel images to enhance the visualization of details on different retina layers.

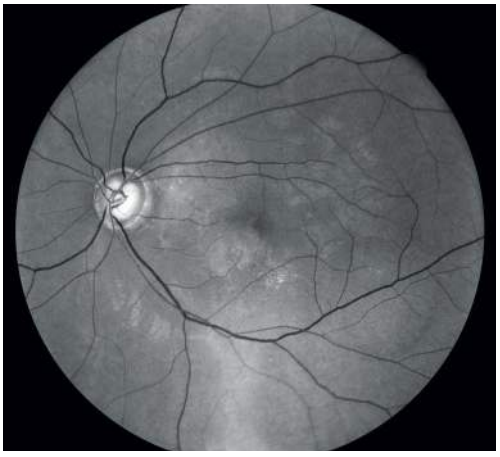
TrueColor



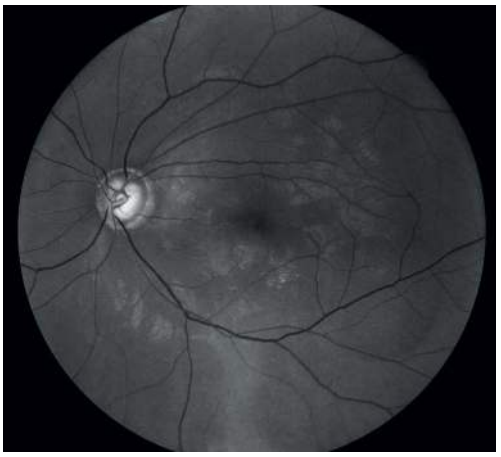
Red Channel



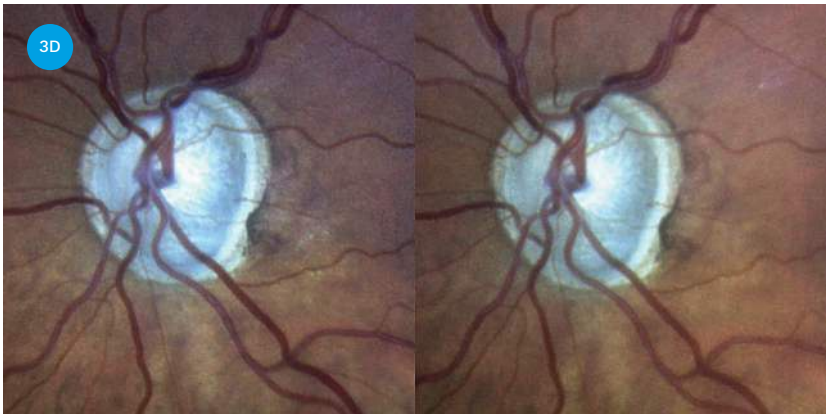
Green Channel



Blue Channel



All these imaging modalities are available also using the optional EIDON UWF Module, for wider field of view acquisition.



Stereo Viewer Technology

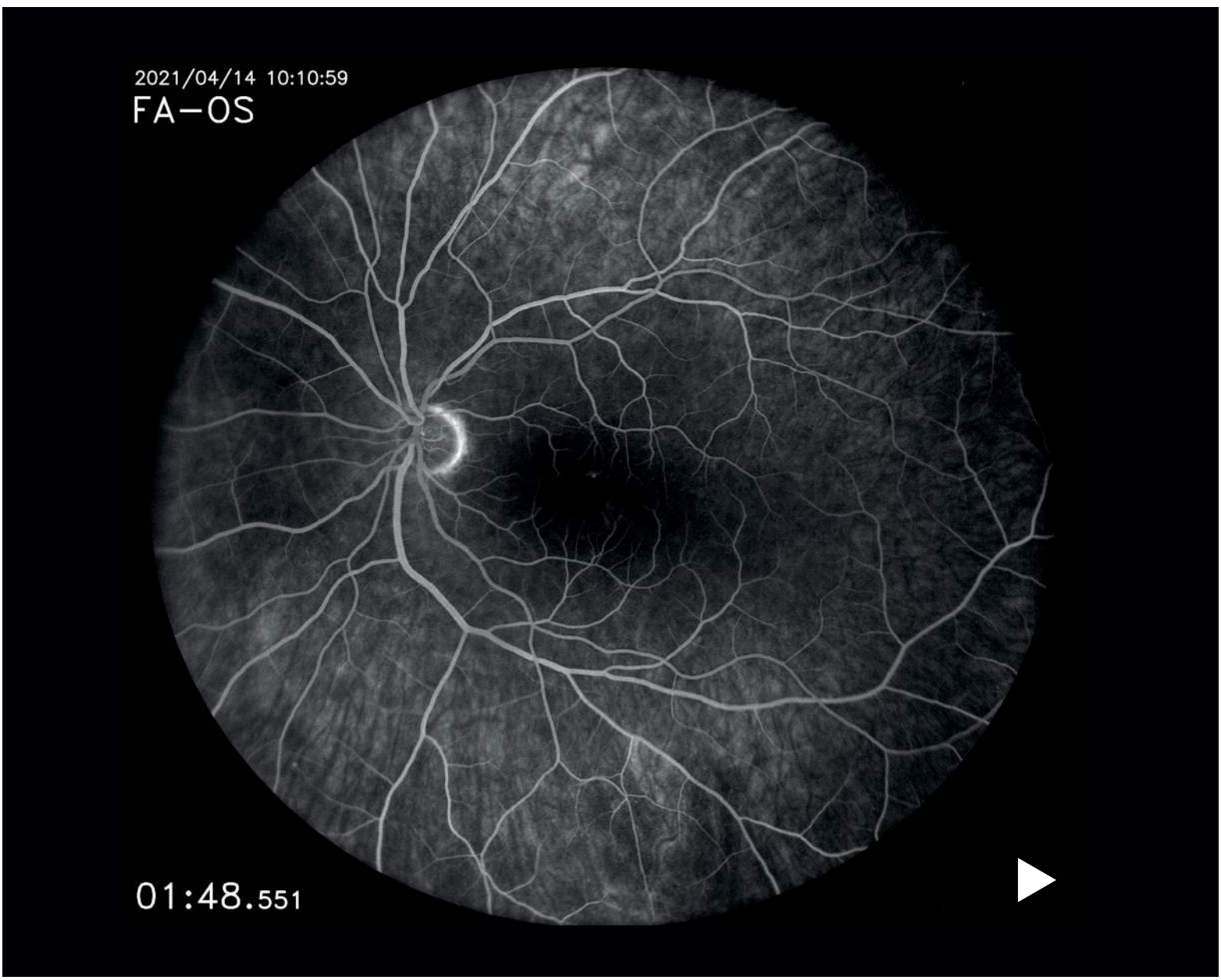
iCare EIDON Family Stereo Viewer Technology automatically captures two separate photos of the nasal field, at different angles and different focal planes (bifocal), creating improved 3D perception of the disc.

Fluorescein Angiography video provides detailed dynamic view of retina vasculature

The fully automated capability of iCare EIDON FA transforms the overall complex Fluorescein Angiography process in a simple examination requiring minimal operator involvement.

Additionally, the Fluorescein Angiography video acquisition offers a dynamic perspective of retinal vasculature and related circulation mechanisms that may be missed with static photography.

With these functionalities, iCare EIDON FA leaves the operator free to focus attention on ensuring maximum patient care and comfort.



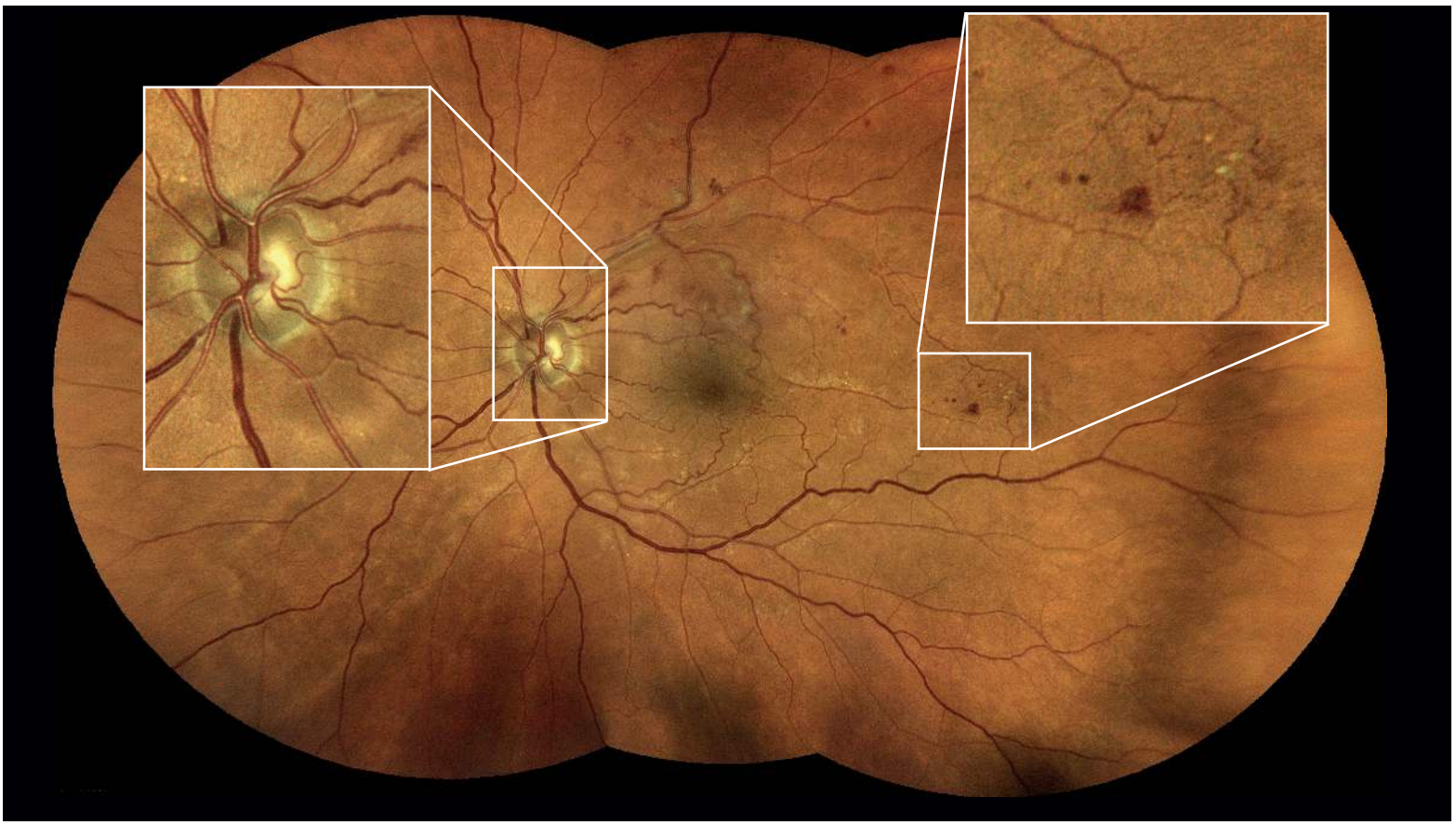
The new **Ultra-Widefield Module**

The early signs of several pathologies are often subtle and may appear first on the periphery of the retina.

The iCare EIDON UWF Module expands the retina field of view, revealig new areas that would not have been discovered with a standard field.

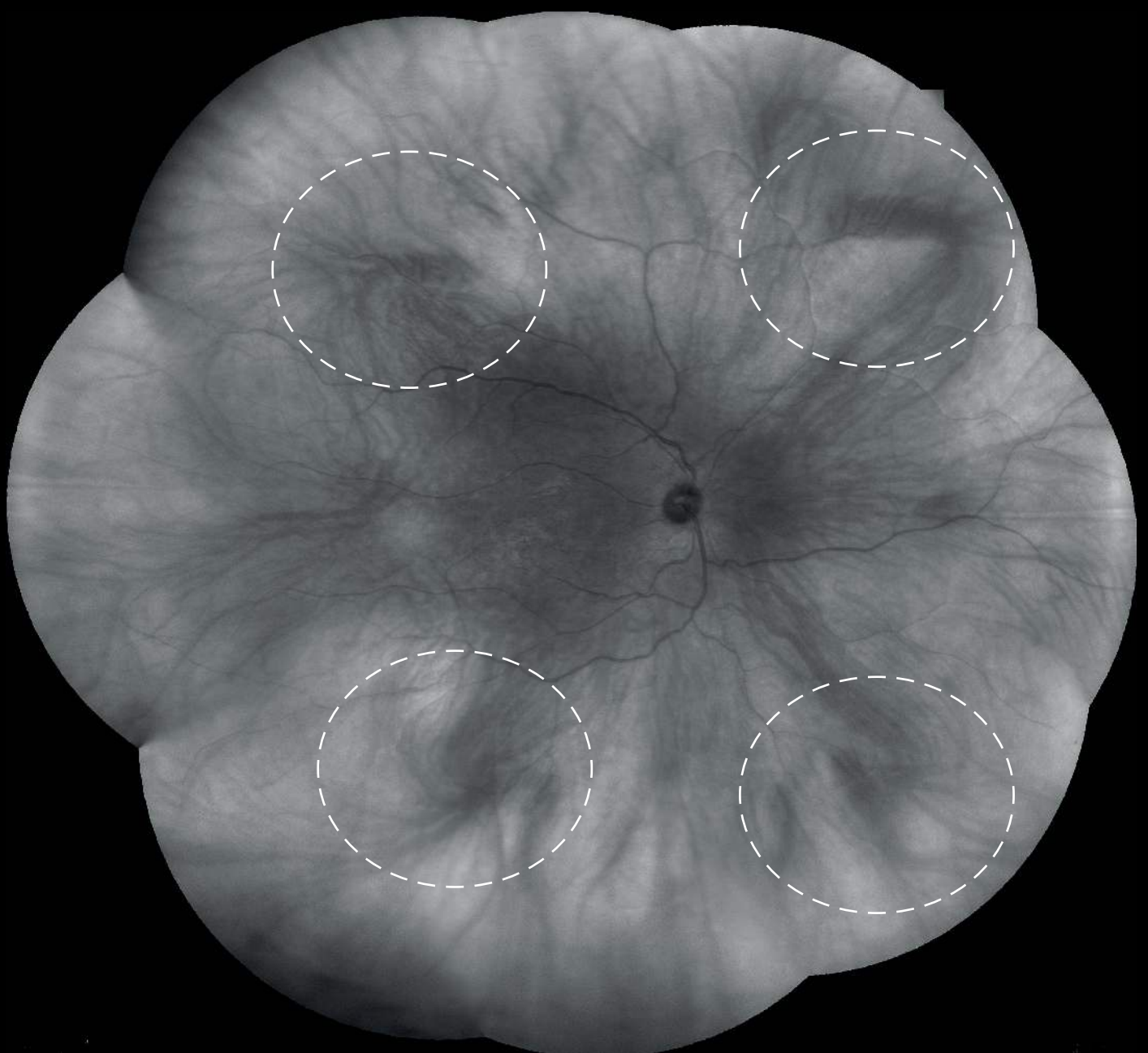
Preserved **ultra-high image quality**

Thanks to iCare EIDON UWF Module the iCare TrueColor Confocal Technology can be applied to Ultra-Widefield imaging, expanding the iCare EIDON Family's unsurpassed image quality to increased field of view on the retina.



Increased field of **view up to 200°**

With iCare EIDON UWF Module it is possible to get a wider view of the fundus, imaging 120° of the retina in a single shot and even up to 200° with the Mosaic functionality, thus revealing signs of pathology outside the standard field and allowing for more thorough detection and documentation of peripheral retinal pathologies.



The 200° Infrared image shows clearly the vortex vein ampullae in all four retina quadrants.

Provide your patient with a **comfortable exam experience**

iCare EIDON Family provides the flexibility of going from fully automatic to fully manual operation, requiring minimal staff training and speeding up examination time. With no need for dilation (2.5 mm minimum pupil), iCare EIDON Family promises enhanced comfort to patients, improving everyday workflow.

iCare EIDON Family **Remote Viewer***

The EIDON Family Remote Viewer is a browser-based software that allows for reviewing from any network computer on the same local area network (LAN), with password protection.

* Multiple concurrent accesses available under license.

Technical data

	iCare EIDON	**iCare** EIDON AF	**iCare** EIDON FA
Fundus Imaging System Features			
Non-mydriatic	minimum pupil size 2.5 mm		
Field of View			
(measured from the center of the eye)			
Individual image	standard 90° / Ultra-Widefield*[1] 120°		
Mosaic*[2] (three images)	standard up to 160° / Ultra-Widefield*[1] up to 200°		
Sensor resolution	14 Mpixel (4608 x 3288)		
Light sources			
White LED (440 - 650 nm)	✓	✓	✓
Infrared LED (825 - 870 nm)	✓	✓	✓
Blue LED (440-475 nm)		✓	✓
Imaging modalities			
TrueColor	✓	✓	✓
Infrared	✓	✓	✓
RGB channels separation*[3]	✓	✓	✓
Fundus Autofluorescence		✓	✓
Fluorescein Angiography			✓
Working distance	standard 28 mm / Ultra-Widefield*[1] 16 mm		
Automatic operation	auto-alignment, auto-focus, auto-exposure, auto-capture, auto-mosaic		
Auto-focusing adjustment range	-15D to +15D		
Resolution	60 pixel/deg		
Optical resolution on the retina	15 microns		
Pixel pitch	4.9 microns		
Fixation targets	Internal/External		
Dynamic Programmable Internal Fixation Target	Central, Nasal, Temporal, Central-Nasal, Superior, Inferior, Superior-Temporal, Superior-Nasal, Inferior-Temporal, Inferior-Nasal		
FA video resolution	1840 x 1644 pixels		
FA video acquisition rate	5 fps		
Internal computer			
Hard drive	SSD, 480 GB	SSD, 480 GB	SSD, 2 TB
Display	tablet operated, with multi-touch, color display		
Interfaces	Available ports: USB port x 2, Gigabit Ethernet Port x 1		
Export/Import	jpeg, pdf, DICOM*[4]		
Dimensions/Power supply			
Size (WxHxD)	360 mm X 590 mm X 620 mm / 14.2” x 23.2” x 24.4”		
Weight	25 kg (55 lbs)		
Related Voltage	100-240 VAC		
Frequency	50-60 Hz		
Power Consuption	80W		
Electrical Class	Class II, type B (according to IEC 60601-1)		

*[1] Ultra-Widefield imaging is available with the optional EIDON UWF Module *[2] Up to nine images *[3] Digital filters *[4] Optional

iCare. For better perception.

iCare is a trusted partner in ophthalmic diagnostics, offering physicians fast, easy-to-use, and reliable tools for diagnosis of glaucoma, diabetic retinopathy, and macular degeneration (AMD). Our product assortment includes automated TrueColor imaging devices, perimeters and handheld rebound tonometers.

We believe that ophthalmic care should be accessible, effortless, and reliable, and we aim to establish the next level of eye care.

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