Ultra-Widefield Non-Mydriatic Retinal Imager

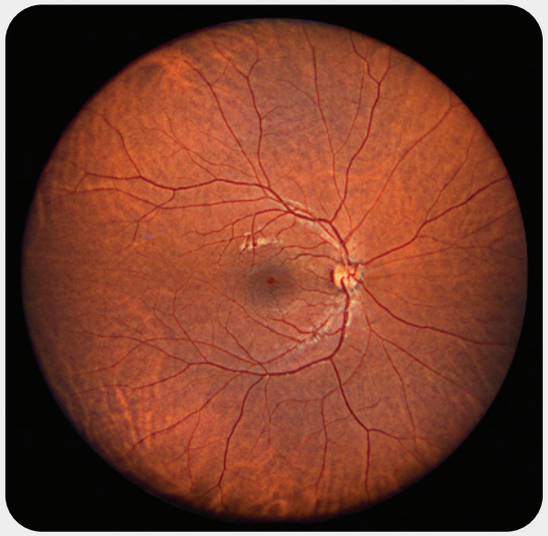
Discover high-quality
ultra-widefield retinal imaging

CELLVIEW IMAGING
ADVANCED OPHTHALMIC IMAGING SYSTEMS

WRI-1

Introducing accessible high-definition ultra-widefield fundus imaging.

The WRI-1 captures a retinal image and far into the periphery up to 133° in a single-capture, or an up to 200° auto-stitched image. It provides clear and high-definition[1] images through small pupils, most cataracts, and other media opacities.



Comprehensive View of the Retina

It enables doctors to detect a wide range of retinal conditions and pathologies, including peripheral abnormalities that might otherwise go unnoticed with narrower field-of-view imaging.

By capturing an extensive retinal area, doctors can identify early signs of retinal diseases, such as diabetic retinopathy retinal tears, or other peripheral retinal lesions, at a stage when intervention and treatment are most effective.

Patient Workflow and Efficiency

Non-mydriatic imager
The WRI-1 features a patient friendly low intensity flash system enabling imaging through pupils as small as 2.5mm. It improves patient flow by assisting operator activities, eliminating the need for dilating patients.

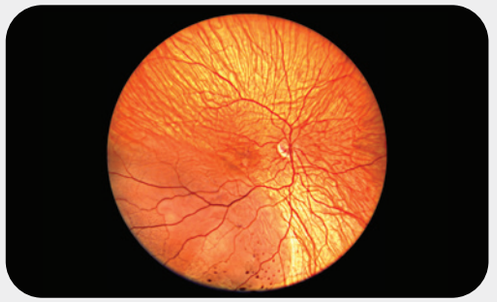
Multimodal imaging
The device has the ability of covering the full visible spectrum for Full Color and Infrared retinal imaging. Numerical filters are also available allowing different views of the retina.

1. Please refer to the Pixel pitch resolution line in the Technical specifications table.

The WRI-1 Ultra-Widefield Retinal Imager allows for a comprehensive view of the retina, producing an up to 200° image via a two-image auto-stitch.

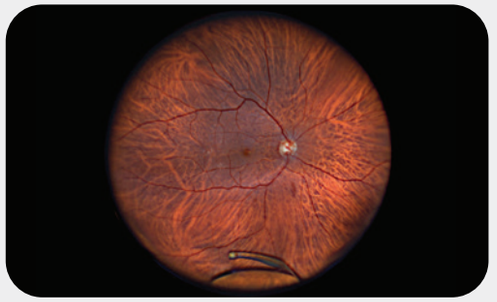
An up to 200° auto-stitched image

The steerable internal fixation facilitates image capture within the extended periphery encompassing regions beyond the traditional 200-degree field of view.

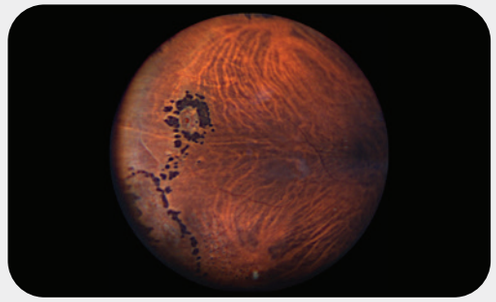


Inferior retinal detachment in a high myope

Inferior retinal detachment



Dislocated IOL

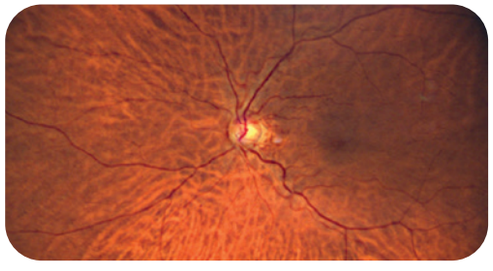


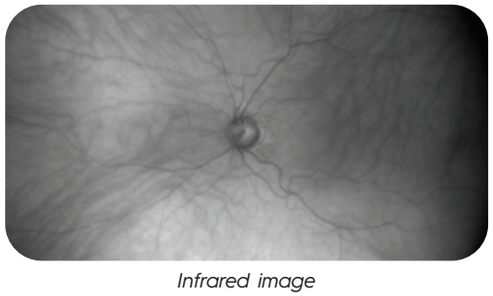
Retinal tear in periphery and laser surgery

Assisting in the detection and management of vision-threating pathologies

Full-Color and Infrared Imaging

The full visible spectrum LED array offers full-color and infrared images for the detection of potential pathologies that may go unnoticed with other narrower imaging methods.





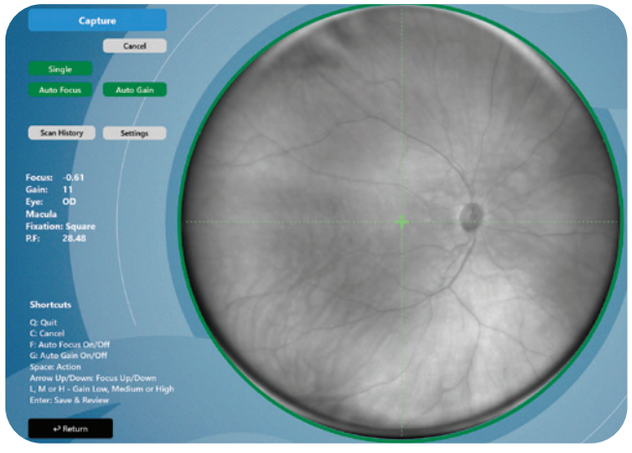
Infrared image

Nominal Staff Training

The WRI-1 is an easy-to-operate device even for unskilled operator usage. It presents an intuitive user interface and provides patient-friendly capture for a greater practice throughput.

Precision Imaging with Auto Focus & Auto Gain

Automatically adjusts focus and gain for sharp, high-resolution retinal images, streamlining the imaging process and reducing the need for manual adjustments by clinicians.
The Auto Gain Control (AGC) is a closed-loop feedback that helps to maintain a constant image output irrespective of the patient's pigment avoiding too dark or too bright (over saturated) retinal images.



Unlimited Cloud Storage & Remote Access

Data storage and review
Unlimited cloud-based storage securely stores* your valuable data in the cloud, accessible whenever and where ever you need it. Combining with the unlimited Remote Review stations it supports seamless data exchange for remote patient monitoring and collaborative eye care. Cooperate with specialists and colleagues, even if they are in different parts of the world.

Remote service feature**
No more waiting for onsite technicians. Possible remote support when needed. Minimizing downtime and costs.

Automatic software and feature upgrades
Stay at the forefront of technology with seamless updates, ensuring you always has the latest tools readily available.

*Encrypted data transfer & storage. **Feature available according to markets, please refer to your local sales team.

Technical specifications

Capture specifications

Field of view	Single image: 133° Two auto stitched images: 200° x 133°
Illumination source	4 LED array covering 460-830nm
Image capture modes	Full color / Red-free / Infrared
Minimum pupil size	Non-mydriatic 2.5mm
Auto-focus	-15D to +15D (in steps of 0.25D) / Manual control available
Auto-gain	Automatic Gain Control (AGC) / Manual control available
Working distance	12 mm
Pixel pitch resolution	12 µm
Fixation target	Internal OLED Fixed points or user controlled across 133° field of view

Equipment

Image capture & display	Micro computer 22 high resolution LG monitor with FHD and/or 4K
Data storage	Unlimited patient data and images automatically stored in the Cloud
Remote review stations	Unlimited review stations software included (on any laptop or computer)
System size (WxHxD)	320 mm (12.6") x 540 mm (21.25") x 390 mm (15.4")
Weight	14 kg (30.9 lbs)
Electrical class	IEC60601-1 Class 1

Power supply

Voltage	100-240 VAC
System voltage	24 VDC
Power	60 W Max.

CE

CV WRI-1 is an EU Class I medical device intended for Optometry.
Manufacturer: Cellview Imaging. For professional use only, read attentively the instructions for use.
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