Widefield Non-Mydriatic Retinal Imager

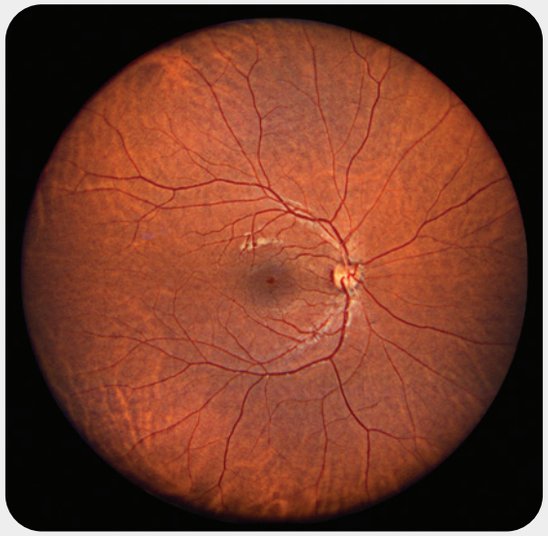
Discover high-quality
widefield retinal imaging

CELLVIEW IMAGING
ADVANCED OPHTHALMIC IMAGING SYSTEMS

WRI-1

Introducing accessible high-definition widefield fundus imaging.

The WRI-1 captures clear, high-definition[1] retinal images with a 133° single-capture or an up to 200° auto-stitched image.
It helps examiners image patients who are traditionally challenging such as those with small pupils and those with cataracts or other media opacities.



Comprehensive View of the Retina

By capturing an extensive retinal area showing details up to the periphery, it enables health care professionals to screen potential retinal defects or abnormalities that might go unnoticed.

It helps refer patients to a specialized clinic qualified to manage retinal defects or abnormalities 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 2.5 mm. It improves patient flow through delegation, and reduced reliance on dilation.

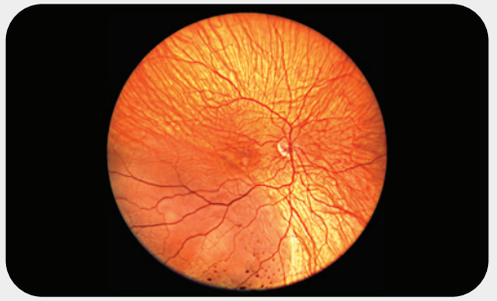
Multimodal imaging
The device has the ability of covering the full visible spectrum for Full Color and Infrared retinal imaging. Digital filters are also available allowing different views of the retina.

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

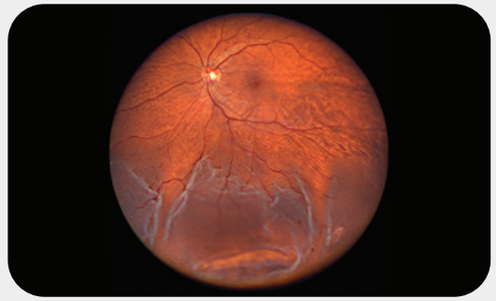
The WRI-1 Widefield Retinal Imager allows for a comprehensive view of the retina, producing an up to 200° image via a two-image auto-stitch.

An up to 200° auto-stitched image

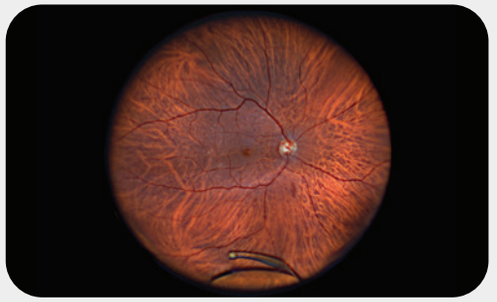
The steerable internal fixation facilitates image capture within the extended periphery encompassing regions beyond the traditional 200-degree field of view.



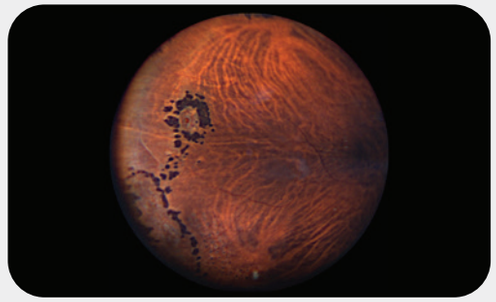
Inferior retinal detachment in a high myope



Inferior retinal detachment



Dislocated IOL



Retinal tear in periphery and laser surgery

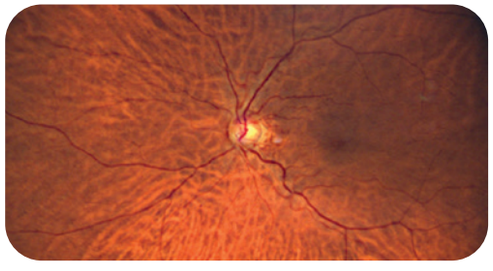
Assisting in the screening and evaluation of vision-threatening conditions.

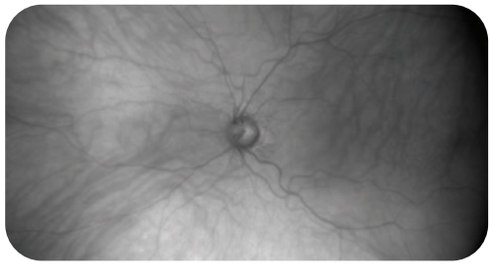
Full-Color and Infrared Imaging

The full visible spectrum LED array offers full-color and clear infrared images combining surface detail with deeper structural clarity, even in challenging cases.

Nominal Staff Training

The WRI-1 is an easy to operate device allowing even unskilled operators usage. Its intuitive interface and patient-friendly capture process help support overall practice throughput.

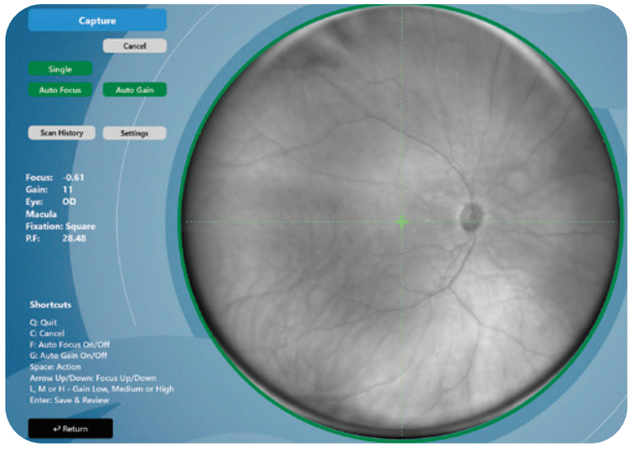




Infrared image

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.
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.



Extensive Cloud Storage & Remote Access

Data storage and review
Extensive cloud-based storage securely stores* your valuable data in the cloud, accessible whenever and wherever you need it.
When combined with flexible Remote Review Station and Web Review, it supports seamless data review for remote patient assessment and collaborative eye care from anywhere at any time.

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 have 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 24" high resolution LG monitor with FHD and/or 4K
Data storage	Extensive patient data and images automatically stored in the Cloud
Remote review stations	Remote Review Stations software and Web access included (on any laptop or computer complying with required resolution)
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

Cellview is a EU Class I medical device intended for Optometry. CE marked.
Manufacturer: Cellview. This product is an FDA Class II medical device, 510(k)-exempt under 21 CFR 886.1120, subject to the limitations in 21 CFR 886.9. For professional use only, read attentively the instructions for use.

As improvements are made, these specifications are not contractually binding and may be modified without prior notice. Cellview Imaging is a brand of Essilor International.

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CELLVIEW IMAGING INC.
10 Kodiak Crescent Suite 120,
North York, ON M3J 3G5, Canada

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