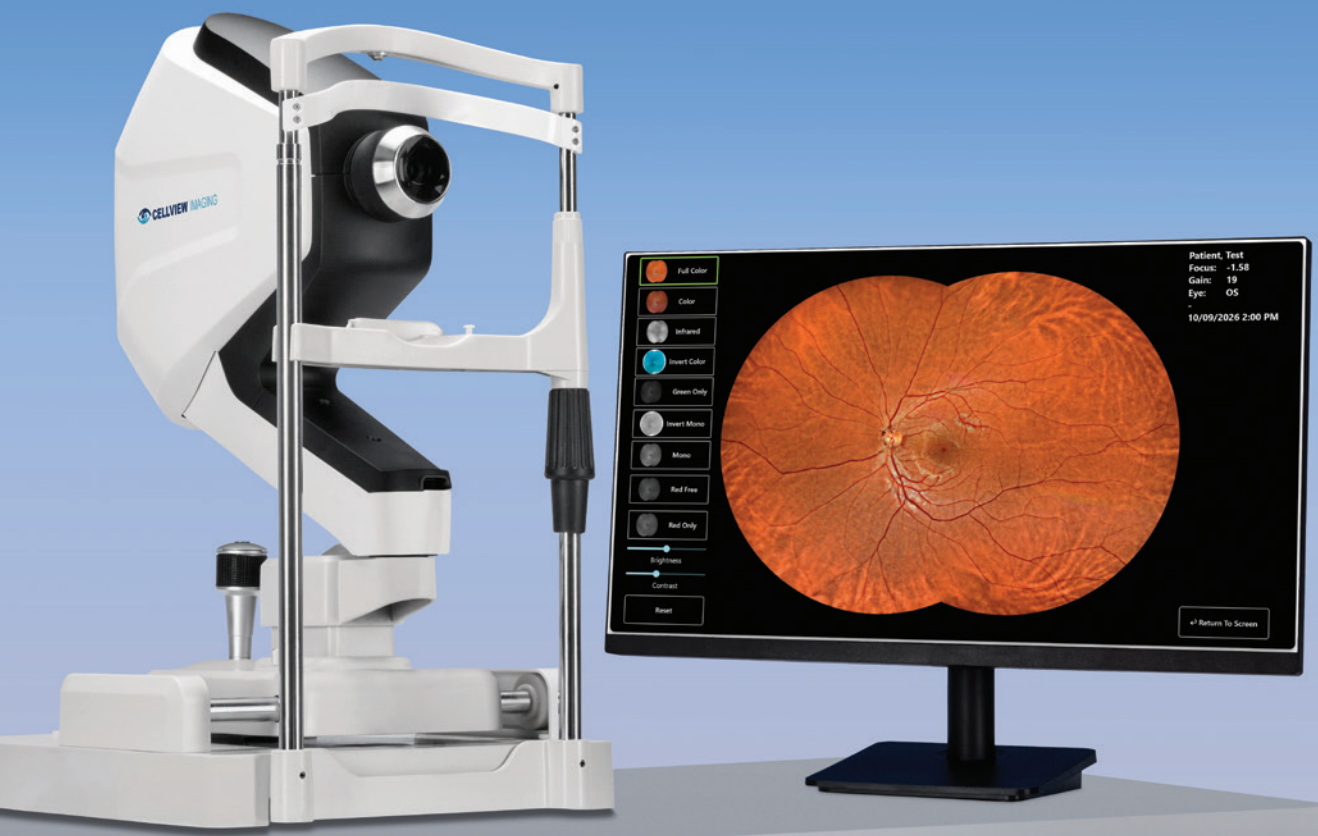
WRI-1

Widefield Retinal Imager



Widefield retinal imaging
designed for everyday practice.

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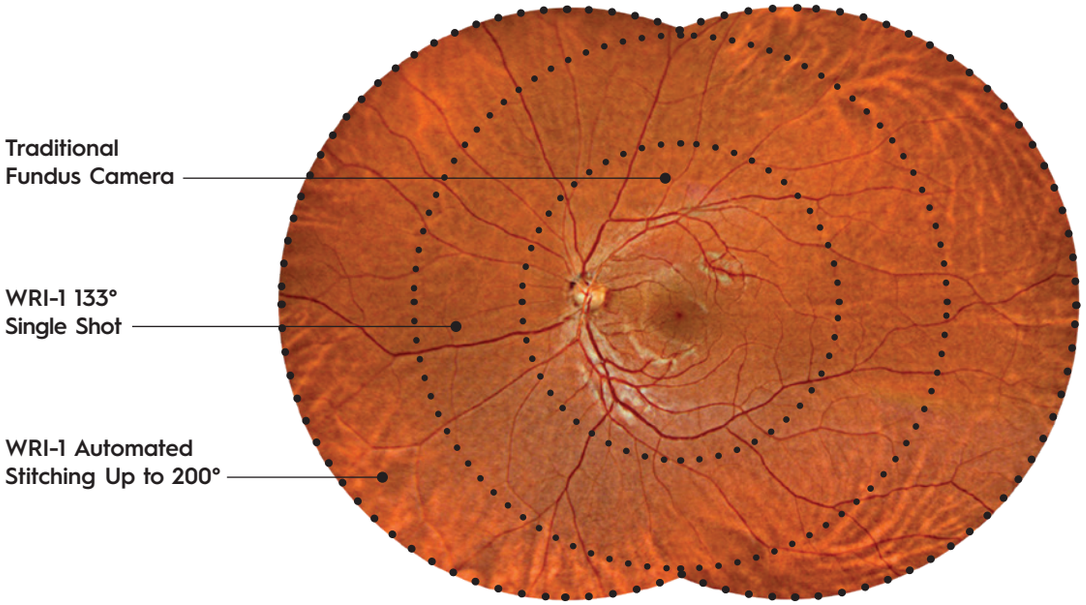
WRI-1

Expanded field of view* and streamlined imaging workflow

Up to 200° Retinal Photography

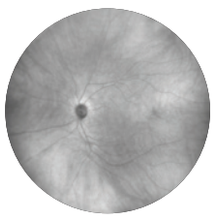
The WRI-1 captures high definition† retinal images with a 133° single-capture and up to 200° through two-image auto-stitch‡. By providing retinal insight up to the periphery, it complements the overall patient screening and helps appropriate referral to specialised eye care providers.



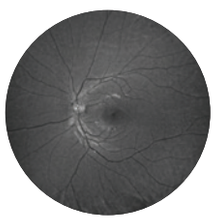
Widefield images with the WRI-1 supports further evaluation of retinal abnormalities, comprehensive documentation, longitudinal comparison, and patient education.



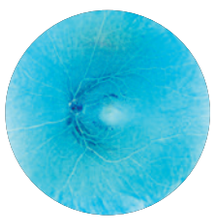
Full color



Infrared



Red free



Inverted color

One Image, Multiple Insights

The full visible-spectrum 4 LED array offers full-color imaging, enabling screening of the retinal periphery with clarity. Highlight specific/subtle details by using a suite of digital filters designed to differentiate retinal layers and enhance contrast.

Filters available:

Infrared, Red Free, Green Only, Inverted Color, Inverted Mono, Red Only.

*Widefield vs. Standard Fundus Imaging. †Pixel pitch resolution 12 µm. ‡Two pictures acquired with two pre-set fixation targets and automatically merged to cover up to 200°.

Screen and Evaluate Vision-Threatening Conditions

Non-Mydriatic Imager

The WRI-1 features a patient-friendly, low-intensity flash system that enables imaging through pupils as small as 2.5 mm and other conditions.

The non-mydriatic acquisition provides a comfortable patient experience, supporting routine retinal imaging.



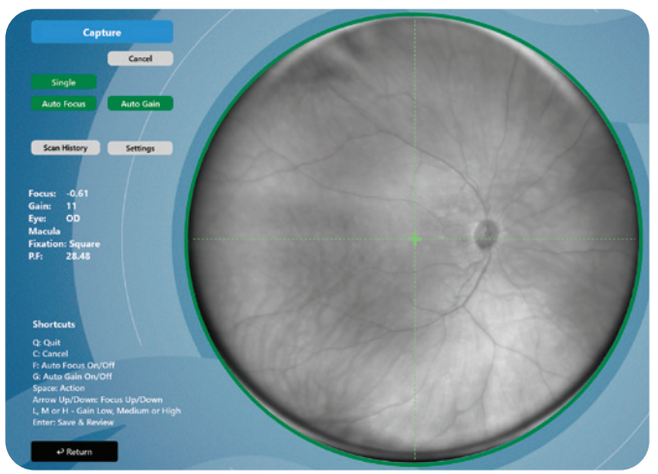
Designed for Clinical Workflow Integration

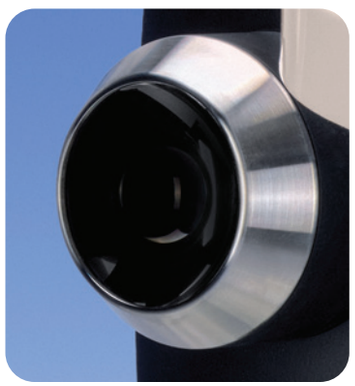
Combining an intuitive interface and patient-friendly capture, the WRI-1 is designed for ease of use and integration into a variety of clinical workflows. Real-time infrared imaging provides flexibility for optimal camera positioning.

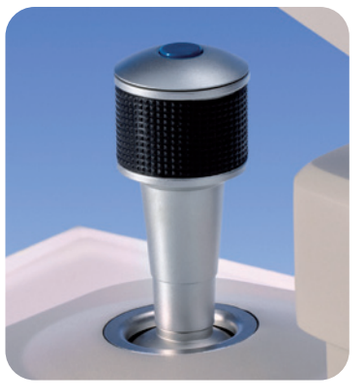
Precision Imaging with Auto Focus & Auto Gain

Automated focus and gain adjustments provide well-focused retinal images, helping standardize image acquisition.

Auto Gain Control (AGC) is a closed-loop feedback that keeps constant image output regardless of patient pigmentation, preventing retinal images from appearing too dark or bright (over-saturated).

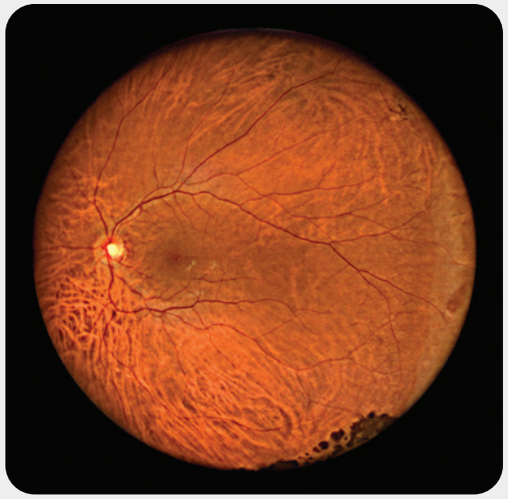


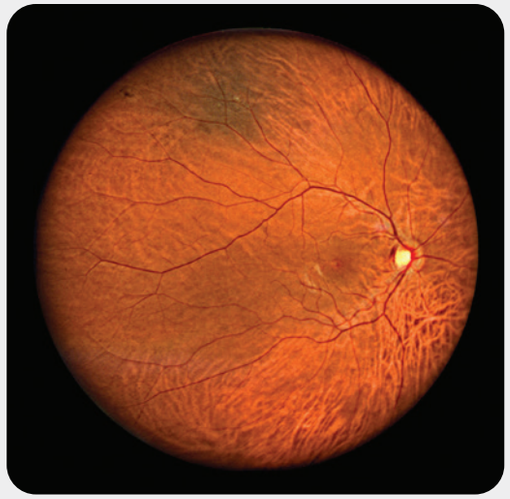




Widefield retinal images from 133° and more.

The steerable internal fixation facilitates image capture within the extended periphery encompassing regions beyond the up to 200° field of view.







Built for Connected Eye Care

Data Storage & Remote Access

Cloud-based storage[§] keeps your valuable patient data protected and readily accessible whenever and wherever.

Combined with flexible Remote Review Station and Web Review, it offers seamless data review for remote patient assessment and collaborative eye care across locations.

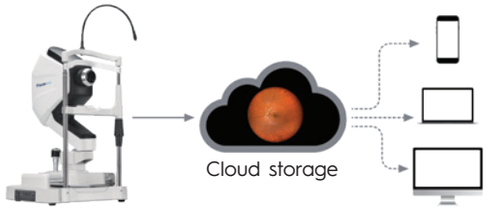
Seamless Connectivity

With support for shared network folders and standard DICOM, the WRI-1 fits seamlessly into a variety of clinical workflows.

Minimize Downtime and Costs

Thanks to Remote service feature[¶], no more waiting for onsite technicians.

Benefit from ongoing software updates and feature enhancements that help keep your system up to date with the latest innovations.





[§]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
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 Imaging™ WRI-1 is a EU Class I medical device intended for Optometry. CE marked. Manufacturer: Cellview Imaging Inc. 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 trademark of Essilor International.

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