WRI-1
FAQ

Discover high-quality
widefield retinal imaging

CELLVIEW IMAGING
ADVANCED OPHTHALMIC IMAGING SYSTEMS

A – Basic questions

1. What is the field of view of images taken with the WRI-1?

The WRI-1 captures up to 133° field of view (FOV) in a single shot, compared to the conventional fundus cameras that typically capture only 30°–50° of retina. With the two-image auto-stitching or montage feature, the device can extend coverage up to **200° field of view (FOV)** extending visibility closer to the ora serrata. This allows eye care professionals to screen, document, and observe peripheral retinal conditions that may go unnoticed with other narrower imaging methods.

2. Is the WRI-1 a true color fundus camera?

Yes. The WRI-1 is a **true-color fundus camera**, meaning it captures images in natural color without reliance on pseudo-color rendering.

3. What is included in the product offer?

The standard WRI-1 package includes:

- The WRI-1 imaging system, with a built-in computer and operating system, pre-installed with Cellview Imaging software.
- 24" monitor to act as a dedicated capture workstation.
- Power supply and cables.
- Extensive cloud-based storage to provide secure storage.
- Remote Review Station and Web Review for external and web-based workstations.
- Standard accessories for system setup and operation.

4. Can I put the WRI-1 on my consultation unit?

Yes. The WRI-1 is designed with a **compact footprint** and can be mounted on most standard consultation units or ophthalmic tables. Its ergonomic design ensures that it fits easily into clinics without requiring a dedicated room, making it ideal for both large practices and smaller offices.
Note: Dedicated references are available for extension cables.

5. Does the capture dazzle the patient?

No. The WRI-1 uses a quick and low-intensity illumination system that limits pupil constriction and patient dazzling. It allows the user to take multiples images of the same patient if needed.

6. Does the device use an automatic capture mode?

No. The WRI-1 operates like a slit lamp with a joystick, allowing fast and flexible image acquisition tailored to the patient's needs. The device operates at a distance from the patient's face and includes an auto-focus feature, minimizing operator dependency and shortening exam times, even for non-expert staff.

7. Can I easily get an image of the far retinal periphery?

Yes. The WRI-1 is specifically designed for **widefield imaging**, with optics that allow visualization of the peripheral retina up to 133° in a single capture or up to 200° using a two-image auto-stitch. Patients can be guided with fixation targets, enabling capture of superior, inferior, nasal, and temporal periphery.

8. Can I transfer the images to an external software?

Yes. The WRI-1 **supports the export of images in common formats** (JPEG, PNG, PDF, DICOM) for sharing, reporting, or consultation purposes. The software also includes the ability to share a link via email to another ECP, directly through the device.

9. How many viewer licenses can I use?

The WRI-1 package includes the Remote Review Station and Web Review by default, both provided free of charge. Unlike most competitors, which offer only 3–5 licenses and charge significant annual licence fees, the WRI-1 allows clinicians to review images on multiple workstations across clinics without additional costs, regardless of practice size.

10. What is the backup method and storage capacity?

The WRI-1 software offers an extensive cloud-based storage solution, ensuring images are securely archived, easily retrievable, and protected from data loss. This feature is available free of charge compared to other competitors and allows easy remote review of data.
The WRI-1 capture workstation comes with a dedicated internal storage used to temporarily stores images and patient data before the cloud synchronization.

B – Quick sales reference sheet \ Basic questions summary

Field of view

- **133° single capture**, up to **200° with auto-stitching**.
- Captures far periphery (closer to ora serrata).

True color

- **Yes**. Natural, high-quality fundus images (not pseudo-color).

What's included

- WRI-1 imaging system (with built-in computer & software).
- 24" monitor (dedicated capture workstation).
- Power supply & accessories.
- **Extensive cloud storage** (secure, no added cost).
- **Remote Review Station and Web Review** (no annual fees).

Clinic integration

- **Compact footprint** – Compatible with most consultation units and tables.

Patient comfort

- **Low-intensity, non-dazzling flash**.
- Reduces pupil constriction, enabling multiple captures.

Capture mode

- Operated like a slit lamp with joystick.
- **Auto-focus included** for speed and consistency.

Peripheral imaging

- **Up to 200° with two-image auto-stitch**.
- Easy fixation-guided capture of all quadrants.

Image transfer

- **Easy and efficient** export in JPEG, PNG, PDF and DICOM format
- Ability to also share via secure email link.

Viewer licenses

- **Flexible Remote Review Station and Web Review** (competitors typically charge per license).

Backup & Storage

- **Extensive cloud backup** + dedicated internal workstation storage.
- No extra fees (competitors charge significant annual costs).

› Specific billing on the US market:

- The approriate CPT code that applies for fundus imaging is the 92250 (Fundus photography with interpretation and report).
- Screening usage is not billed with the 92250 code but rather as a self-pay health screening for the eye. The patient generally pays $25-$40 for the screening.

C – Advanced questions

1. How does the Cellview improve screening capabilities?

Traditional fundus cameras capture only 30°–50° of retina, often missing retinal defects in the far periphery. However, the WRI-1 provides 133° in a single shot and up to 200° via two-image auto-stitching. This allows clinicians to:

- **Widen retinal coverage** and observe peripheral retinal conditions that may go unnoticed with other narrower imaging methods.
- **Have multiple visualization options** to refine the image rendering thanks to the full spectrum LED array with both color and infrared capabilities.
- **Strengthen patient involvement** by offering quick and comfortable acquisition.
- Perform retinal imaging even **in challenging cases**, those involving small pupils and media opacities - thanks to the products advanced scanning technology and swivelling movement.

In practice, this means a tool assisting in widening retinal assessment, simplifying patient triage and supporting documentation and patient education.

2. How does this integrate with my current workflow?

The WRI-1 was designed with ease of integration in mind, so clinics do not need to redesign workflows or introduce additional complexity:

- **Compact design** fits on standard consultation units — no need for a dedicated room.
- Operated like a **slit-lamp with joystick control** — familiar to technicians, minimizing training time.
- **Auto-focus and intuitive capture software** reduce operator dependency.
- **DICOM compatibility and standard export formats** (JPEG, PNG, PDF) ensure seamless integration with existing **EMR, PACS, and reporting systems**.
- **Extensive cloud storage and Remote Review** mean images can be accessed anywhere in the clinic, across multiple providers, without extra fees or restrictions.
- Images can be captured in **under a minute**, undilated during pre-testing or for screening purposes supporting patient throughput while providing valuable information.

As a result, the device integrates seamlessly into the clinic's existing workflow, without disrupting it.

3. What are the advantages of using the WRI-1 in clinical practice?

The WRI-1 helps in providing valuable documentation for medical record, simplifying the comparative analysis and supporting patient education. It is particularly useful for capturing peripheral retinal images in between dilation in asymptomatic patients or for those who cannot undergo pharmacologic dilation due to medical contraindications or intolerance.

In short: **any condition with peripheral involvement benefits most**, and this is where Cellview helps clinicians see more, earlier.

4. What is the ROI for this instrument?

The WRI-1 provides strong return on investment across clinical, operational, and financial dimensions:

Clinical ROI

- Wider retinal overview highlighting **potential abnormalities up to the periphery**.
- Improves patient triage and referral to specialized professionals.

Operational ROI

- **Joystick control and streamlined workflow** for a minimal exam time, allowing for high patient throughput.
- **Extensive cloud storage, Remote Review Station and Web Review** reduce IT and licensing costs (competitors charge thousands annually).
- Requires minimal training, allowing staff to become proficient quickly.

Financial ROI

- Enables billing for **fundus imaging and other related imaging codes**.
- Supports referral capture and **practice reputation** by offering modern imaging.
- Eliminates recurring fees (licenses, storage), creating a **lower total cost of ownership** compared to competitors.

Example: The average mid-sized clinic see between 12-20 patients per day. Assuming approximately 50% of those patients receive imaging at a conservative ~$35 reimbursement (depending on the country) could generate **$50,400+ annually** through billable retinal imaging, paying back the device within 7 months, while continuing to deliver value long-term. This is a significantly reduced payback period compared to competitive widefield retinal imaging devices in the market.

› Positioning summary for Sales Reps:

The WRI-1 pays for itself by **screening retinal conditions, streamlining your workflow, and cutting costs** that competitors build in — while supporting patient outcomes and differentiating your practice.

D – Technical questions

1. What is the backup method and storage capacity?

- The WRI-1 includes an **extensive cloud-based storage**. The internal storage in the workstation is used to temporarily store patient images and data before cloud synchronization.
- This dual system ensures redundancy: images are safely retained on the device and automatically backed up securely in the cloud.
- Many competitors charge recurring fees for storage, but Cellview includes it free of charge.

2. Can the data be stored in a local network with a local server?

- Not at this time. However, enable a local backup solution for specific IT environment is under discussion.

3. How much data can be stored on the computer?

- The built-in microcomputer includes **128 GB of internal storage**, capable of storing **approximately 6,500 images** before requiring archiving.
- Combined with the extensive cloud storage, there are effectively **no practical limits** to storage capacity.

4. Is an internet connection required?

- **Initial activation and installation**: Yes, internet connection is required.
- **Core imaging functions**: No, the WRI-1 captures and stores images locally without internet.
- **Cloud backup, software updates, and remote support**: Yes, an internet connection is required.
- Clinics without consistent connectivity can operate locally and sync later when online.

5. Does it support modality worklist?

- Not at this time. However, a project is **currently underway** to add DICOM Modality Worklist support.

6. Are there any transportation issues/damages?

- The WRI-1 is designed with a **compact and sturdy form factor** for safe transport.
- During shipment, it is packaged in **shock-resistant foam and custom crates** to prevent transit damage.
- For relocation within clinics, the unit can be moved safely on most standard equipment trolleys but should be **packed correctly using original packaging** to secure the product and avoid damages.

7. What are the recommended bandwidth requirements?

- **Minimum 50 Mbps** is recommended.
- At this speed, images transfer securely without disrupting other clinical workflows.

8. Which operating system runs on the microcomputer?

- The Beelink "Mini S" 8G/128G runs **Windows 10 IoT** LTSC 2021 Build 21H2.
- This version is supported up to 2032.
- This ensures stability, security, and long-term support while meeting medical device compliance standards.

9. What is the resolution supported for the screen?

- The included 24" monitor supports **Full HD (1920 × 1080)** resolution.
- The application interface and images are optimized for this resolution, ensuring sharp image review and user comfort.

10. What network port does the application use?

- The WRI-1 uses the following ports:
  - **Port 1433 → Microsoft SQL Server** - This is the default port used for database communication.
  - **Port 80 → HTTP (unencrypted web traffic)** - Used for standard, non-secure web communication.
  - **Port 443 → HTTPS (secure web traffic)** - The most common port for secure, encrypted internet communication. Ensures that any data sent between the software and external servers/cloud services is protected.
- IT departments can easily configure firewall permissions accordingly.

11. What are the URLs used by the application?

- The URLs used are:
  - *.azurewebsites.net
  - CELLVIEWID.blob.core.windows.net
  - CELLVIEWID.vault.azure.net
  - CELLVIEWID.database.windows.net
  - management.azure.com
  - login.microsoftonline.com
- Where CELLVIEWID is the organization ID given by central TBS today.

› Positioning summary for Sales Reps:

The WRI-1 not only delivers widefield, true-color imaging, but it also fits seamlessly into clinical and IT workflows with robust storage, secure cloud integration, and DICOM compatibility — without the added costs competitors typically charge.