

Platform for Ophthalmic Image Management  
and Device Integration



HEIDELBERG  
**EYE EXPLORER**  
HEYEX2

**HEIDELBERG**  
**ENGINEERING**

## A secure, scalable platform to streamline image management, device integration and data sharing

As the image management platform for all Heidelberg Engineering products, **HEYEX2** scales from a small practice with just a single device to a large enterprise with hundreds of imaging devices across multiple sites.

By investing in HEYEX2, you can:

- **Enjoy enhanced security and stability**
- **Configure a scalable solution to meet your individual needs**
- **Streamline your workflow to increase efficiency**
- **Bring everything together in one view**
- **Experience the simplicity of secure and seamless sharing**



Dual screen mode with the Data Manager (left) and the Multimodality Viewer (right) for the most efficient use of the system

## Enjoy Enhanced Security

Heidelberg Engineering devices are updated with the latest cyber security features to ensure that all patient records and images are secure.

### Protect patient data

Whether you are a small eye care practice or a large hospital department, cyber security is not only an IT problem; it is essential to patient safety. HEYEX2 technology safeguards patient data internally and externally.

### Improve compliance

Vendor neutral archiving and automated backups allow you to focus on delivering the best patient care instead of administrative tasks. Centralized log management and auto-logout improves compliance and makes efficient use of your floating licenses.



## Configure a Scalable Solution to Meet Your Needs

Designed to improve its availability when your business demands more resources, HEYEX2 provides the perfect foundation for growth.

### Start with a robust database and infrastructure

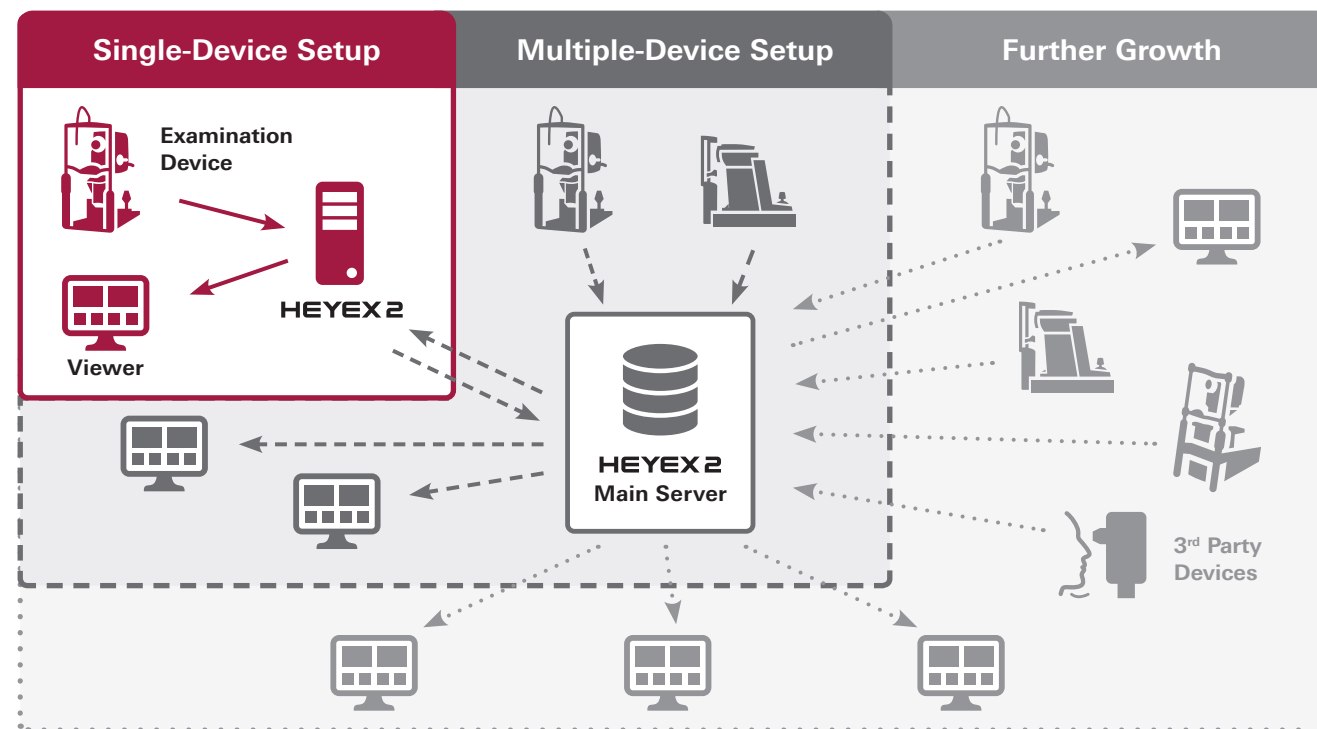
The SAP® SQL database builds the foundation for the stability and scalability you need. Fast retrieval of large image files and simultaneous access to the same patient record, examination, and image by more than one user improves workflow efficiency and system stability. Setting up the infrastructure properly with a scalable SAP® SQL database will support a growing number of devices and workstations over time. HEYEX2 also supports customized server virtualization.

### Update all users from a single-source

The central software distribution simplifies future updates and upgrades, allowing instant access to new functionality across the network – for a seamless and up-to-date workflow.

### Expand your scope

With multisite compatibility you can ensure efficient data exchange, even in large clinics with satellite offices. Invest in a future-proof solution and expand your scope to support a mobile working environment.



### Experience the power of PACS

The power of the HEIDELBERG EYE EXPLORER ecosystem extends beyond our own product portfolio. With its roots in radiology, HEYEX2 PACS\* is a Vendor Neutral Archive (VNA). Built on industry standards, HEYEX2 PACS offers third party device integration, interfaces to Electronic Medical Record (EMR) and Hospital Information Systems (HIS), and advanced archiving and backup options.

### Add third party devices

The scalable design of HEYEX2 allows you to easily store DICOM images directly to the existing VNA or upgrade to HEYEX2 PACS functionality when you are ready to integrate other devices into the HEIDELBERG EYE EXPLORER ecosystem. The Generic Acquisition Module makes it possible to import any type of image (non DICOM) and record the laterality, to consolidate all image data and enhance efficiency.

### Integrate EMR data

Optimize your workflow with the seamless integration into your EMR. Order additional scans, integrate important numeric data into the patient overview, review reports from within, and launch HEYEX2 directly from your EMR to access more detailed information.

\*Optional features. Additional fees may apply.



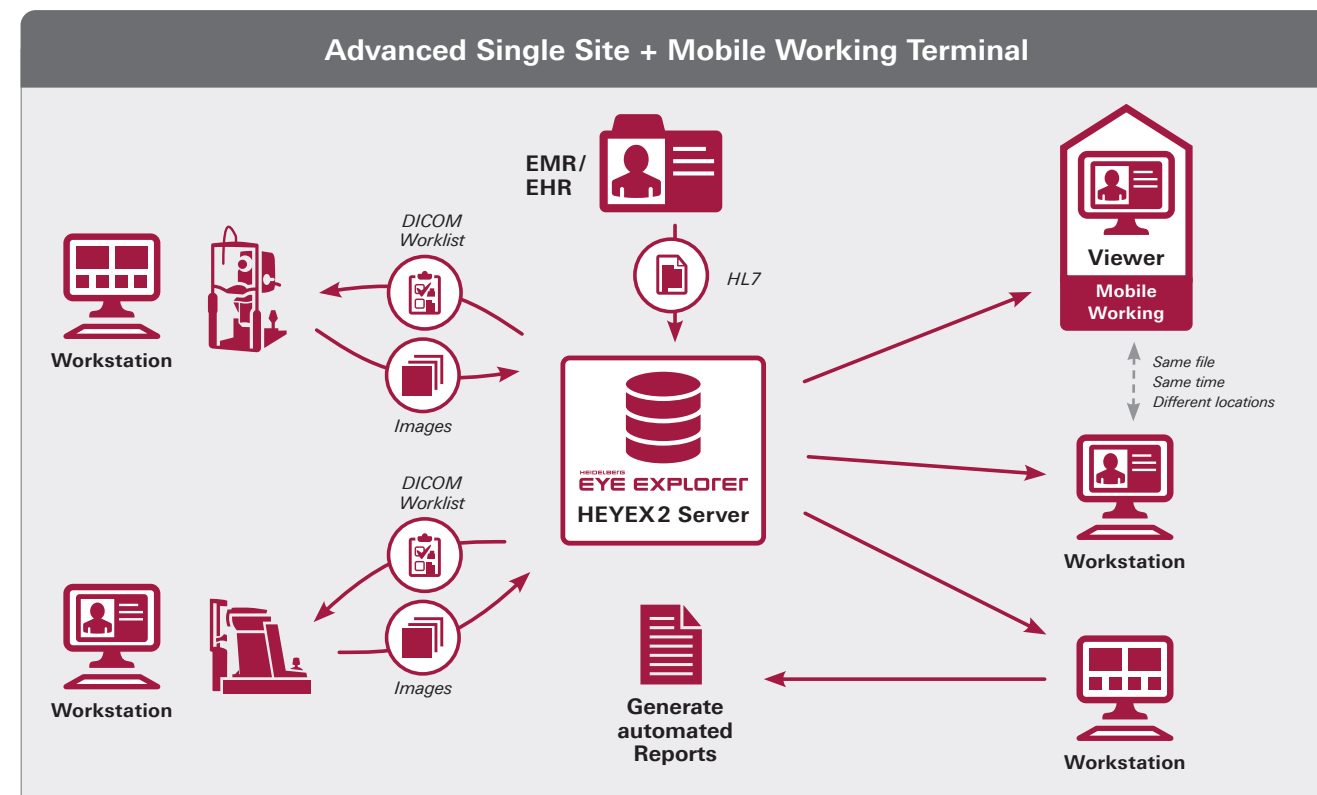
**Streamline Your Clinical Workflow**

**Configure your own view**

The configurable user interface provides the data you want and the functionality you need, tailored by individual default settings. For example, you can increase your view by collapsing the menu bars and create a “favorites” toolbox accessible at the touch of a button. Additionally, the HEYEX2 navigator gives a 3D view of the patient with procedures, thumbnail images, and reports all in one view.

**Access images and clinical tools from any workstation**

The HEIDELBERG EYE EXPLORER ecosystem makes every Heidelberg Engineering device a HEYEX2 workstation, giving you access to the clinical functionality on every device. All clinical viewing and analysis tools available on Heidelberg Engineering devices- including the powerful lightbox and Multimodality Viewer- are embedded into the HEYEX2 platform.



**Optimize efficiency with modality worklists**

Increase efficiency by assigning modality worklists to all devices or operators. In addition, you can request scan protocols on multiple devices by pathology, device, or consultant.

**Generate intuitive reports automatically**

The ability to create and save reports helps to standardize your processes and save time. Automated reports provide quick access to all the relevant information needed for a faster assessment of each patient.

**Improve compliance and efficiency**

Transform your workflow and improve compliance by ordering directly from your EMR. Standardized interfaces connect HEYEX2 to HIS and EMR to access patient diagnostic and treatment data, demographics, and relevant billing information to holistically streamline clinical routines.



## Bring Everything Together in One View

Unleash the powerful HEYEX2 Multimodality Viewer to transform your data from a wide range of imaging device modalities, as well as multiple visits into clinical intelligence in a single view. The Multimodality Viewer allows you to:

- Drag and drop images and reports onto one of the preconfigured formats.
- Create your own viewing protocol.
- Simultaneously review images from both eyes, from any available modalities.
- Play multiple FA/ICGA videos at the same time.
- Enjoy additional editing tools.
- Zoom or adapt contrast and brightness to your preference by moving the mouse.
- Make annotations within the viewer for easy access to your notes.
- Use a dual monitor mode for more insights and information at a glance.



True multimodal image management for a comprehensive overview.

## Experience the Simplicity of Secure Sharing

Access to the **HEYEX2 Cloud Exchange\*** makes sharing data and images simple and secure beyond your own organization without a VPN connection. Exchange data directly with insurance providers, referral networks, multisite enterprises, and multicenter research collaborators. Unique peer-to-peer exchange technology raises the standard for simplicity and security.

### Set up quickly and easily

Set up customized studies, contacts, and locations in seconds to improve efficiencies and share data securely with confidence.

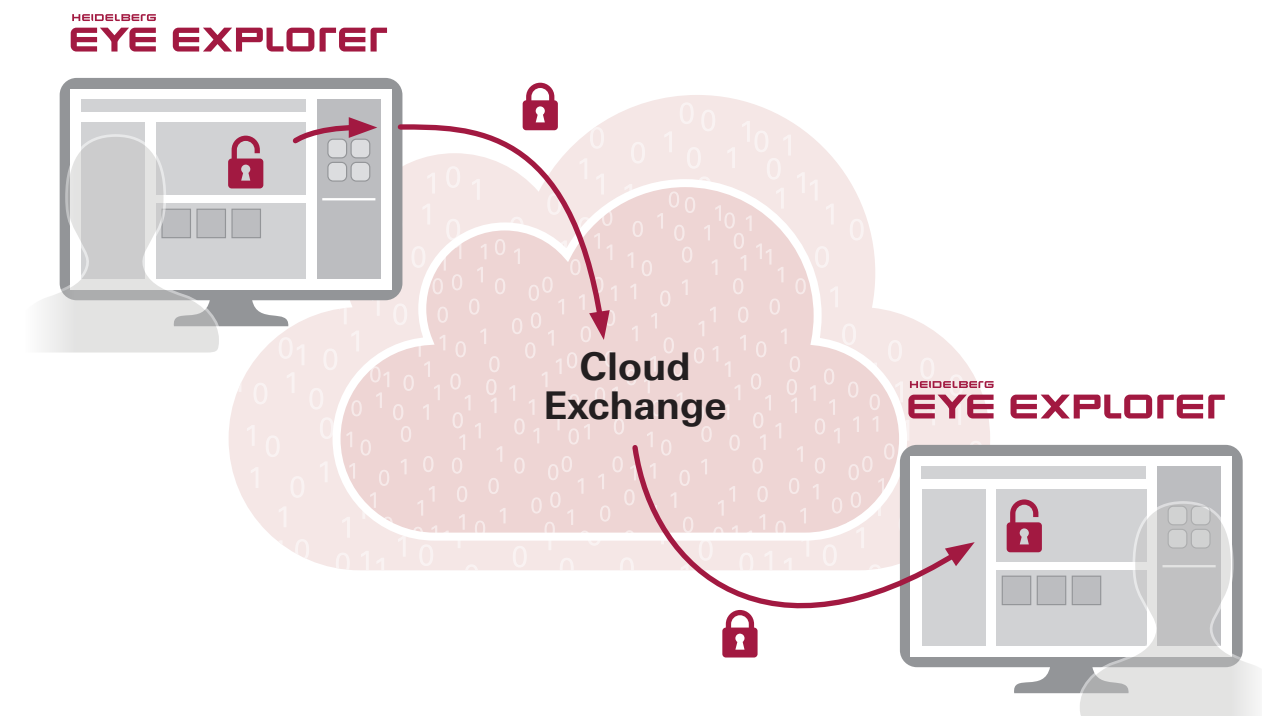
### Share with one click

The simple drag and drop feature allows sharing of complete data sets with a colleague, a different department, across sites, or even other institutions with one click, giving you the option to anonymize the patient automatically.

### Safeguard patient data

HEYEX2 Cloud Exchange provides a simple end-to-end encrypted, peer-to-peer data transfer.

\*Optional feature. Additional fees apply.



## Your Secure Way to Ophthalmic Apps



**Heidelberg AppWay** is a secure gateway to access both clinical and research ophthalmic applications, and AI algorithms that can offer additional insight into diagnostic images for both Heidelberg Engineering and third-party devices.

-  **Secure**
-  **Simple**
-  **Seamless**

## Access AI Analytics

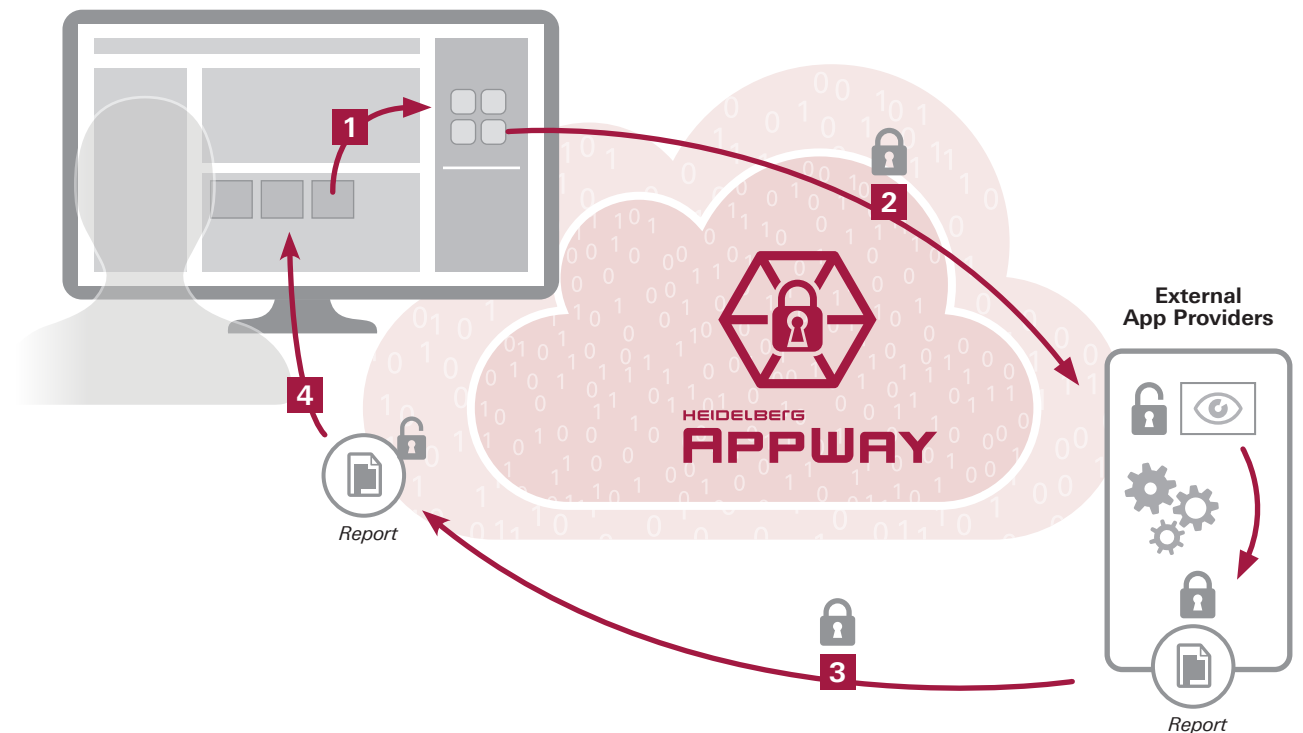
Utilizing the HEYEX2 Cloud Exchange technology, **Heidelberg AppWay\*** allows you to choose from multiple third-party SaaS (software as a service) solutions from within HEYEX2.

With the rapid development and market introduction of deep learning algorithms for decision guidance and diagnostic insight, Heidelberg AppWay offers a compliant and secure workflow to combine the power of Heidelberg Engineering image quality and analytical or artificial intelligence (AI) applications for clinical routine and scientific research.

Heidelberg Engineering has partnered with SaaS and AI companies to provide secure access to a growing portfolio of innovative ophthalmic apps.

\*This feature is only available for HEYEX 2 customers. Usage fees are paid directly to the third-party company. If the App is not currently FDA cleared for use in the US, it may be available under IRB.

### HEIDELBERG **EYE EXPLORER**



- 1 Drag and drop the image file onto the icon of the desired app.
- 2 Encrypted and pseudonymized data is sent to the external app provider via the Heidelberg AppWay cloud.
- 3 Encrypted analysis report is sent back to HEYEX2 via Heidelberg AppWay.
- 4 The report is decrypted and the pseudonymisation is removed. The report is assigned to the corresponding patient in HEYEX2.

HEYEX 2 is ASHVINS variant HEYEX2 / HEYEX PACS manufactured by MedicalCommunications GmbH.  
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