

SYNAPSE 3D ADVANCED VISUALIZATION

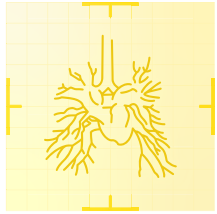
For more comprehensive and confident imaging assessments.

Progressive architecture. Practical applications. Extensive analyses.



SYNAPSE[®]
Enterprise Imaging

FUJIFILM
Value from Innovation



SIX CHALLENGES. ONE SOLUTION.

Today's image visualization requirements introduce unique challenges and present new opportunities to strengthen 3D software that can stand on its own or function as a supplementary, yet vital, component of an all-inclusive enterprise imaging strategy.

Click on the challenges below to learn more.

1

INTEGRITY →

Clinical teams and IT administration are confronted with assembling a complete enterprise imaging system that offers advanced visualization capabilities, including image analyses, reporting, and collaborative treatment planning.

2

SCALABILITY →

Advanced image visualization analyses require considerable architectural resources—especially as systems grow. To keep pace, organizations are pursuing 3D solutions with the flexibility to adapt.

3

PRODUCTIVITY →

Care teams need reliable solutions that help boost output and facilitate collaboration between technology and teams.

4

DEMAND FOR EFFECTIVE APPLICATIONS →

Providers expect features that accommodate their real-world needs, with personalized application packages that support their day-to-day tasks.

5

INHERENT CARDIOLOGY SUPPORT →

Admins continue to push for a design that unites cardiovascular needs with universal imaging requirements.

6

INNOVATION →

To meet the demands of today's rapidly evolving healthcare environment, providers need technologies that navigate their decision making today, while preparing them for a future driven by artificial intelligence (AI).

Synapse® 3D—part of Fujifilm's innovative, AI-enabled Synapse® Enterprise Imaging (EI) portfolio—is the solution to these challenges. Its advanced image analysis technology aids with clinical interpretation, reporting, and treatment planning while enabling exam sharing across the enterprise to promote effective care collaboration.



1

DISCOVER THE POTENTIAL OF YOUR ENTERPRISE IMAGING STRATEGY WITH A PROGRESSIVE VISUALIZATION ENHANCEMENT

Support efficient, accurate, and exceptional patient care. Fujifilm's Synapse product portfolio comprises one of the most comprehensive collections of enterprise imaging (EI) technologies on the market and features assets that include Radiology and Cardiology PACS, **3D**, Vendor Neutral Archive (VNA), Information Systems, Enterprise Viewer, Cloud Services, and AI.

Advanced and applicable image assessments.

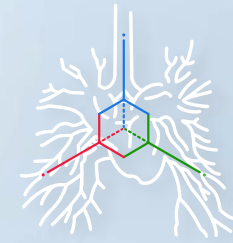
Synapse 3D meets a variety of clinical visualization needs with more than 50 specialized applications that aid healthcare professionals with interpretation, reporting, and treatment planning.

Flexible implementation.

Integrate Synapse 3D to augment other Synapse EI products and third-party software or deploy as a standalone advanced visualization system.

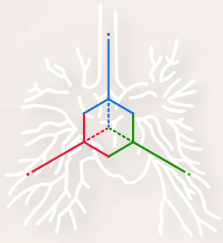
Archetype for AI R&D.

Prepare for an AI-driven future as Synapse 3D's intricate imaging algorithms help to lay the foundation for **REILI**, Fujifilm's AI-enabled platform.





2



SUPPORT BOUNDLESS GROWTH WITH SCALABLE ARCHITECTURE

Power robust, high-performing advanced visualization software suitable for any institution and back even the most complex imaging decisions with Synapse 3D's secure and sophisticated server-side technology.

Compatibility.

Permit system-wide use with pervasive web-based software.

Versatility.

Allow for user-defined implementations with physical and virtual servers.

Optimized memory management.

Redirect available resources to maintain a seamless user experience when using an application that requires increased computing power.

EXPERIENCE SIGNIFICANT SERVER-BASED IMAGE RENDERING BENEFITS WITH SYNAPSE 3D:

- Reduce workstation requirements, resulting in minimal to no IT assistance.
- Leverage server computing power to fully prepare images for display.
- Use broader server-side bandwidth to optimize large dataset management.
- Execute complex AI computations to foster a new tier of clinical confidence.

ENHANCE PRODUCTIVITY AND COLLABORATION WITH DEPENDABLE WORKFLOWS

Quickly and accurately deliver imaging results that enhance the way images are seen and support more confident decision making with a series of high-tech applications developed in tandem with clinical specialists.

Zero-click preprocessing.

Deliver faster image results with precaching and automated prerendering capabilities.

Expedited processes.

Eliminate inefficiencies and manual operations with macro-driven multistep processes.

Snapshot technology.

Support continued, collaborative workflows with work state hand-off to another user.

Common UI.

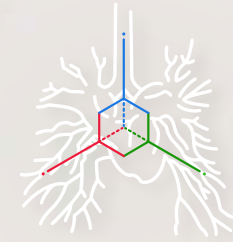
Promote ease of use with shared tools that offer the same appearance and functionality among 3D applications.

Application linking.

Access up to five applications concurrently for multitasking and parallel operations.

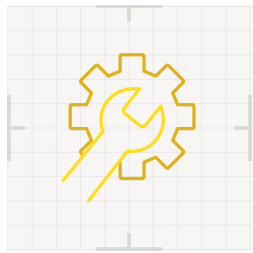
Customized, consistent settings.

Establish preferences that follow the user to any Synapse PACS workstation and can be copied and shared to build communal workflows.

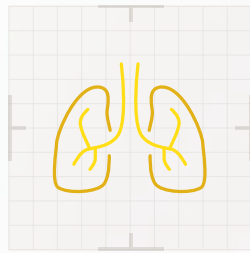


MEET UNIQUE VISUALIZATION NEEDS WITH RELEVANT APPLICATIONS

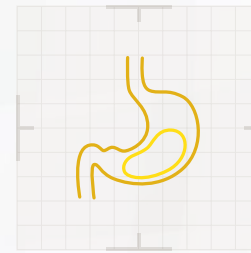
Synapse 3D provides healthcare professionals with an extensive collection of applications for advanced image visualization and analysis, available via preferred packages and individual purchases. Base tools provide day-to-day 2D, 3D, and 4D image analyses, while clinically specific tools aid trained users with interpretation, reporting, and treatment planning.



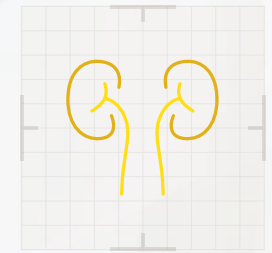
Base tools



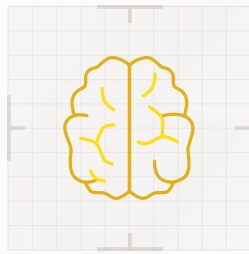
Pulmonology



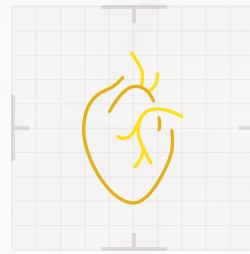
Gastroenterology



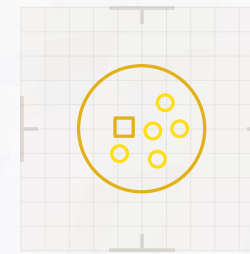
Urology



Neurology



Cardiology



Oncology

For more information about these applications, please refer to the [Synapse 3D product data sheet](#).



5

DISCOVER INDISPENSABLE TOOLS FOR ELEVATED CARDIOLOGY CARE

Created in partnership with cardiovascular specialists, Synapse 3D introduces essential, native cardiology applications designed to analyze specialized findings and guide assessments.

Integrated and compliant structured reports.

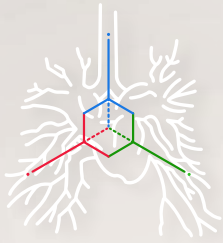
Produce reports that adhere to the Society of Cardiovascular Computed Tomography (SCCT) guidelines, comply with the American Heart Association (AHA) guidelines, and integrate with Synapse Cardiology structured reports.

Quick application access.

Launch Synapse 3D with a single click from Synapse Radiology or Cardiology PACS, delivering advanced volume visualization directly to the end user.

SYNAPSE PACS FOR A NEW STANDARD IN ENTERPRISE IMAGING MANAGEMENT.

Enable access to massive radiology and cardiology datasets with next-generation, secure server-side technology and a zero-download viewer capable of proficiently supporting your enterprise imaging needs.



AI-READY FOR WHAT LIES AHEAD

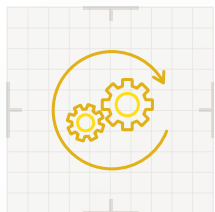
Fujifilm is dedicated to continuous innovation and advancing imaging technology now and in the future. With the introduction of the AI-enabled platform **REiLI**, Fujifilm is merging its world-renowned imaging legacy with today's cutting-edge AI innovations.

Some of the AI research-and-development activities underway include:



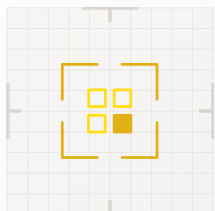
Computer-aided detection.

Reduces time of image interpretation and supports radiologists' clinical decision making.



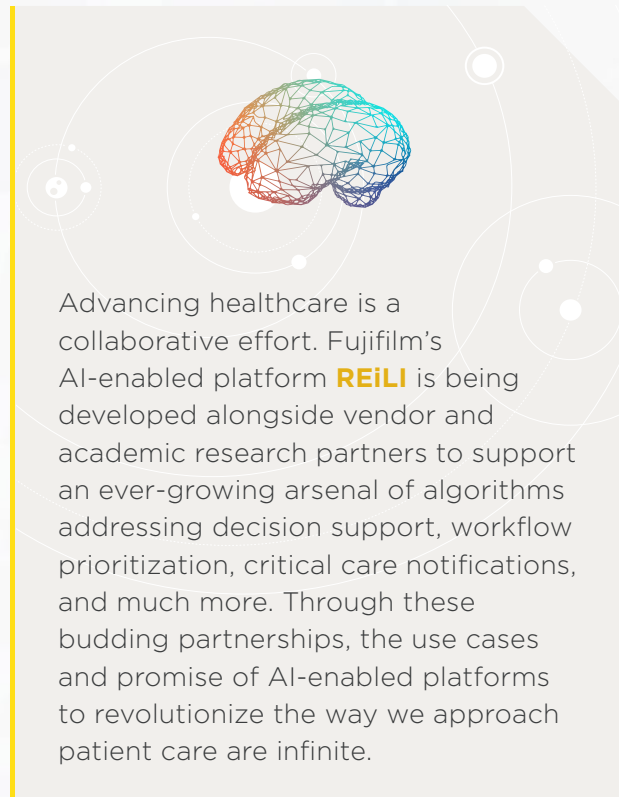
Workflow support.

Provides optimal study prioritization based on findings, notifies care teams of critical results, and automates report population. Through these functionalities, care teams can take the consequential actions needed to help save lives.

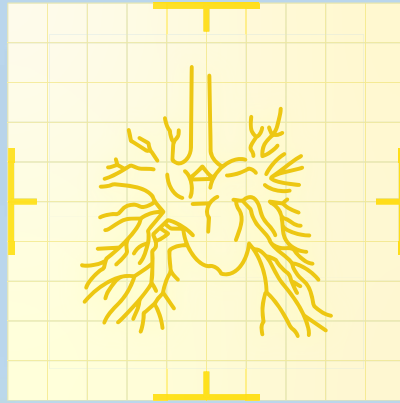


Region recognition.

Accurately recognizes and consistently extracts organ regions, regardless of deviations in shape, presence or absence of disease, and imaging conditions.



Advancing healthcare is a collaborative effort. Fujifilm's AI-enabled platform **REiLI** is being developed alongside vendor and academic research partners to support an ever-growing arsenal of algorithms addressing decision support, workflow prioritization, critical care notifications, and much more. Through these budding partnerships, the use cases and promise of AI-enabled platforms to revolutionize the way we approach patient care are infinite.



MAKE MORE-INFORMED DECISIONS FASTER WITH ADVANCED IMAGE VISUALIZATION

Improving the way images are seen and shared across the enterprise can help providers deliver efficient, accurate, and exceptional patient care. Synapse 3D's advanced visualization software seamlessly performs state-of-the-art image analyses to aid with interpretation, reporting, and treatment planning while facilitating exam sharing to support clinical collaboration. With more than 50 unique applications spanning multiple specialty areas, **Synapse 3D** brings new meaning to advanced image visualization.

SYNAPSE[®]
Enterprise Imaging

Radiology PACS | Cardiology PACS | 3D
VNA | Enterprise Viewer | Cloud Services
Information Systems | Artificial Intelligence

**In 1936, we launched our
healthcare business with
x-ray film, and we haven't
stopped innovating since.**

For more than 80 years, we've continued to transform ourselves so we can help healthcare organizations like yours make the world a healthier place. As the industry advances, we'll continue adapting—finding new ways to apply our unique technologies to solve preeminent healthcare challenges.

We'll never stop iterating and developing digital solutions that progress radiography, endoscopy, ultrasound systems, healthcare IT, pharmaceuticals, and regenerative medicine—and the Synapse[®] Enterprise Imaging portfolio represents this commitment to continuous innovation.

For more information, visit

3DEnterpriseImaging.com

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