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Information Technologies Inc.

INNOVATIVE
HEALTHCARE
SOLUTIONS

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INNOVATIVE · RELIABLE · CONNECTED

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ABOUT US

Simplex Information Technologies Inc., based in Ankara University Technopolis, is a highly specialized information technology company focused on industrial internet applications within the healthcare sector.

Simplex delivers genuine value by delivering innovative industrial software platforms and applications for the healthcare sector. The company aims to become a global leader by developing products that are both scalable and sustainable.

"We help you enhance your performance by optimizing patient workflow effectively."

Key examples of our solutions include teleradiology systems that expand access to medical imaging, clinical decision support tools that optimize procedure selection, management systems that streamline clinical workflows, and operational surveillance systems that enable proactive healthcare management.

Simplex's strengths lie in its experienced and skilled leadership, its willingness to take calculated risks, and a highly educated, innovative workforce that embraces change and drives excellence.

KEY PROJECTS

- **Turkish MOH National Telemedicine System:** Since 2016, Simplex has been developing the National Telemedicine System (NTS) for the Turkish Ministry of Health. This system interconnects 2,400+ public and private hospitals, integrating 96 different HIS and 46 different PACS/RIS systems. It enables patients and doctors to access radiological exams and reports through a unified platform. As a result, the Ministry of Health has achieved an annual cost saving of approximately 100M USD.

- **Istanbul Health Directorate Imaging Repository:** Within the scope of this project, PACS and RIS services are provided to 60% of the public hospitals in Istanbul, serving over 10M patients. All the hospitals are interconnected through a state-of-the-art XDS-I repository, allowing data and task sharing across the enterprise.

- **Etlik City Hospital PACS, RIS, VNA:** With over 3,600 beds, 1,200 imaging devices, 15K exams performed on a daily basis, Etlik City Hospital is Europe's largest hospital utilizing RAD-X enterprise solutions.

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WHAT WE OFFER

We optimize your workflow with AI-powered medical imaging and radiology information systems

Simplex is committed to understanding and addressing the needs of its clients by bringing together creative, visionary, and passionate professionals.

Our goal is to drive meaningful and lasting change by providing tools that help shape healthcare policy and optimize resource allocation. Through focused action on key healthcare challenges, we aim to transform the system from "as is" to "as it should be"—delivering care that is both sustainable and affordable for all.

Simplex also prioritizes strategic positioning and continuous innovation, developing products that generate measurable clinical, operational and financial improvements.

OUR SOLUTIONS

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We integrate state-of-the-art healthcare technologies to revolutionize the way healthcare professionals deliver patient care.

- RAD-X PACS – Smart archiving and communication for medical imaging
- National Telemedicine System – Seamless healthcare access anytime, anywhere
- MED-X Radiology Information System – Streamlined radiology workflows
- VISION-X Endoscopy Application – Fast, clear, and accurate endoscopy reporting
- Breast Information System – Comprehensive breast health management
- Digital Pathology Viewer and Information Systems – Next-level diagnostics with digital slide technology

With our innovative solutions, healthcare professionals achieve greater efficiency, precision, and confidence — leading to better outcomes for every patient.

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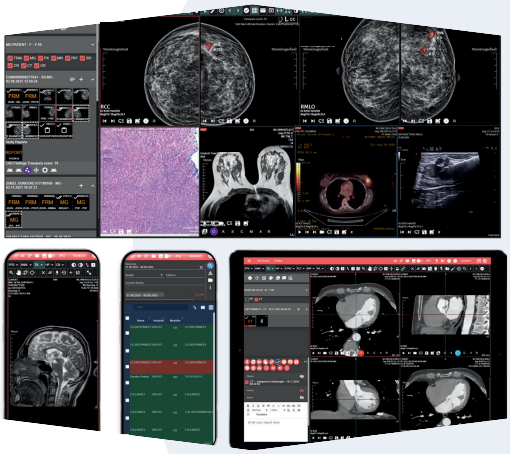
RAD-X
Teleradiology Solution



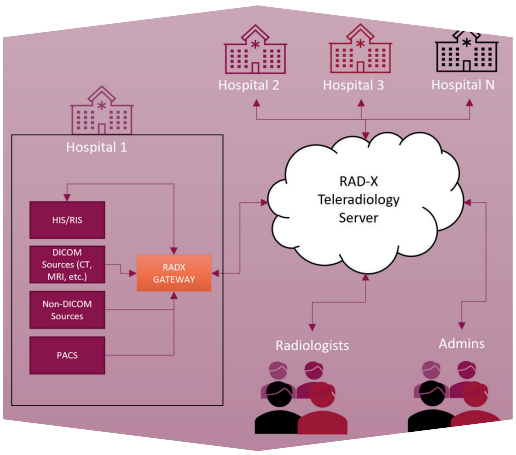
RAD-X reduces turnaround times with fully customizable workflows and a user-friendly, web-based interface accessible from any device, including smartphones.

With exam prefetching technology, it enables fast reporting even at low bandwidths while supporting all modalities including PET, CT, MRI, and digital pathology. The built-in VNA feature allows seamless sharing of images, documents, and video files, complemented by video consultation and chat functions for full collaboration between users. Integrated audio, text, and structured reporting tools ensure efficiency, while HIS and LIS integration capabilities provide access to lab results and all relevant patient data.

Trusted by over 1,000 radiologists, it is designed to deliver speed, flexibility, and reliability in every workflow.

Centralized Flexible Architecture

The RAD-X Teleradiology Server offers flexible deployment, whether on dedicated physical or virtual servers, or through leading cloud providers such as AWS. With the RAD-X Gateway application, hospitals gain a secure channel for exchanging information between their internal systems and the RAD-X server.



The gateway supports a wide range of integration standards — including IHE XDS, DICOM query/retrieve, DICOM store, WADO retrieve, HL7, FTP, NFS, and SQL — ensuring seamless connectivity with both legacy and modern PACS and HIS systems. All external transfers can be anonymized or de-identified to ensure data protection. Images can either be stored on the teleradiology server or retrieved from the hospital on demand, directly from modalities or PACS systems.

Relevant exam and patient data flow from HIS/RIS into the system, while finalized reports are automatically sent back, ensuring smooth clinical workflows. Advanced authorization tools allow user and group-level access control, with the flexibility to assign different roles to users across multiple hospitals or hospital groups.

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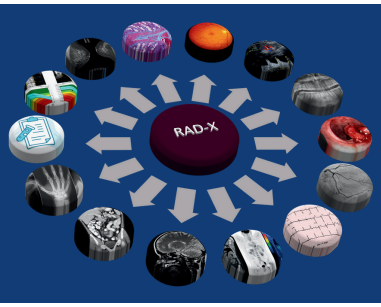
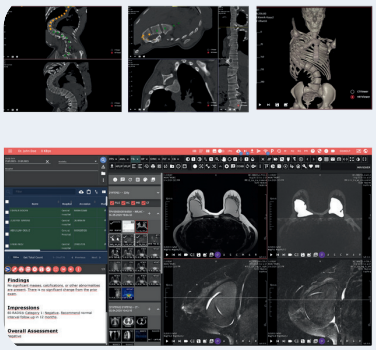
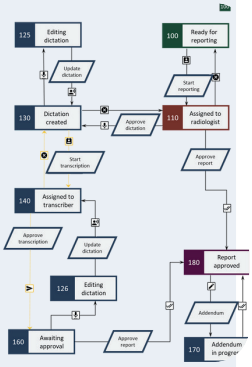
RAD-X

Teleradiology Solution





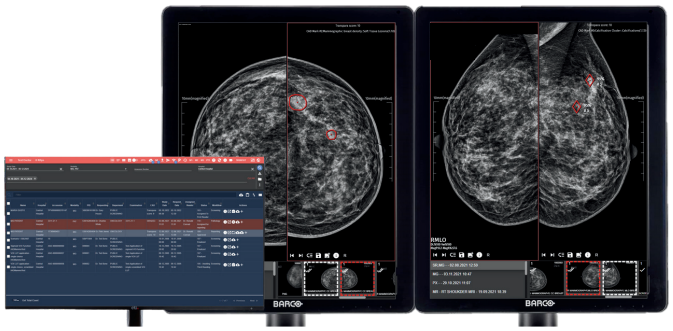


Remote Reporting

- Manual and rule based automatic assignments
- Extensive worklists
- Advanced image processing tools including MPR, CPR and VRT
- Customizable hanging protocols
- User and group based report templates
- One click access to prior images and reports

Mammography Reporting

- Customizable workflows for screening, diagnostic and opportunistic exams
- Fully integrated mammography AI
- IHE compliant diagnostic viewer
- Advanced hanging protocols
- Multi-modality support
- Structured reporting
- Double reading

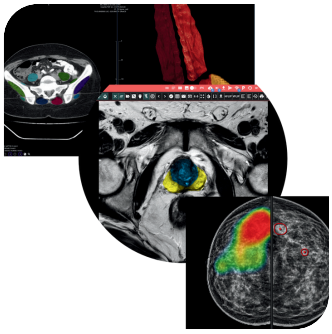


Quality Control and Dose Monitoring

- Modality specific image and report quality control surveys.
- Quality reports based on modality, operator, radiologist, equipment and institution.
- Integrated quality control workflow with automated task assignments.
- Automated collection of dose reports.
- Modality specific patient and effective dose calculations.
- Comparative reports based on institution, exam protocol, equipment and operator.

Third Party AI Integration

- Automated sending of relevant exams to external AI systems.
- Retrieval of AI findings in CAD SR, DICOM segmentation, and secondary capture formats.
- Integrated tools to display CAD annotations, findings and, segmentation results.
- Automated workflow integration to prioritize tasks based on AI findings.



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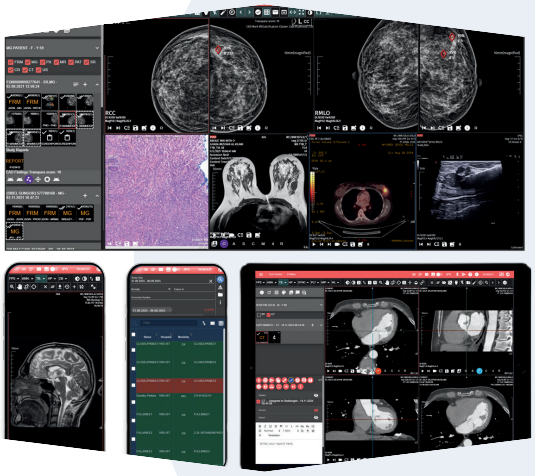
RAD-X PACS

A Modular PACS Solution for Radiology Departments



RAD-X is a modular, PACS-based system designed to meet the full spectrum of radiology department needs—from image archiving to comprehensive workflow management.

Built with cutting-edge web technologies, the RAD-X web interface delivers desktop-level performance within a web-based application. All DICOM images are transmitted to the client with zero data loss, ensuring high-quality imaging.

RAD-X combines the advanced functionality of traditional workstations with the flexibility of web access. With RAD-X, everything from scheduling to reporting can be managed seamlessly through a single, integrated web application.

What Can You Do with RAD-X?

Comprehensive Archiving and Reporting Across All Modalities

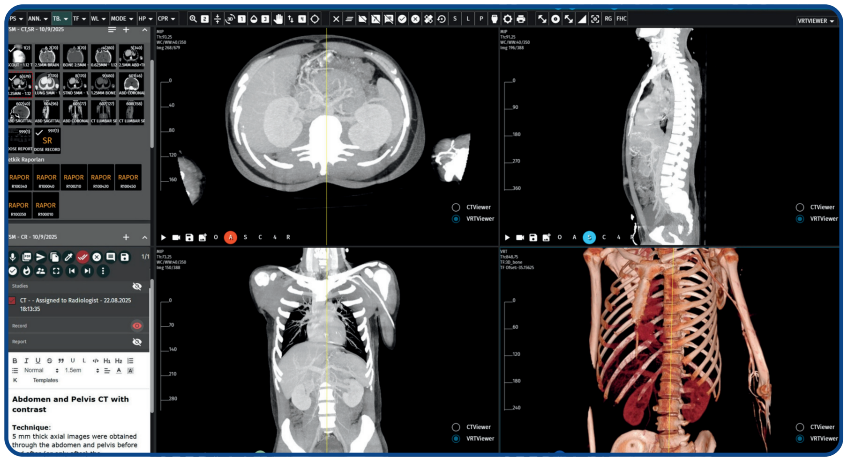
RAD-X offers advanced archiving and reporting capabilities for a wide range of medical imaging modalities, including radiology, cardiology, pathology, and oncology.

Flexible Workflow & Customization

- Fully Customizable Workflow Engine
- Personalized User Experience

AI Integration & Advanced Analysis

- Seamless AI Integration
- Structured DICOM Reporting
- AI Model Development
- One-Click AI Application



With its powerful capabilities, RAD-X streamlines workflows, enhances reporting efficiency, and drives AI-powered innovations in medical imaging.

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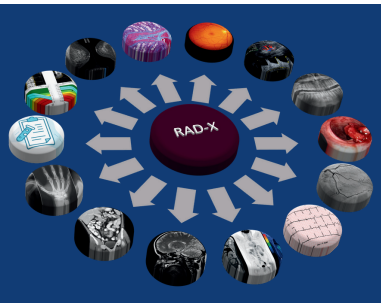
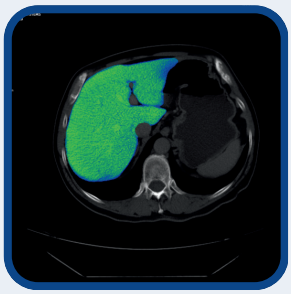
RAD-X PACS

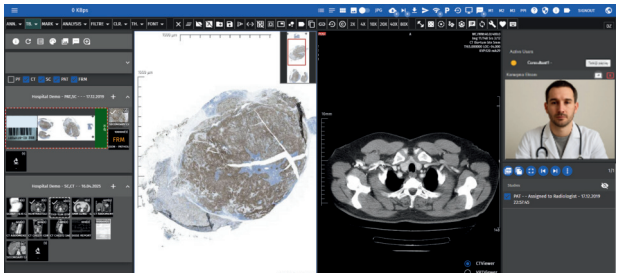


Key Features

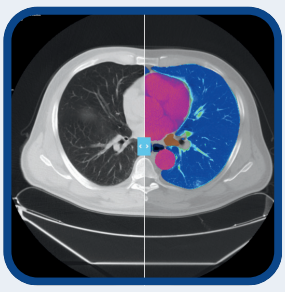
- **Perfect Combination of Simplicity and Functionality** - RAD-X delivers high performance experience through a zero-footprint web interface.
- **Seamless Integration with Other Systems** - Using DICOM, HL7, and IHE standards, RAD-X can easily integrate with HIS, RIS, LIS.
- **Built-in Advanced Image Processing Tools** - Advanced 3D Imaging, AI-Powered Lung Analysis, AI-Powered Liver Segmentation Tool, AI-Powered Cardiac Segmentation Tool, Mammography Module, and seamless integration capability with all third-party AI systems.
- **Fully Customizable Workflow** - RAD-X offers a wide range of workflows from reporting to quality control with customization tools.
- **Wide Range of Reporting Features** - RAD-X offers dedicated modules for HTML reporting, double reading, voice reporting, speech recognition verification, and custom structured reporting.
- **Access to All Patient Data from a Single Interface** - You can access all clinical information, images, documents, and lab results from multiple hospitals through a single interface.
- **Digital Pathology Module** - The Pathology Module allows pathologists to analyze digital slides and generate comprehensive, structured pathology reports while also providing access to radiology images and reports within the same interface.



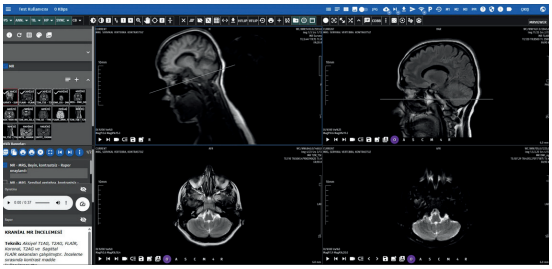
AI-Powered Liver Segmentation Tool



Digital Pathology Module



AI-Powered Cardiac Segmentation Tool



RAD-X PACS

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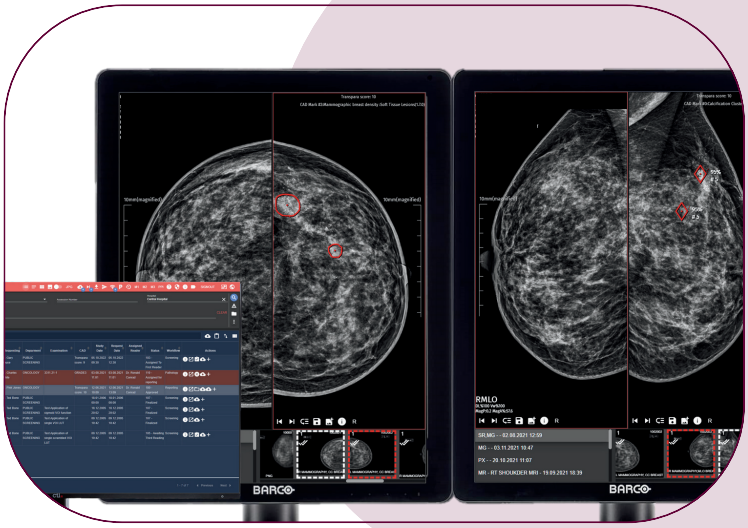
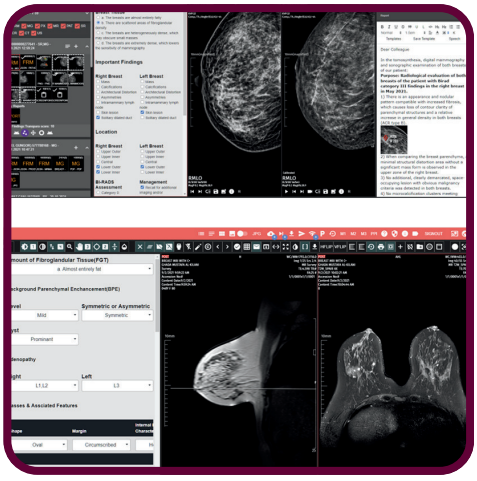
Breast Information System



Key Features

The platform offers customizable workflows for screening, diagnostic, and opportunistic exams, enhanced by fully integrated mammography AI. With an IHE-compliant diagnostic viewer, advanced hanging protocols, and multi-modality support, it ensures flexibility and efficiency in clinical practice.

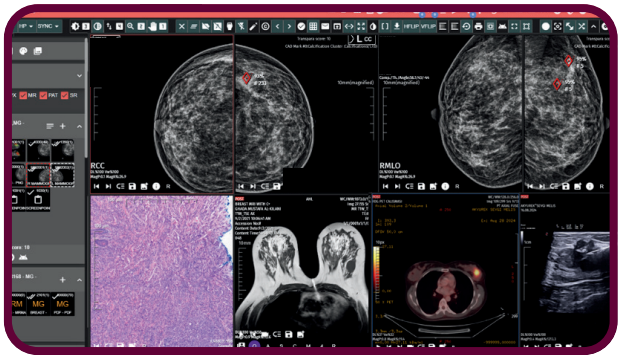
In addition, structured reporting, teaching folders, and a zero-footprint architecture contribute to both clinical workflows and educational processes.



Integrated Reporting

- BI-RADS structured reporting for screening
- Modality specific structured reports for customized data collection
- Rich text reporting for diagnostic workflows

Multi Modality Support



- Mammogram
- Tomosynthesis
- Ultrasound
- MRI
- PET/CT
- Digital pathology
- Encapsulated documents

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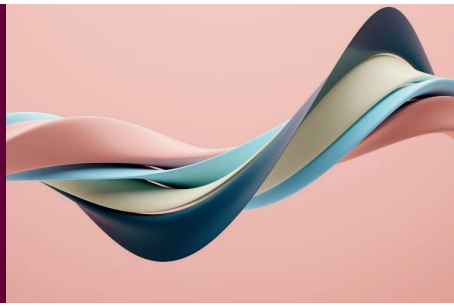
RAD-X

Breast Information System



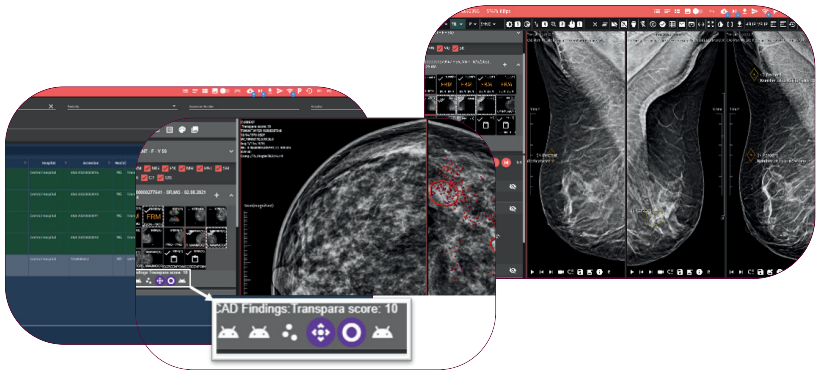
Fully Integrated with transpara® By ScreenPoint Medical

The system supports score-based prioritization to streamline case management and improve efficiency. With overlay toggling and intuitive color coding, radiologists can easily adapt the display to their preferences and quickly identify key findings.

One-click tomosynthesis navigation from synthetic images further enhances workflow, while AI-based triage assists in accelerating decision-making and optimizing clinical outcomes.

Harness The Power of AI With

transpara® By ScreenPoint Medical

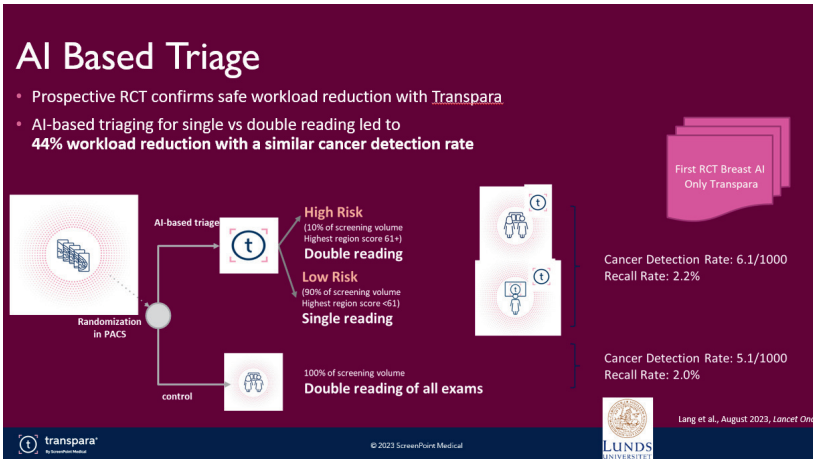


Increased Detection Rate

- 12 000 DBT and DM cases were read with Transpara AI support and compared to previous rates when not reading with AI support.
- Reading with Transpara AI support increased cancer detection rate from 5.5/1000 to 8.7/1000, while recall rate stayed unchanged

Decreased Reporting Time

- Confidence that low Transpara Score equals
  very likely normal
- Reduce reading time for low-risk exams



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RAD-X

Digital Pathology Workflow & AI Solutions

Comprehensive Digital Pathology and Laboratory Management

RAD-X Pathology Information Management System delivers comprehensive digital solutions for modern laboratories streamlining workflows, accelerating processes, and enhancing efficiency. The platform features fully customizable screening and diagnostic workflows, AI-driven decision support tools, and real-time monitoring to ensure precision at every stage.

Seamless barcode tracking, automated identification and intelligent monitoring eliminate manual errors and simplify daily operations. With flexible integration and an intuitive interface, RAD-X adapts effortlessly to existing laboratory infrastructures. Dynamic, live reporting provides actionable insights, while built-in quality management ensures consistent accuracy and performance.

Designed as a complete solution for digital pathology management, RAD-X combines secure data archiving with dedicated workflow modules to empower laboratories with reliability, transparency, and control.

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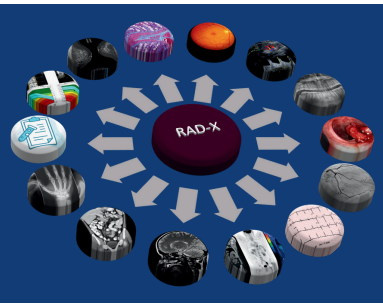
RAD-X

Digital Pathology Workflow & AI Solutions



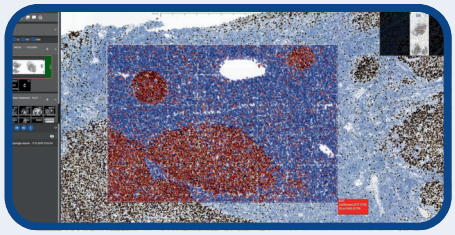
Advanced Digital Pathology Imaging, Archiving, and AI Solutions

Key Features

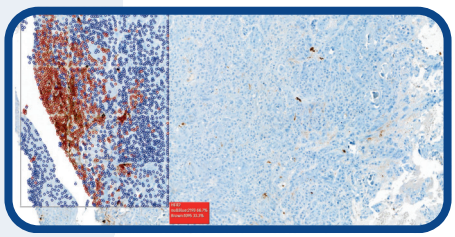
- **Multipurpose Viewer:** This purpose-built viewer securely processes, stores, and manages full-section images from multiple scanners and file types (SVS, NDPI, MRXS, TIFF, DICOM, ISYNTAX), supporting multi-modality imaging and advanced hanging protocols.
- **Whole Slide Imaging (WSI):** Entire glass slides are scanned at high resolution, allowing pathologists to zoom in and out for detailed analysis.
- **Multi-level Magnification:** Simulates different objective magnifications used in microscopy.
- **AI Integration:** Supports detection, segmentation, counting, and classification of cancerous and non-cancerous cells with advanced algorithms.
- **Color Calibration and Standardization:** Ensures consistency of images from different scanners and staining methods.
- **Annotation Tools:** Pathologists can highlight specific regions, add notes, and share them for education or collaboration.
- **Remote Access (Telepathology):** Provides secure online access to experts in different locations for collaborative and remote reporting.
- **Archiving and Management:** Enables secure long-term storage of slides with fast and easy retrieval.

AI Solutions

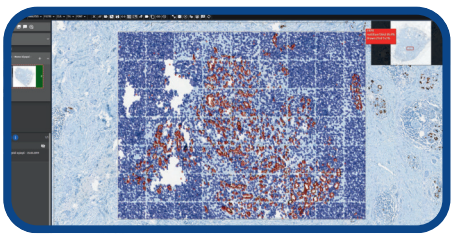
- Advanced image analysis tools for detection, counting, and localization of cancerous and non-cancerous cells on ERPR, Ki67, HER2, and PD-L1 stained digital slides.
- AI models to aid detection of lymph node metastasis and prostate cancer.
- Semi-automatic cell detection based on user defined annotations.



KI67 Analysis



HER2 Analysis



ER/ PR Analysis

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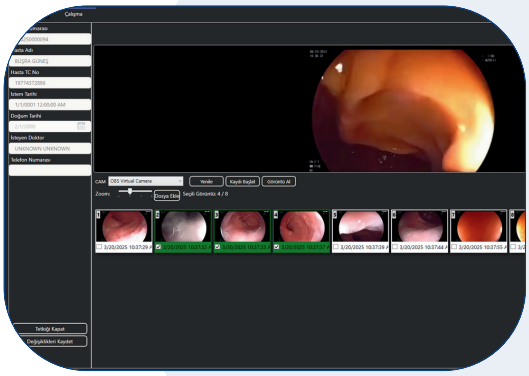
VISION-X

Endoscopy Management Application

Versatile Endoscopy Management Application



VISION-X is a versatile endoscopy management application designed to meet the needs of physicians.

It offers a comprehensive set of features, including patient management, image and video recording, reporting, and PACS integration. By doing so, it enhances both the patient's experience and clinical workflows.

Empower Your Endoscopy Management with VISION-X

Advanced Patient Management

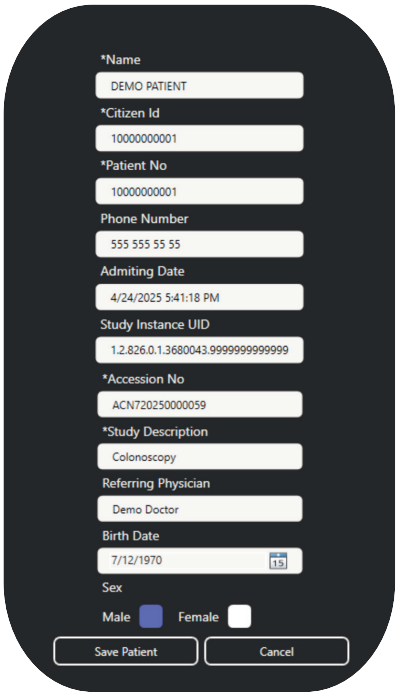
VISION-X simplifies patient information management, whether entered manually or retrieved via the Work List (WL) system. Patients are categorized by status—registered, in progress, or completed—ensuring clear and efficient tracking. This feature streamlines patient follow-up and accelerates examination workflows.

Efficient Media Content Management

VISION-X excels in handling technical tasks like image and video recording, supporting both manual and automated processes. VISION-X systematically organizes captured media, which users can easly add to reports when needed. Features such as frame capture from videos, preview options, and external file uploads enable seamless media content management.

Integrated and Secure Data Sharing

Thanks to DICOM and HL7 integration, reports and images can be securely shared with HIS, RIS and PACS.



VISION-X Patient Registration

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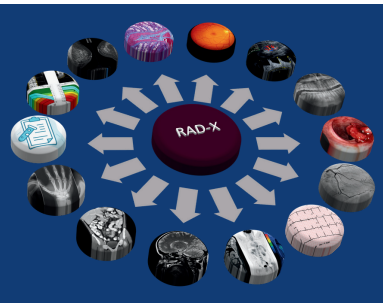
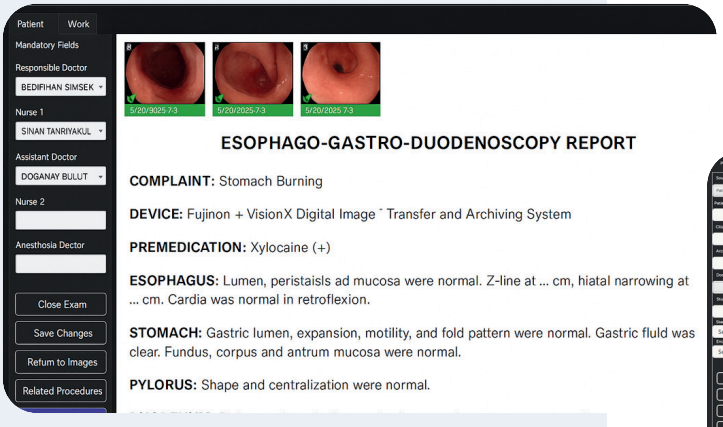
Endoscopy Management Application

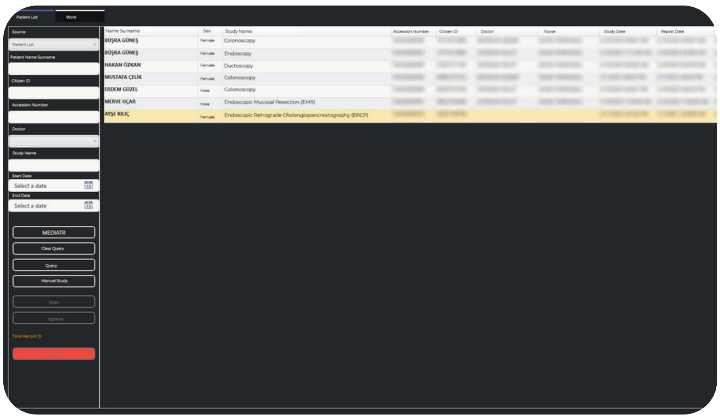


Key Features

- **Worklist and Patient Management** - DICOM modality worklist features enable patient and exam information retrieval from RIS/PACS.
- **Image and Video Management** - Images and videos can be captured from multiple sources and can be edited after the procedure.
- **External File Integration** - Users can add additional documents, images and videos to procedure artifacts.
- **Reporting Features** - Rich text reports can be generated with customizable templates and easy tools to add key images from the procedures.
- **Pedal Integration** - Ability to capture images and record videos using a pedal during the procedure.
- **PACS and HL7 Integration** - Sending reports and images to the PACS/HIS in DICOM and HL7 formats.



VISION-X Reporting Tool



VISION-X Patient List

GET IN TOUCH

Feel free to get in touch with us for any inquiries

OUR CONTACT:

+90 312 485 6505

simplexbt.com

info@simplexbt.com

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