RADMAX

Digital Imaging Software

Unlocking New Possibilities in Digital Radiography

DRGEM
Your Best Healthcare

RADMAX is built on three key principles of today's imaging.

Efficient, Intelligent, Reliable

Efficiency comes from intuitive tools and seamless system integration that streamline daily workflows. Intelligence is reflected in AI-based assistance and advanced image processing, giving radiologists greater diagnostic confidence. Reliability is demonstrated through consistent, high-quality results in every clinical environment, delivering long-term value for hospitals and medical imaging professionals.

Key features At a Glance

01 Superior Image Quality

Image quality is the foundation of every diagnostic system. RADMAX delivers sharper images with high contrast and fine detail. Grid line suppression and software grid minimize artifacts and noise for consistently clear results.

02 Intuitive User Experience

A touch-enabled console, positioning guides, and operator-focused tools simplify every exam step. Radiographers benefit from faster setup, minimized retakes, and a more efficient workflow.

03 Intelligent Diagnostic Support

AI-based diagnostic assistance highlights subtle pathologies and improves soft-tissue visibility with bone suppression. Auto stitching and 9 image presets simplify workflow and enhance diagnostic accuracy.

04 Seamless System Integration

Fully compatible with PACS, RIS, HIS, EMR, PMS, and DICOM standards, RADMAX integrates smoothly into hospital networks. Cybersecurity and compliance features protect patient data and ensure secure, reliable operation.

Intuitive, Efficient, Operator-friendly

RADMAX is designed to simplify the everyday work of radiographers. With an intuitive console, guided positioning, and streamlined workflows, it reduces complexity, shortens exam times, and minimizes retakes while enabling faster patient throughput. This allows operators to focus more on patient care while maintaining efficiency and consistency.

STEP 1 — Positioning – Precise & Easy Setup

Accurate positioning is the foundation of reliable imaging, and RADMAX supports radiographers with advanced tools that make this first step precise and easy. With clear guidance, real-time monitoring, and intelligent alignment support, operators can position patients with greater ease and confidence. These capabilities reduce errors, minimize retakes, and limit unnecessary radiation exposure, ensuring a smoother workflow and more consistent results.

Positioning Guide

Provides operators with practical guidance for patient positioning. This support makes exam preparation easier and helps minimize retakes and unnecessary radiation exposure.
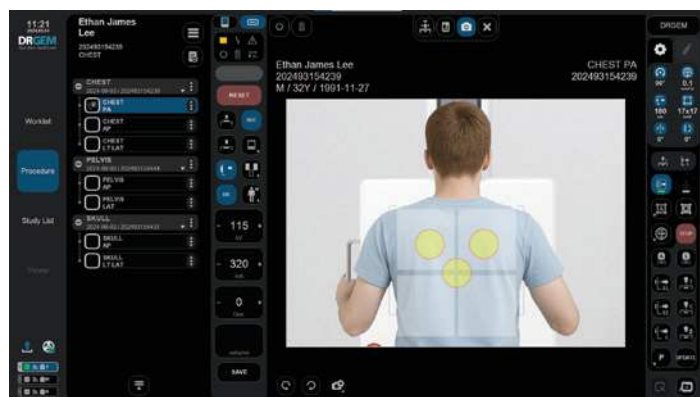

Live Streaming Camera

Through an optional camera, operators can monitor the patient in real time. Immediate feedback supports accurate positioning and lowers the chance of retakes.

Virtual AEC Field Alignment

Displays the AEC field virtually on the patient's camera image when it is covered by the patient's body. This helps operators align the AEC field more accurately, improving image quality and reducing the likelihood of retakes.
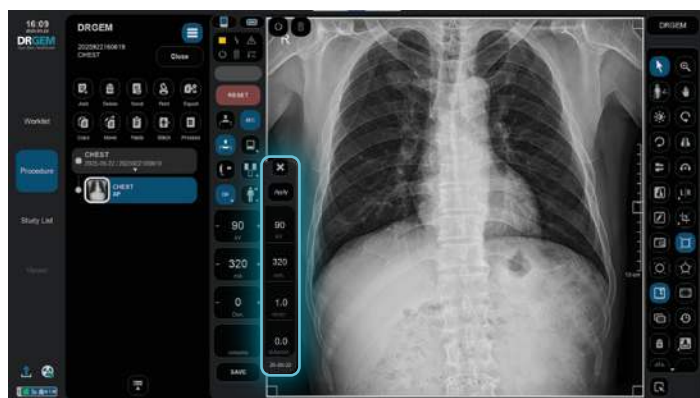
STEP 2 Exposure – Safe & Reliable Imaging

Proper exposure control is essential for both image quality and patient safety. RADMAX equips radiographers with reliable tools that simplify setup, detect patient movement to prevent retakes, and ensure consistent image quality through exposure management. Automation features further save time, improve exam efficiency, and enhance safety across the workflow.

Same Patient APR Info Display

Automatically recalls the most recent exposure parameters (kV, mA, exposure time) linked to the patient ID. This reduces setup time, ensures consistent conditions for follow-up exams, and minimizes operator error.

Patient Movement Detection

Detects patient movement directly before X-ray exposure and immediately alerts the operator, helping prevent unnecessary retakes and maintaining clear, reliable image quality.
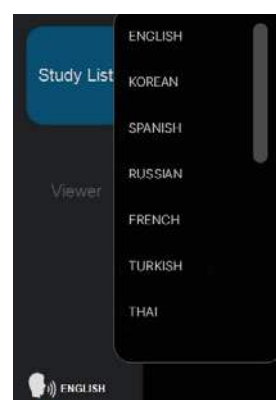

Exposure Index(EI) & Deviation Index(DI)

Indicates whether the exposure dose of the acquired image is appropriate, too high, or too low. These values allow operators to quickly verify exposure adequacy and make informed adjustments for safe and consistent imaging.

Multilingual Preset Voice Guidance

Provides user-guided voice instructions before and after X-ray exposure, such as "Take a deep breath and hold" or "Breathe out" for chest exams. Operators can select the instructions according to each imaging step, and a mute option is also available.

Software DAP

Calculates and displays the Dose Area Product (DAP) through software, eliminating the need for a separate meter. This allows efficient dose monitoring and contributes to improved patient safety.
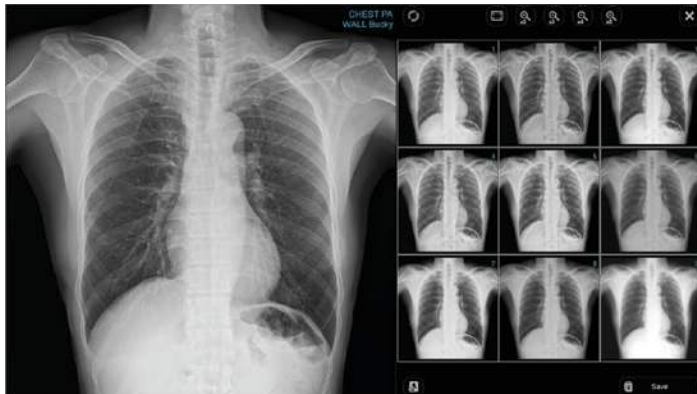
Processing – Optimized & Intelligent Images

Advanced image processing ensures that every exam delivers clear and reliable diagnostic results. RADMAX provides intelligent tools that optimize image quality, highlight critical details, and support informed diagnoses. From presets and stitching to AI assistance and noise reduction, these features help medical imaging professionals work more efficiently while achieving consistent, high-quality outcomes.

9 Image Presets

Provides nine preset image modes that allow quick adjustments for operators and optimized visualization across different clinical needs.

AI Diagnostic Assistance

Supports the immediate detection of suspected 9 abnormalities, helping medical imaging professionals achieve faster and more precise diagnoses.
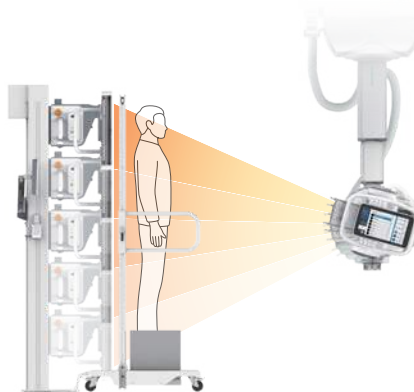

Auto Stitching

Combines up to five images on the Wall Stand and three on the Patient Table into a seamless view, providing a comprehensive perspective while reducing manual processing for operators.
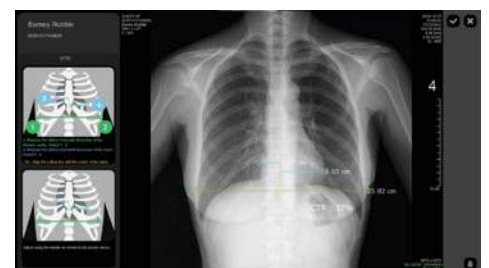

| Wall Bucky Stand

| Patient Table

Measurement Guidance Panel

Provides on-screen measurement guides for CTR (Cardiothoracic Ratio) and Q-angle, supporting these calculations easily and consistently. It improves diagnostic precision and streamlines workflow.
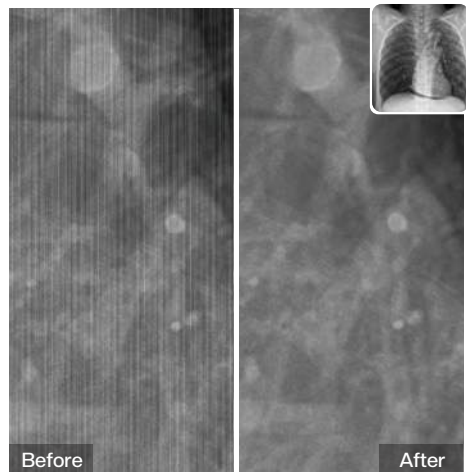

| Cardiothoracic Ratio (CTR)

| Q-angle

Grid Line Suppression

Removes or reduces grid lines in X-ray images, enhancing clarity and sharpness to provide clearer diagnostic insight.

Bone Suppression

Improves visualization of soft tissues by minimizing the prominence of bones, supporting the detection of subtle pathologies.

Scatter Reduction

Generates a software grid that reduces image noise and increases contrast, improving diagnostic image quality while eliminating the need for physical grids.

Before | After

Before | After

Before | After

Comprehensive, Integrated, Future-ready

RADMAX seamlessly integrates with PACS, RIS, HIS, EMR, and PMS via DICOM and HL7. It goes beyond image acquisition and processing to support hospital-wide efficiency, compliance, and security. With management-focused features such as dose monitoring, RDSR, reject analysis, and secure audit trails, it ensures that every exam is safe, traceable, and future-proof.
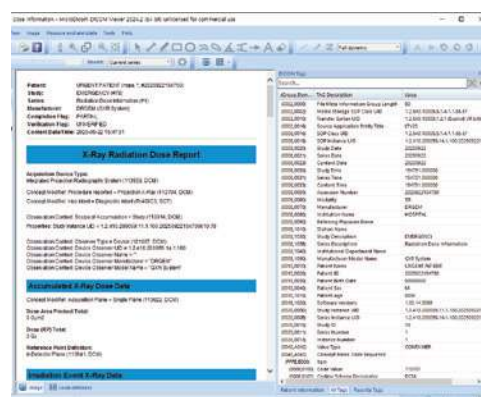
Dose Monitoring

Tracks and manages each patient's cumulative radiation dose over time to ensure that exposure remains within safe limits. This supports compliance with dose thresholds and enhances patient protection.

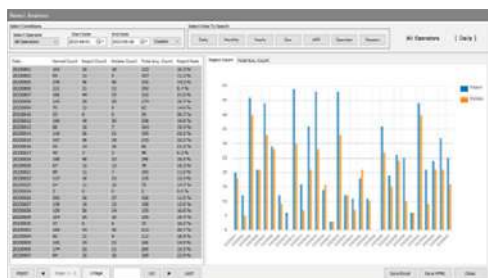## Radiation Dose Structured Reports (RDSR)

Generates standardized radiation dose information and transmits it to the RDSR server in compliance with DICOM standards. This ensures regulatory conformity and provides reliable records for dose tracking and patient safety.
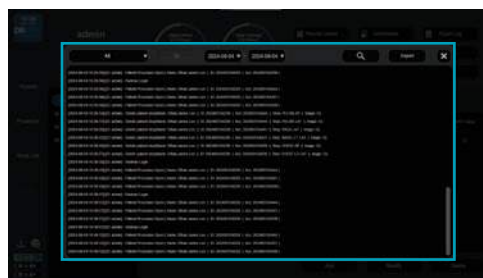
Reject Analysis

Identifies and analyzes the reasons for rejected images, helping reduce retakes, lower patient dose, and support continuous improvements in imaging quality.
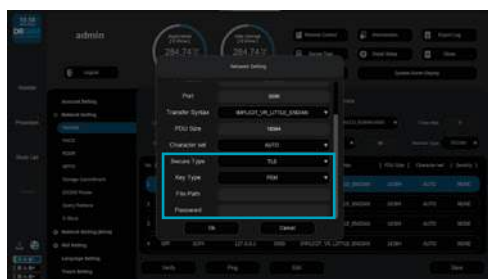

Audit Trail

Provides a secure, detailed record of system activity, showing who performed which tasks and when. This ensures accountability, transparency, and strong data security.

Cybersecurity & DICOM TLS

Advanced encryption, secure account policies, and ScreenLocker functionality protect patient data and prevent unauthorized access, ensuring safe and compliant system use.

RADMAX on Tablet

Operate key RADMAX functions directly from the tablet, including worklist access, image review, and collimator control for a smoother mobile workflow.

RADMAX Unlocks New Possibilities

A complete imaging platform that goes beyond everyday diagnostics

RADMAX creates new opportunities for radiologists, radiographers, and hospital management, delivering precision, simplicity, and efficiency across every level of care.

01 For Radiologists

AI diagnostic intelligence, advanced processing tools, and consistently optimized images provide the clarity and reliability needed for accurate and timely diagnoses. By highlighting subtle pathologies and reducing noise and artifacts, RADMAX supports reliable clinical decisions and enhances diagnostic value across diverse cases.

02 For Radiographers

An intuitive user interface combined with guided, streamlined workflows simplifies every stage of the exam. From positioning to exposure, RADMAX minimizes errors, reduces retakes, and creates a safer environment for patients. These features allow radiographers to focus on efficiency and patient care rather than technical complexity.

03 For Hospital Management

RADMAX extends beyond imaging to deliver hospital-wide benefits. Compliance-ready dose reports, continuous quality monitoring, and reject analysis ensure regulatory conformity and ongoing performance improvement. Robust cybersecurity and scalable system architecture safeguard sensitive data while preparing institutions for future growth, making RADMAX a secure and sustainable long-term investment.

X-ray Simulator

Powered by RADMAX

Extending RADMAX into education

The X-ray Simulator powered by RADMAX provides non-radiation training that mirrors real clinical workflows. It offers a safe and practical solution for students and educators, delivering the full functions of RADMAX without exposure to X-ray radiation. Widely applicable in medical schools, college of health sciences, and radiologic technology program, it reduces the cost of training infrastructure and, when combined with DRGEM's X-ray systems, creates a complete and comprehensive learning environment.

Key Features

- **Radiation-free training** | Safe learning environment without exposure risks.
- **Workflow-based practice** | Simulates real hospital conditions, from positioning to image processing.
- **Standardized image database** | Delivers consistent education quality with reference images.
- **Full RADMAX functions** | Includes positioning guides, exposure settings, editing, annotation, and processing tools.
- **System integration training** | Hands-on experience with PACS, MWL, and DICOM Print.

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