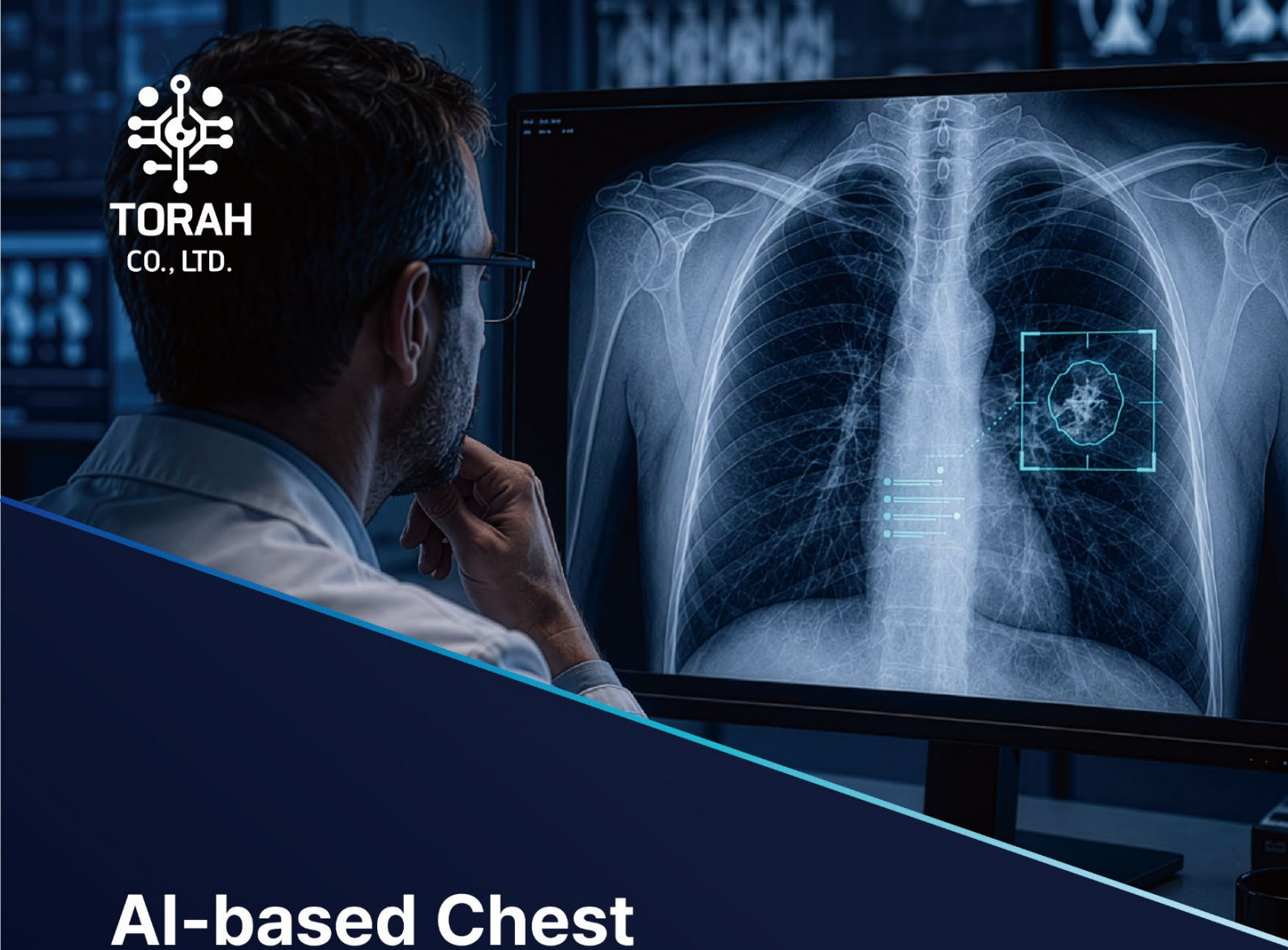


TORAH
CO., LTD.

AI-based Chest X-ray Analysis System

Pulmonary Lesion & Lung Cancer Diagnostic Support

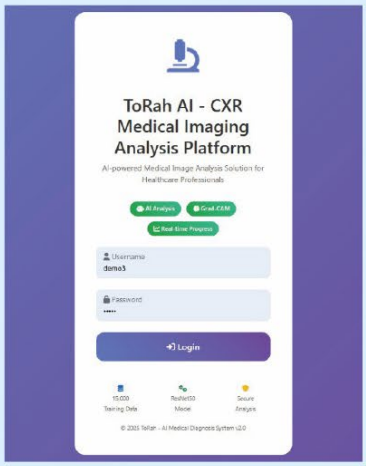
One X-ray. Saving Lives.

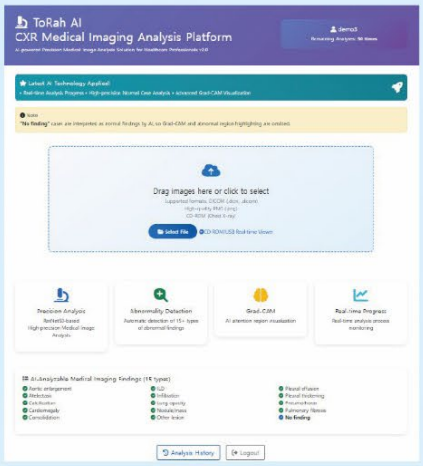
CES™ 2026 Honoree
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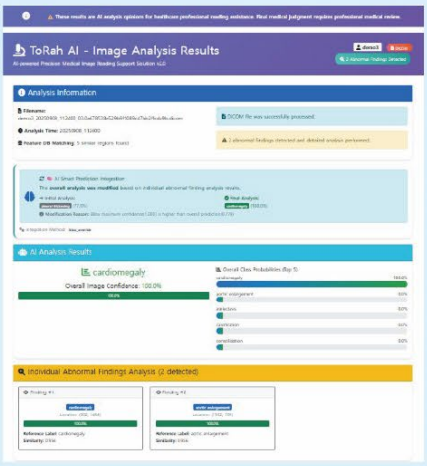
A New Paradigm in 16-bit Chest X-Ray Analysis

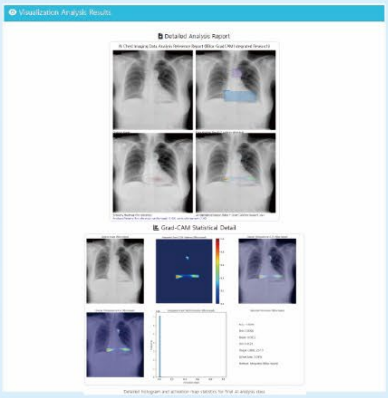
AI Healthcare Solutions

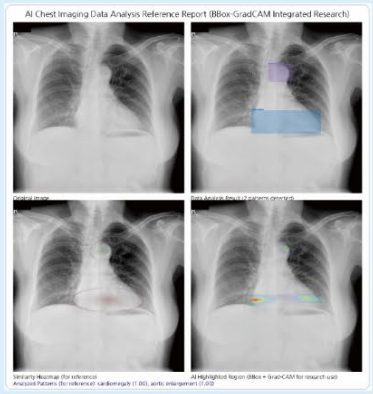
Lesion Diagnosis

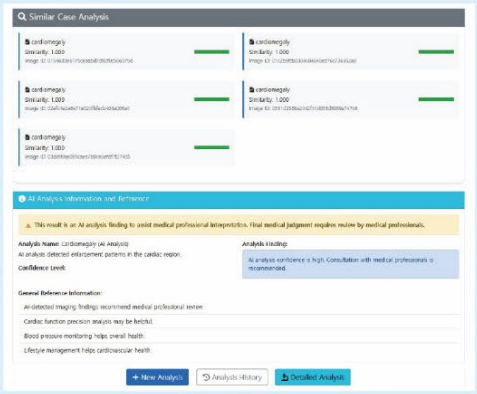












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Innovation Awards 2026 CES in Artificial Intelligence

Unique 16-bit high-resolution chest X-ray analysis solution (A next-generation medical AI solution that revolutionizes early detection with precision diagnostic support) - Solved with a reading solution based on high-definition Torah data utilization and high-precision deep learning (AI) algorithms - Here are the 14 thoracic pathologies automatically identified by AI models trained on the well-known Chest X-ray dataset. These are frequently referenced in academic research on AI-assisted chest X-ray interpretation Cardiac Hypertrophy (AI Analysis Findings) AI analysis results observed an enlarged pattern in the cardiac region.



General Notes

1. Medical review is recommended for imaging findings detected by AI.
2. May assist in the precise analysis of cardiac function.
3. Blood pressure monitoring is beneficial for overall health.
4. Lifestyle management is beneficial for cardiovascular health.

Deep Learning Chest X-ray Analysis for Lung Disease – TORAH Vision AI Enhances Diagnostic Accuracy with Expert-Annotated Training Data

Business Achievements

- Three contracts for deployment of TORAH Vision AI at medical institutions are pending signature
- Conducted over 30 business meetings with overseas buyers
  (including partners from the United States, China, Vietnam, and the Philippines)



A Johns Hopkins University PhD team showed strong interest and gave positive feedback, focusing on the results of biomarker and bacteremia registry fusion. They expressed expectations for collaboration, with plans to share the work officially within the university and to engage with ToRah as an advisory and collaborative partner.

TORAH VISION AI

“Critically ill patients such as those on ECMO”

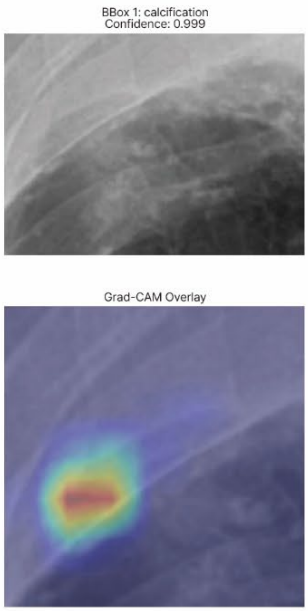
“Rapid image analysis can decide life or death”

“Pulmonary diseases that can easily be missed in the early stage”

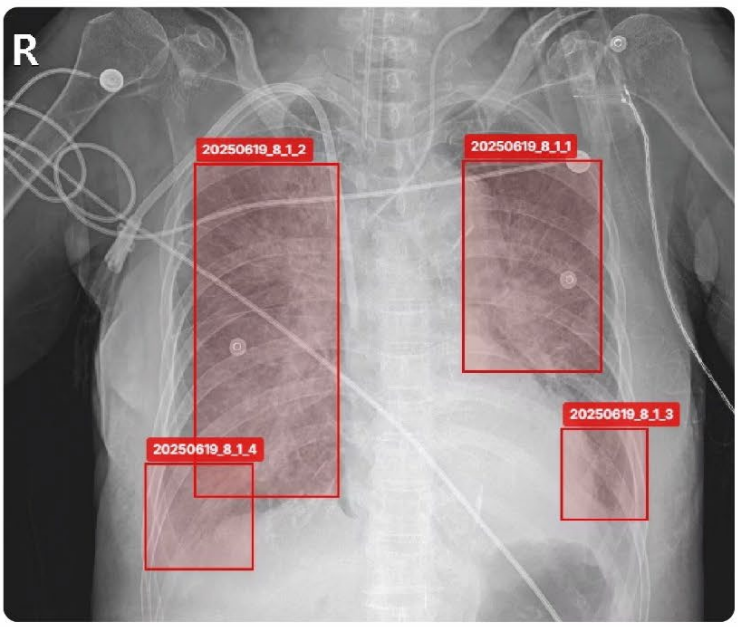
- Pleural Effusion, Pulmonary Edema, and Pneumonia are major lung diseases that cause severe dyspnea.
- However, in the early stage it is difficult to clearly distinguish these three diseases using only chest X-ray images.
- In actual clinical practice, specific radiologic findings often become visible only after the disease has progressed to a moderate or severe stage.
- Consequently, failure of early diagnosis can lead to delayed treatment and a high risk of poor patient outcome.

Although chest X-ray is the basic examination tool for pulmonary disease, early-stage Pleural Effusion, Pulmonary Edema, and Pneumonia often show only subtle changes that are hard to differentiate by eye. This diagnostic uncertainty can delay appropriate therapy and negatively affect the patient’s prognosis and survival.

Grad-CAM, EFN + FL



1-1, 1-2: Pulmonary Edema / 1-3, 1-4: Pleural Effusion



The introduction of TORAH AI enables clinicians to make much more accurate diagnoses from the earliest stage. This leads to better treatment planning and improved patient prognosis. In time-critical environments such as emergency rooms or intensive care units, TORAH AI becomes a powerful decision-support tool for physicians.

Business Achievements

ToRah Co., Ltd. has generated the following tangible outcomes through advanced research on its AI medical-image analysis solution, "TORAH Vision AI."

Participation in Domestic and International Exhibitions & Conferences

June 11–13, 2025	Exhibition and live demonstration at STK Smart Tech Korea (AI Pavilion)
June 20–22, 2025	Exhibition and live demonstration at Daegu MediExpo (medical exhibition)
August 22–23, 2025	Exhibition and live demonstration at the Korea ECMO Symposium & The 8th BEST 2025 hosted by the Korean Society for Thoracic and Cardiovascular Surgery (Dong-A University Bumin Campus, Busan)
September 24–29, 2025	Exhibition and live demonstration at the Hangzhou Global Digital Industry Expo (Hangzhou, China)
November 5, 2025	Invited panel discussion talk on "AI-based prognostic prediction in bacteremia patients with pulmonary disease using multimodal fusion" at the seminar on bio-semiconductor and stem-cell–based cardiac and neural disease applications
November 7, 2025	Presentation at an academic conference at Suwon Convention Center on "AI model for mortality risk prediction in bacteremia patients with pulmonary infection based on fusion of chest X-ray and clinical data"
December 3–5, 2025	Software exhibition and live demonstration at COEX (Seoul)
January 2026	• Participation in CES 2026, Las Vegas, USA – exhibition and live demonstration of TORAH Vision AI • 2026 CES **Innovation Awards** Honoree in Artificial Intelligence
June 29–30, 2026	Successful overseas clinical validation of TORAH Vision AI at two hospitals in the Philippines using real patient chest X-ray data.
June 30, 2026	Signed Southeast Asia supply agreement with KARL Group.

Academic and Patent Achievements

July 21, 2025	Korean patent application filed : "AI-based Medical Image Analysis System"
August 12, 2025	PCT international patent application filed : "AI-based Medical Image Analysis System"
November 7, 2025	Conference presentation of the paper "AI-based Prognostic Prediction in Bacteremia Patients with Concomitant Pulmonary Infection" (received Best Presentation Award)
January 2026	**CES 2026 Innovation Award confirmed**

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