Precise, Powerful & Proven Technology to Improve Breast Cancer Detection.

iCAD, the market leader in multi-vendor, artificial intelligence (AI) detection solutions for breast cancer with more than a thousand installations worldwide, introduces: ProFound AI® 3rd generation.

ProFound AI is a clinically proven solution designed to amplify radiologists’ diagnostic accuracy and performance reading 2D mammography and digital breast tomosynthesis (DBT).

ProFound AI improves clinical confidence

This high-performing, concurrent-read, cancer-detection and workflow solution rapidly and accurately analyzes each image, or slice, detecting both malignant soft tissue densities and calcifications with unrivaled accuracy, including in dense breasts. Similarly, ProFound AI allows radiologists to quickly confirm and validate the absence of cancer.

ProFound AI for DBT is proven to offer superior clinical performance

ProFound AI for 2D Mammography is clinically proven to:

- Offer superior sensitivity up to 91.5 %
- Accurately detect up to 48% interval cancers, according to a retrospective study.

NEW! ProFound AI 3rd generation performance

The latest version of this software outperforms previous versions in sensitivity and specificity, with a significant reduction of false positive findings per image. Compatible with multiple mammography systems, ProFound AI offers critical insights for clinicians that can enhance clinical confidence and improve outcomes for women.

Benefits to the Facility

- Increases radiologists’ average cancer detection rate
- Improves workflow efficiency
- Increases diagnostic confidence
- Optimal integration in multivendor environments

Benefits to the Patient

- Assists in early cancer detection, which can lead to earlier treatment and improved outcomes
- Fewer false positives/unnecessary recalls
- Improves detection accuracy
- Provides peace of mind

Learn more about the ProFound impact our technology can offer to your practice.

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How does ProFound AI work?
The ProFound AI algorithm rapidly and accurately analyzes each individual image, or slice, and identifies potentially malignant lesions. Trained with one of the largest available image datasets, ProFound AI provides radiologists with crucial information, such as lesion Certainty of Finding and Case Scores, which assists in clinical decision making and prioritizing caseloads.

Certainty of Finding and Case Scores
Certainty of Finding lesion and Case Scores are assigned to each lesion and each case respectively. These are relative scores computed by the ProFound AI algorithm and represent the algorithm’s confidence that a detection or case is malignant.

The scores are represented on a 0% to 100% scale. A higher score indicates a higher level of confidence in the malignancy of the detection or case. The Certainty of Finding and Case Scores serve as a guide to the interpreting radiologist to aid in determining if a suspicious finding or case needs further workup.

Examples of Certainty of Finding Scores for Soft Tissue Density and Calcification Detections

85% Certainty of Finding
48% Certainty of Finding
97% Certainty of Finding
43% Certainty of Finding

Platform
ProFound AI runs on the industry-leading PowerLook® server platform with NVIDIA® Graphical Processing Units (GPU), the latest in powerful GPU technology. PowerLook is a flexible and reliable DICOM platform that easily integrates with image modalities, mammography review workstations, PACS, and image storage systems.

About iCAD
iCAD is a global medical technology leader providing innovative cancer detection and therapy solutions, with:
• More than 20 years of experience in Artificial Intelligence (AI)
• 50+ global patents
• More than 30 reference center partners around the world
• 2 AI products incorporating state-of-the-art deep learning technology built with one of the largest available datasets (ProFound AI for DBT, and ProFound AI for 2D Mammography)
• More than 7,000 installations around the world
• iCAD is a NASDAQ-listed company based in Nashua, NH, USA

References:
3. Compared to previous versions of the software, the ProFound AI 3.0 algorithm offers up to a 10% improvement in specific city performance, up to 1% improvement in sensitivity with ProFound AI for Tomosynthesis and 4% improvement with ProFound AI for 2D mammography, and up to 40% faster processing on the new PowerLook platform.

PowerLook (EC certificate #649468) and PowerLook Tomo Detection software (EC Certificate #672447), medical imaging post-processing software, are medical devices manufactured by iCAD, Inc. These medical devices are reserved for health professionals. These software programs have been designed and manufactured according to the EN ISO 13485 quality management system. Read the instructions in the User’s Manual carefully before use. Manufacturer: iCAD, Inc. (USA). Medical devices Class Ila / Notified body: Bsi. ©iCAD, Inc. / September 2021