



## RUTH™ - Product Overview

RUTH™ is a game-changing device for the detection of breast cancer. Based on MIRA™ (Multi-Dimensional Infra-Red Analysis) technology, RUTH offers a comprehensive solution to unmet challenges in breast cancer detection.

MIRA is a revolutionary technology, based on a proprietary signal acquisition method and advanced processing algorithms, enabling 4D quantitative analysis of infra-red signals emitted from cancerous, benign or normal physiological processes.



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## The Technology

### Background

Human tissue radiates heat. This heat is expressed in radiation of infra-red wave length. IR cameras are optical devices specifically designed to sense and record these wave lengths. An imaging method utilizing these principles producing a 2D image, was approved two decades ago by the FDA and by European regulatory authorities.

### The Innovation

Real Imaging's technology enables acquisition of an infra-red signal of a higher spatial dimension over a length of time (4D) and processing of this signal with dedicated multi-disciplinary algorithms. The proprietary MIRA model enables a comprehensive analysis of the heat source characteristics such as malignancy, location and size.

## Product Benefits

- Sensitive and specific
  - Malignant tumors detected and unnecessary biopsies prevented
- Early detection
  - Cancerous processes detected even prior to formation of a sizable tumor
- Suitable for women of any adult age
- Safe - Radiation and complications free
- Painless - No manipulation or contact with the breast
- Friendly – Quick procedure with immediate result

**realimaging**  
*a mission for life*

## Product Features

- Image Acquisition system
  - Generation of a MIRA model of a patient's breast
  - Dual 'optic head' for simultaneous panoramic view of patient's breasts and axillary tails
  - Ergonomic design of patient environment and operator console
- Radiologist workstation
  - Exam results - Non subjective presentation of findings: either none or location of detected growth
  - Further investigation module - Processed material supporting exam result for further investigation and consideration.
  - Fully automatic breast boundary detection



## Procedure

The entire procedure takes only a few minutes and the results are available immediately for further examination by the physician.

### Conformity Certification

ISO 9001 2000, ISO 13485 2003

**About Real Imaging.** Founded in 2006, Real Imaging is developing a comprehensive imaging solution for breast cancer detection which is both accurate and patient-friendly. Real imaging's MIRA technology will decrease the amount of false diagnoses for women of all ages around the globe. The Real Imaging solution can be integrated into the current diagnosis process to improve early detection rate and reduce treatment costs. Real Imaging now has its 4th generation advanced prototype. A GCP-compliant pilot clinical multi center trial is in progress in leading medical centers in Israel.

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RUTH™ - Not available for sale in the US