

AI for Human Benefit, Everywhere

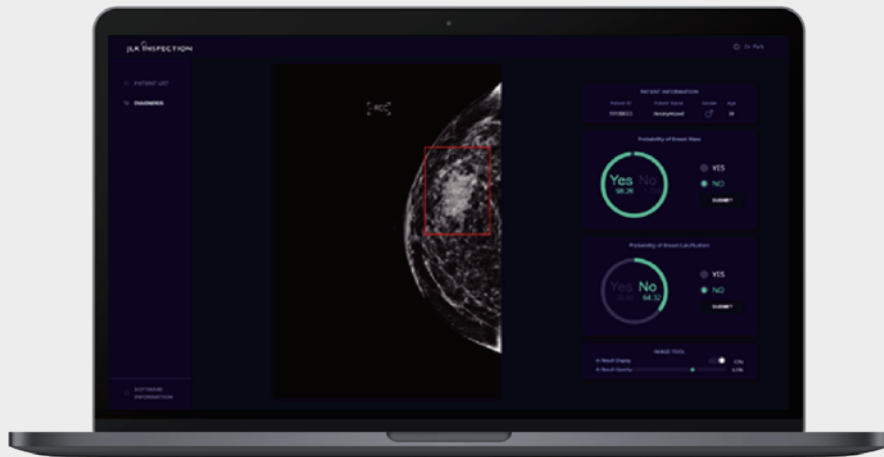
JBD Series

AI based Mammography Solution for Breast Mass & Microcalcification



MEDIHUB MAMMO





JBD-01K

AI based Breast Mass Detection Solution

| Summary

Breast cancer is the most common type of cancer in women in Korea. It is crucial to detect cancer in early stage to maintain a healthy life because it can metastasize to the body over time. A mammography exam plays a key role in early breast cancer detection. It shows changes in the breast 2 or 3 years before a patient or physician can actually feel pain. Therefore, screening mammograms are considered the international gold standard for early detection of breast cancer.

JBD-01K is an artificial intelligence breast cancer diagnosis solution that analyzes mammography images to detect breast masses. The solution is trained with a vast amount of verified mammograms so it can detect breast masses that are in various forms and shapes. Medical staff can use JBD-01K to facilitate early diagnoses of breast cancer and to promote fast and accurate results.

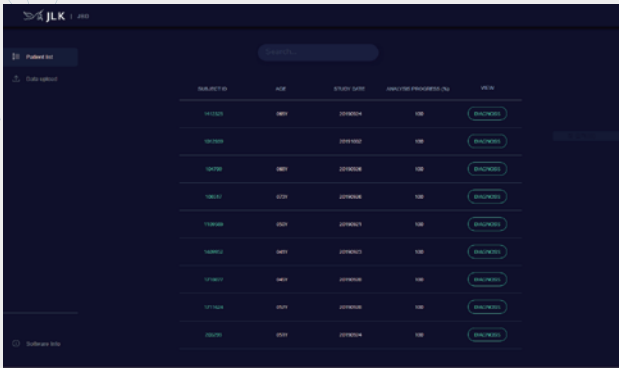
| Key Components & Performance

- Single Data Center AUC 93.00%
- Analysis Time : within 2s
- Convenient patient data management through PACS interworking
- Display analysis result within the web-based user interface

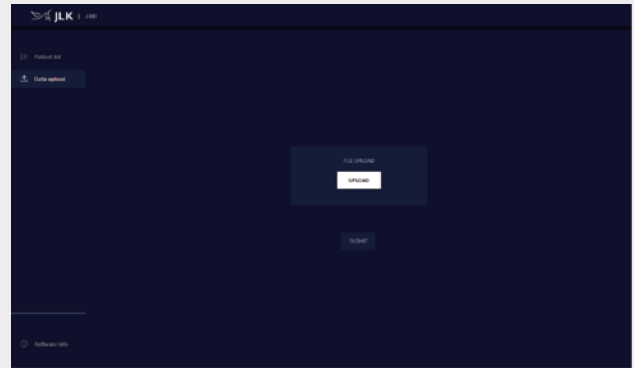
| Input / Output

- **Input Data** Patient's Mammography DICOM
- **Output Information** Breast Mass Area, Breast Mass Probability

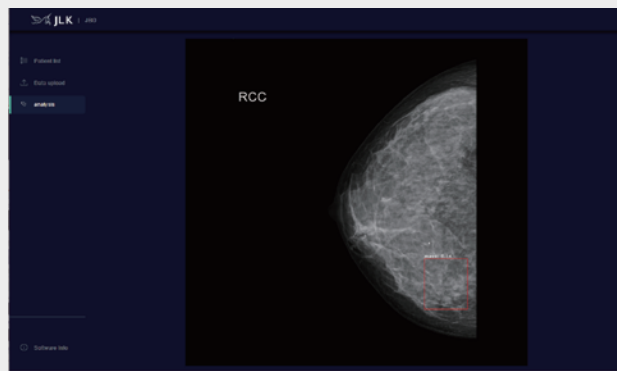
Solution UI



1 Analyzed breast mass patients list UI



2 Data upload UI



3 Breast mass analysis result UI

Unique Functionality

- Provides information management function of analyzed patients
- Applies a pectoral muscle area removal algorithm to prevent false positives
- Provide visualization on detected breast mass
- Provides analysis result report



JBD-02K

AI based Breast Micro-Calcification Detectino Solution

| Summary

Breast cancer is the most common type of cancer in women in Korea. It is crucial to detect cancer in early stage to maintain a healthy life because it can metastasize to the body over time. A mammography exam plays a key role in early breast cancer detection. It shows changes in the breast 2 or 3 years before a patient or physician can actually feel pain. Therefore, screening mammograms are considered the international gold standard for early detection of breast cancer.

JBD-02K is an artificial intelligence breast cancer diagnosis solution that analyzes mammography images to detect breast micro-calcification. The solution is trained with a vast amount of verified mammograms so it can detect breast micro-calcification that are easy to miss due to its small size. Medical staff can use JBD-02K to facilitate early diagnosis of breast cancer and to promote fast and accurate results.

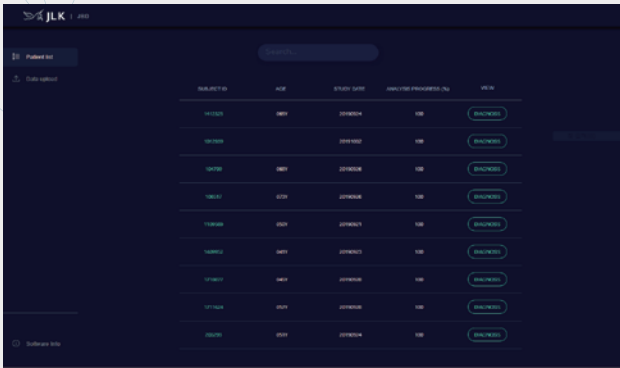
| Key Components & Performance

- Single Data Center AUC 93.00%
- Analysis Time : within 2s
- Convenient patient data management through PACS interworking
- Display analysis result within the web-based user interface

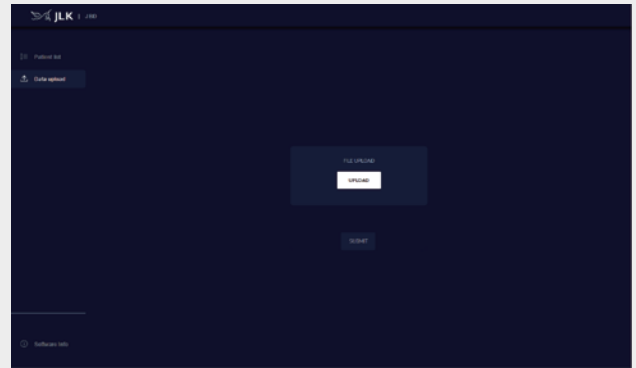
| Input / Output

- **Input Data** Patient's Mammography DICOM
- **Output Information** Breast Micro-calcification Area, Breast Micro-calcification Probability

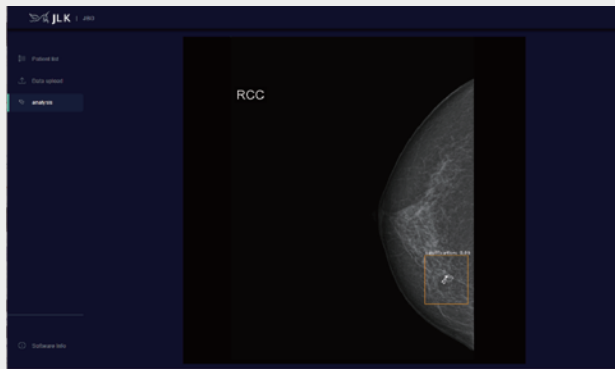
Solution UI



1 Analyzed breast micro-calcification patients list UI



2 Data upload UI



3 Breast micro-calcification analysis result UI

Unique Functionality

- Provides information management function of analyzed patients
- Applies a pectoral muscle area removal algorithm to prevent false positives
- Provide visualization on detected breast micro-calcification
- Provides analysis result report



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