UDE

UDE App is our newest iOS based mobile display solution that's capable of converting an iPad Pro into a standalone viewer, display, and server, all in one. UDE App offers many highly anticipated features, including the use of Artificial Intelligence (AI), an extendable reporting system, and more. With UDE App, medical imaging data from the PACS server/modality can be directly transmitted to an iPad Pro through DICOM communication for the purposes of displaying and storage. When connected with our in-house designed reporting system, UDE App can instantly turn a set of iPad Pros and a laptop into a fully functional mammography workstation with built-in mammography hanging protocols. The advancement of this versatile application facilitates communication of clinical information and overcomes traditional workstation barriers for the best possible patient care.

Feature Highlights

» Query/Retrieve images from PACS
» Receive, save images from modality
» Standalone server: Query, retrieve images from other viewers
» AI Embedded Model (Chest CR only)
» Meeting mode: Virtual consultation room
» Customizable mammography hanging protocols
» First In First Out (FIFO)

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Connecting Healthcare

A Quick
Overview

Building a PACS can sometimes be an expensive move to take for a hospital/clinic, which is mainly due to the high cost of equipment and system maintenance. Not only does the process require long term labor cost and expense, but also heavily relies on the local service team's expertise. The design philosophy of UDE is to be a supplemental option for PACS, providing more flexibility at all levels which includes cost, set up requirements, and maintenance. UDE runs on iPad Pro's that have a price advantage over PACS and is easy to set up; all data stored in the iPad Pro's can also automatically back up to a cloud server. If an iPad Pro breaks down, it can easily be replaced with a new one and by downloading the data from cloud in a short period of time, saves much time and cost over repairing a PACS. Utilizing iPad Pro's light weight and portability, UDE can have access to rural hospital/clinics or areas with insufficient medical resources on a mobile health services bus for medical assistance.

Query/Retrieve images from PACS

UDE App utilizes DICOM communication, enabling the possibilities of smooth data and image transmission between an iPad Pro and PACS. It's an optimized solution away from traditional workstations that can actively request any kind of medical image from PACS and present it on iPad Pro(s) for enhanced remote patient care.

Receive, save images from modality

UDE App receives imaging data from all types of modalities. All received data will automatically be stored in the iPad Pro's storage. It supports bidirectional communication for the highest flexibility and compatibility in every situation.

Standalone server: Query, retrieve by other viewers

UDE turns iPad Pro into a standalone server, which enables smooth imaging data transmission with other viewers through query/retrieve. It can be treated as an alternative to mini PACS and provides up to 1TB storage space, equivalent to *40,000+ DICOM studies.

AI Embedded Model (Chest CR only)

UDE App comes with a built-in Chest CR AI model for diagnostic support, and it can generate output that includes information of text and heatmap. The output is directly applied on the corresponding image. UDE's inference engine is highly scalable and provides enhanced efficiency to physicians' workflow. User can opt to turn this feature on/off.

Meeting mode: Virtual consultation room

By interconnecting multiple iPad Pros through the Internet, UDE App enables host server image sharing capabilities with other connected devices. All the notes marked by physicians will simultaneously be synchronized and displayed on all connected iPad Pros as they discuss. Not only can UDE be used for mobile image display, it also improves feedback exchange efficiency between multiple physicians.
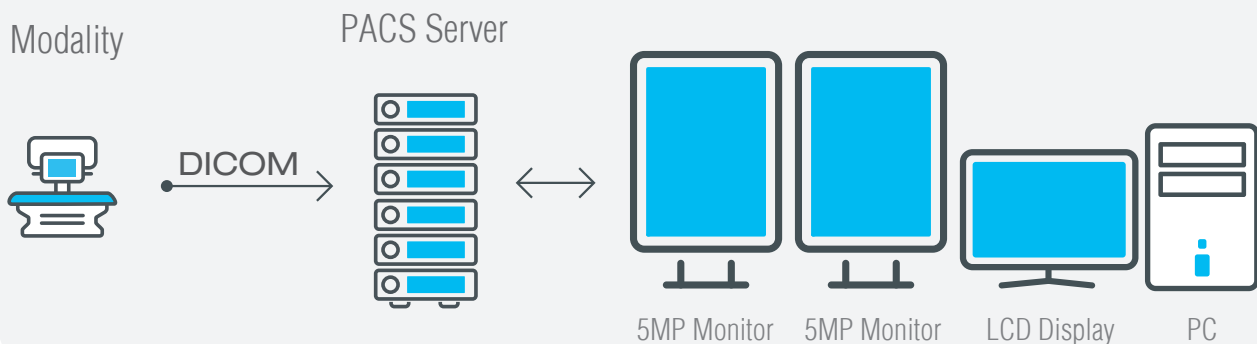
*1TB / 26MB per Mammo study

Customizable mammography hanging protocols

UDE-based viewer offers a full range of mammography hanging protocols that's fully customizable and ensures physicians to have the best mammography viewing experience on the go, without compromising the work efficiency and image display quality.

First In First Out (FIFO)

This feature helps ensure the iPad Pro's storage remains free at the minimum amount. That's adjustable by the user in Settings. UDE App will automatically remove the earliest imaging data to make room for the new data when it detects the storage space reaches the designated limit. User can opt to turn this feature on/off.

Current Workflow

Modality

PACS Server

DICOM

5MP Monitor   5MP Monitor   LCD Display   PC

Future Workflow

Modality

DICOM

M1   M2

iPad Pro 12.9"   laptop

M1 & M2: Server, Viewer, Display
Laptop: Report System

» DICOM Communication
» Portable Server + Viewer
» 5.6MP Resolution Display
» Simplified Configuration
» iPad Pro Backup Service
» Store 40,000+ images
   (1TB / 26MB per Mammo study)

*Use of this product for Mammography is strictly Review Only in the U.S.

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About EBM Technologies

EBM Technologies is a leading total solution provider of medical imaging systems, specialized in picture archiving and communication system (PACS) and systems for Personal Health Record (PHR) and Electronic Medical Records (EMR). Founded in 1988 in Taiwan, EBM Technologies has since expanded globally with a total of 150 employees and more than 3,500 hospitals being installed with our PACS across regions of Asia, North America, and soon to the Middle East. To meet the ever-evolving market demand, we have shifted our focus to mobile medical applications and AI integration solutions. At EBM Technologies, we strive to improve our products and services above and beyond industry standards for a better future in the healthcare sector. To find out more about us, visit our website: www.ebmtech.com

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