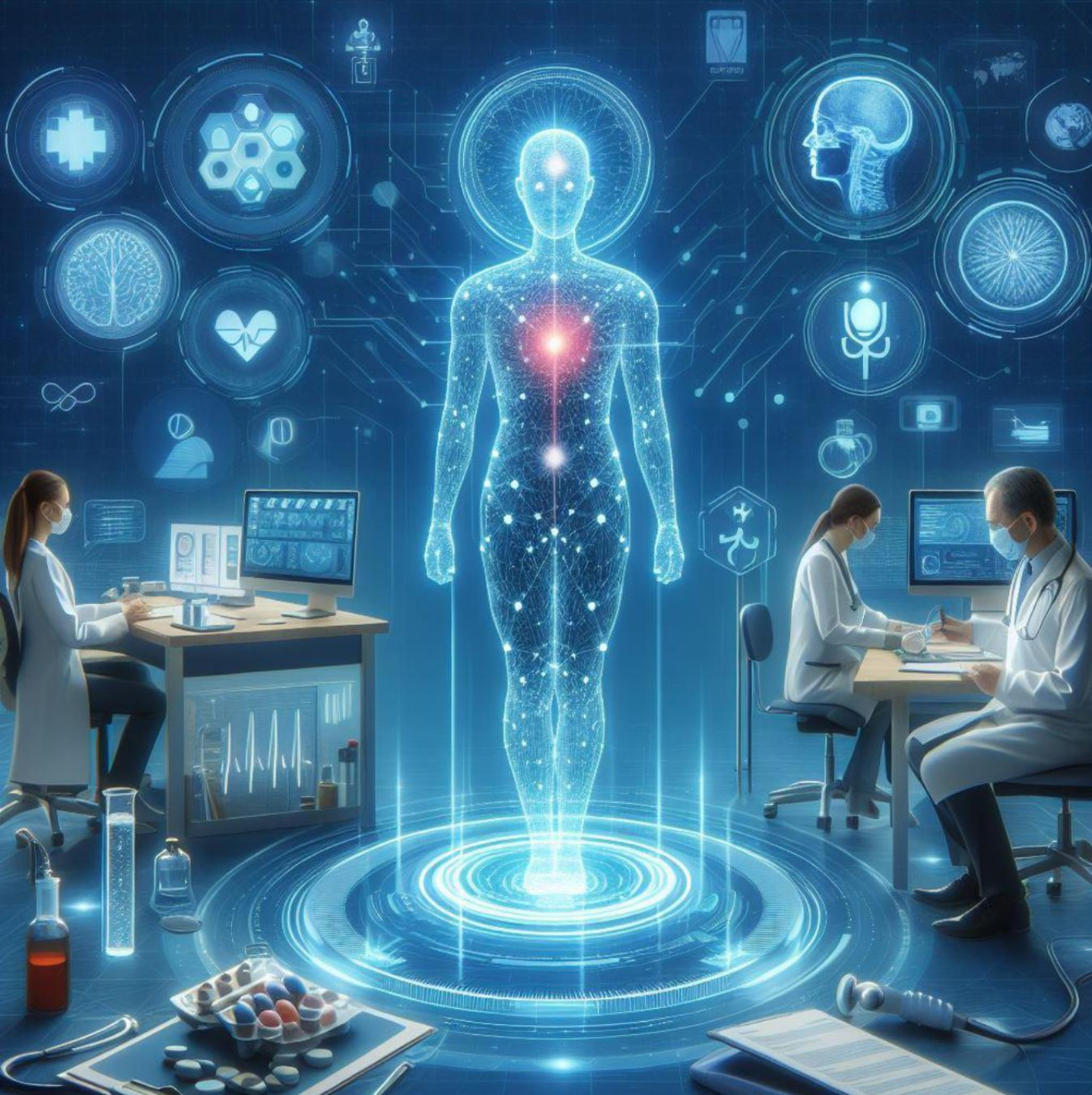




Health Sync



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Company Introduction



“
A huge multi-national
corporation deploying
global strategies
RXOWORLD
\$2,941,334,427,450
”

RXOWORLD

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Company Vision: A huge multi-national

corporation deploying global strategies

| Project Introduction



A Bluetooth IoT healthcare platform that controls devices, monitors health data, and predicts disease using environmental sensors and camera detection systems.

Mobile hospital



A portable, rapidly deployable medical support equipment that provides emergency medical assistance in disaster areas, battlefields, remote locations, large events, and high-traffic areas. It also offers real-time monitoring and easy operation through mobile apps and web interfaces.

Includes a computerized system for efficient patient management, enabling the use of medical information integration and AI-based diagnostic support systems in disaster areas and similar environments.



01

Building Management Functions

건물 관리 기능 소개



Air Quality Detection

Air quality sensors collect data on indoor carbon monoxide levels, carbon dioxide concentration, temperature, humidity, and dust distribution. Based on this collected data, the system enables adjustment and control of interior air quality.

Air Quality Automatic Control

Based on the detected air quality, the system automatically controls all electronic devices that can significantly impact air quality - such as air conditioners, humidifiers, heaters, and ventilation fans - to maintain the most suitable indoor environment.



건물 관리 기능 소개



Emergency Elevator Auto Call

Emergency Elevator Automatic Call system pre-positions elevators for emergency patients or medical staff, and automatically opens elevator doors to support rapid movement.

Light Control

The lighting automatically adjusts to match the operational status of medical equipment, maintaining optimized illumination levels for device usage. The brightness levels change naturally over time, supporting both medical staff and patients by providing the optimal environment for treatment.



건물 관리 기능 소개



Pharmaceutical Management Room Security

A comprehensive smart building management system for healthcare facilities featuring automated air quality control, emergency elevator services, adaptive lighting, MRI safety protocols, NFC patient tracking, and secure pharmaceutical storage to optimize medical operations and patient care.

Operating Room Sterile Environment Maintenance

Automated operating room sterility management system that continuously monitors air quality and environmental conditions through specialized sensors, automatically adjusting parameters to maintain optimal aseptic conditions and significantly reduce infection risks during surgical procedures.



건물 관리 기능 소개



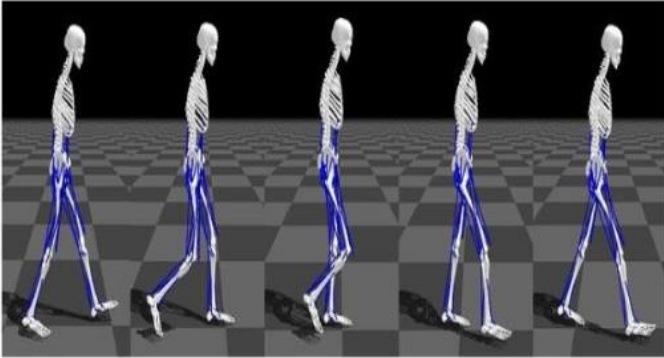
MRI Meta Detector

The system manages patient access to MRI examination rooms through magnetic sensors. Its purpose is to prevent patients and medical staff from inadvertently bringing metal objects or electronic devices into the MRI area.

02

Patient Management function

환자 관리 기능 소개



Indoor Patient Safety Management

Indoor Patient Safety Management

The system automates patient safety monitoring using vision AI models for real-time surveillance. It automatically detects and alerts medical staff to critical situations such as falls, seizures, and respiratory distress

Infrared Thermal Camera

Advanced infrared thermal imaging system that continuously monitors patient temperatures and automatically alerts medical staff when abnormal readings are detected



건물 관리 기능 소개



NFC-Based Individual Patient Management.

NFC technology is used to efficiently manage individual patient medical information, allowing medical staff to quickly access patient records, medication history, allergy information, and more by simply scanning an NFC tag, enabling more accurate and personalized medical services.



03

Diagnostic Support Functions

진단 보조 기능 소개



Polyp Analysis Model

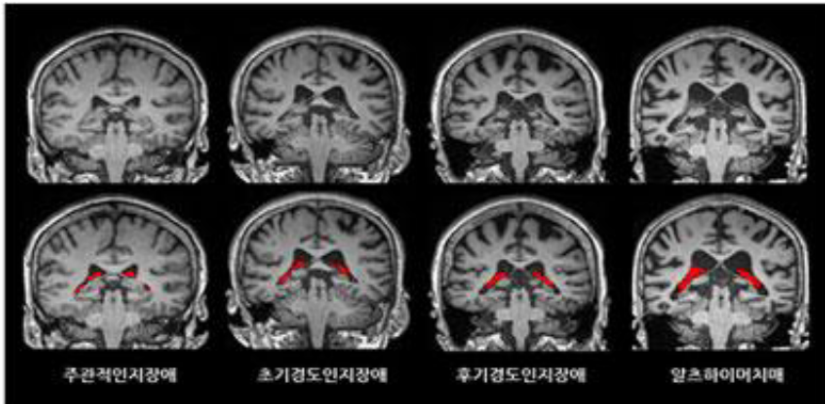
The System enhanced diagnostic accuracy by displaying bounding boxes on endoscopy screens, identifying the presence, location, and size of polyps to assist medical staff during procedures

Endoscopy 3D Mode

The system provides functionality to convert 2D endoscopic images into 3D models using endoscopic video data, allowing medical professionals to analyze lesions more precisely. This enables medical staff to more intuitively understand the shape and size of lesions, thereby improving diagnostic accuracy.



진단 보조 기능 소개



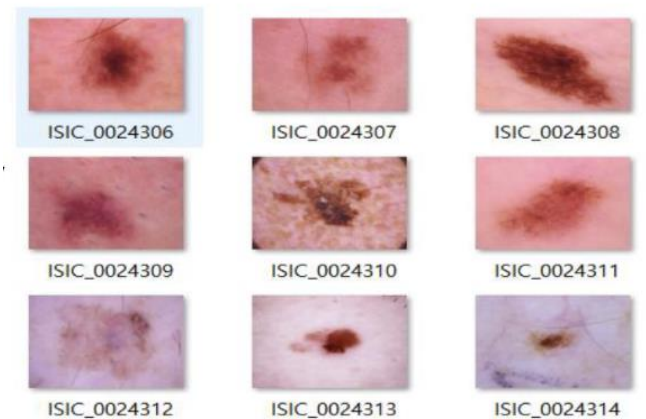
Dementia Diagnosis Prediction AI

Dementia Diagnosis Prediction AI

The AI analyzes brain MRI images to predict the presence and probability of dementia, providing lifestyle recommendations to patients for dementia prevention.

Skin Cancer Diagnosis Prediction AI

The system analyzes skin images to predict the presence of skin cancer and the probability of malignant tumors, assisting in early skin cancer diagnosis. This model recognizes morphological features of skin lesions and distinguishes between benign and malignant conditions to support medical diagnosis





THANK YOU