We will create a trustworthy hospital environment for both patients and medical staff with AI-PAM.



Company Adress

900, Baksa-ro, Seo-myeon, Chuncheon-si, Gangwon-State, Republic of Korea **Tel.** +82-70-5131-9378 **Fax.** +82-33-264-3218 **E-mail.** lab@geomex.co.kr







AI-PAM

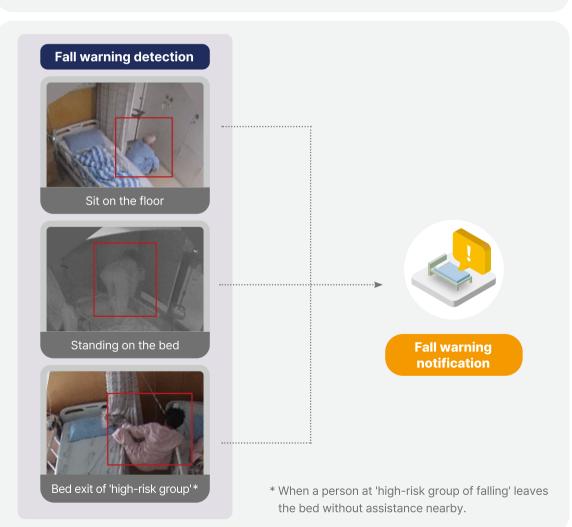
System Feature



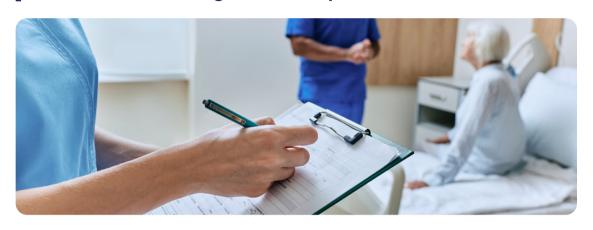
Al-PAM is optimized for multi-bed rooms, providing instant alerts to the nurse station in case of falls or other safety incidents in the patient room, enabling immediate response and support.

Fall Accidents and Alert Types





Reclassification of High-Risk Groups for Falls



Classification of fall risk group





No risk

AICCTV

- **⊘** Number of fall risk behaviors
- ✓ Number of fall accidents
- ✓ Judgment of dependency the day before Use of assistive devices and whether there is an assistant
- **⊘** Judgment of activity

Reclassification of fall risk group



AI-PAM

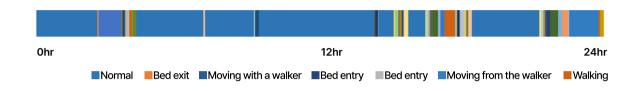
System Configuration



AI-PAM

Patient risk behavior collection report system

Collection of patient risk behaviors by time of day



Classification of risk behavior types

Behaviors
Moving without walking aids
Moving while holding an IV pole
Getting into bed
Getting out of bed
Transferring to a wheelchair
Transferring to a walker
Picking up or retrieving items from the floor
Opening and closing a hospital room door
Opening and closing drawer/refrigerator doors
Downloading bed rails
Using the bathroom independently
Transferring with a cane

Achievements



GS 1st Grade Certification



TTA Certified

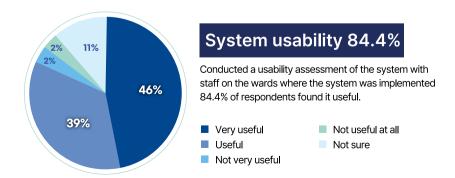


Effectiveness

	Before	After
General Hospital	18	12
Rehabilitation Hospital	41	29
Geriatric hospital	10	6

Number of falls reported per year (cases)

Usability Evaluation



Partners

♥ Currently in continuous operation since January '22



Achievements

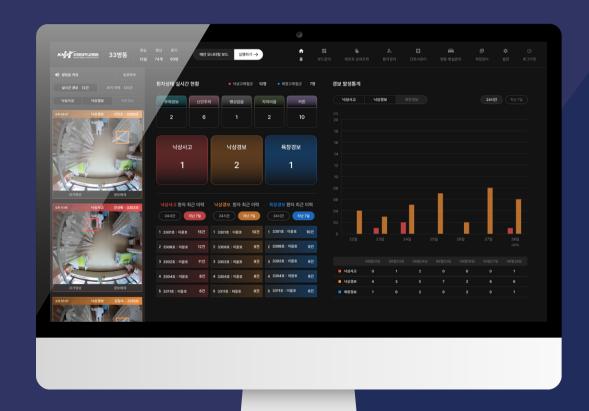
- **◎** 2024 Ministry of Science and ICT ICT Fund Excellence Performance 50 Selection
- 3 2023 Minister of Health and Welfare Award
- Ø 2022 Ministry of Health and Welfare Function Reinforcement Project Product Selection
- **3** 2021 Smart Hospital Leading Model Selection
- MOU Signed with Armed Forces Capital Hospital, Gangwon-do Rehabilitation Hospital, Chuncheon Senior Citizens Hospital, and Kakao Enterprise
- MOU Signed with Gorinkai Medical Clinic, Japan

Efficient nursing assistant interface through collaboration with nursing and quality management teams

Supports tablets, enabling flexible station expansion

304₫

Safety status and reporting system for patient management and accident prevention



Various notifications and patient-specific reporting

3.

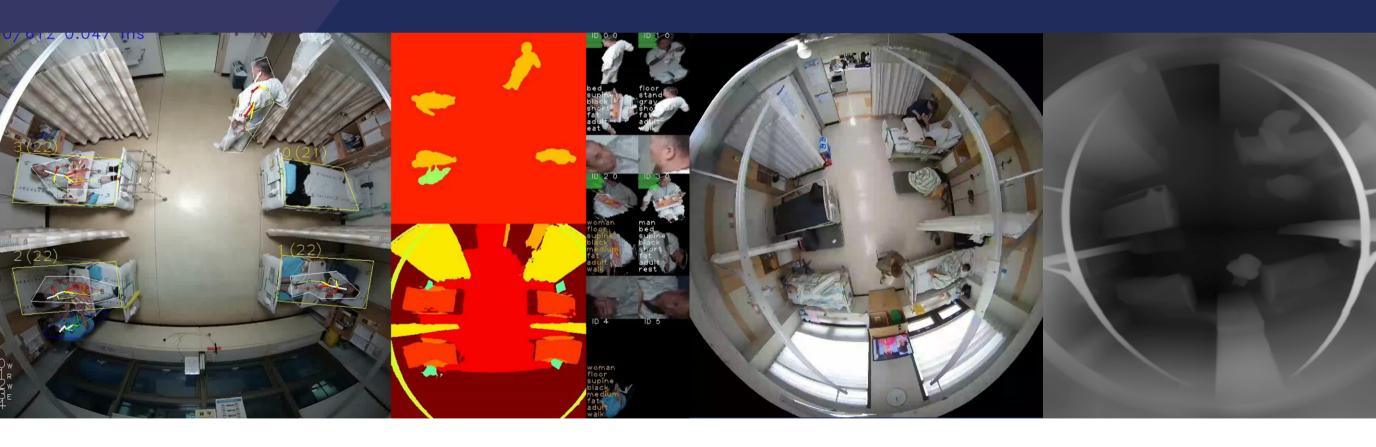
Analysis of patient and hospital room environment through person/object separation estimation

Individual patient tracking and hospital room usage environment analysis

4.

Deep Learning-based Object Detection and Distance Estimation

Deep Learning-based: Accurate floor detection through Depth Map(depth values) reduces the false detection rate.



5.

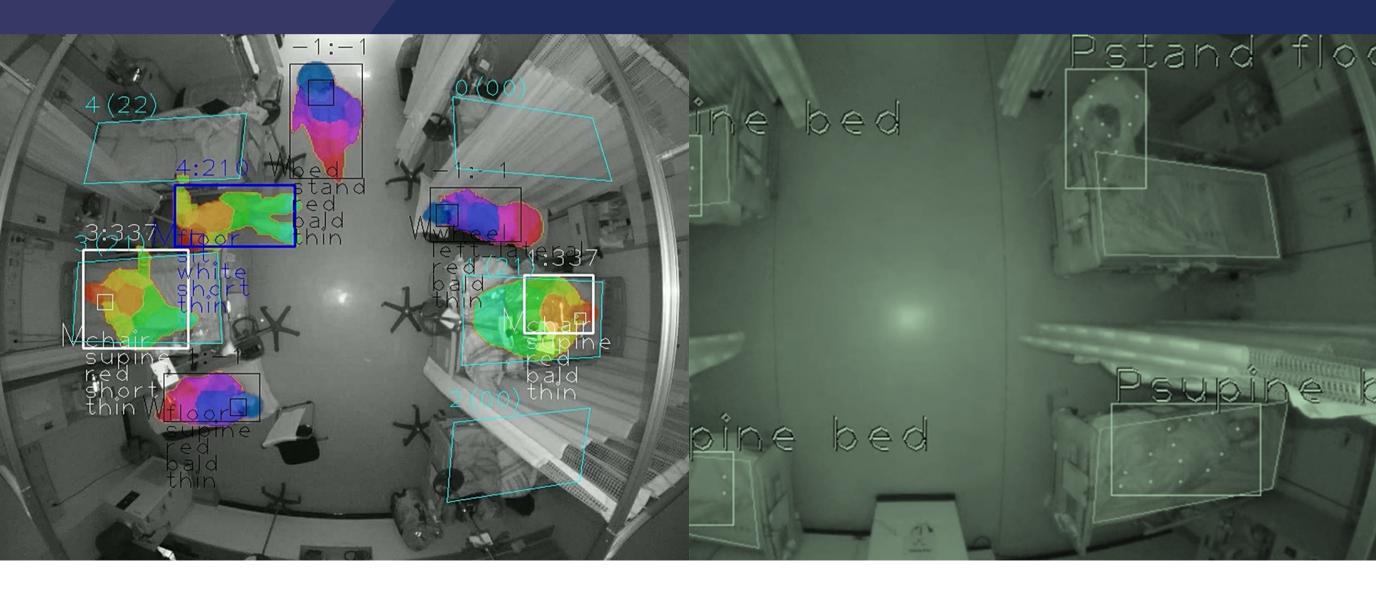
Patient/Medical Staff Masking System for Personal Information Protection

Provides curtain bed area non-detection function

6.

Day and night integrated detection system with perfect detection even at night

Supports infrared photography



AI-PAM

Global Exhibition

AI-PAM

Global Expansion





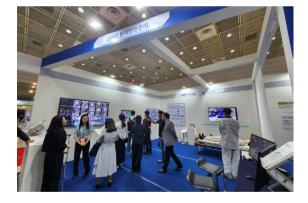




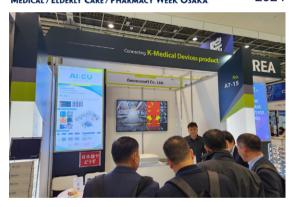


MEDICAL JAPAN OSAKA
MEDICAL/ELDERLY CARE/PHARMACY WEEK OSAKA

2024



2022, 2023



Korean Academy of Rehabilitation Medicine24



Korean Society for Quality in Health Care 24



Korean Convalescent Hospital Association
Academic Seminar 24



Consultation for Clinical Demonstration in EU

- **⊘** The North Estonia Medical Centre
- ✓ Tartu University Hospital
- ✓ Narva Hospital
- **Ø** Viljandi Hospital
- South-Estonian Hospital







Consultation for Clinical Demonstration in Japan

Medical Clinic Gorinkai





