

Reference Site White Paper

Site: Hallym University Medical Center

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Background

CMITech's EF-45 dual iris recognition system has been successfully deployed at the Hallym University Medical Center hospital in Anyang, Korea.

This implementation is in line with the government regulations of the Medical Law, which has been revised since October 2019, stating that “the name of the person entering the surgery room, the delivery room, and the intensive care unit and the purpose of access should be kept and stored.” Since then, CMITech's EF-45 and CMID Manager access control application software received a great amount of attention among Korean hospitals. Iris recognition is a highly favorable solution for identification in hospitals where the majority people are wearing the surgical mask and gloves. Additionally, EF-45 is contactless and hands-free—unlike fingerprint biometrics solutions. The recent COVID-19 outbreak makes hygiene one of the most important factors in selecting access control identification technology.

The World Health Organization also recommend that all healthcare facilities should maintain a record of all persons entering the patient's room, including all staff and visitors, according to their interim guidance of infection prevention and control when new COVID-19 infections are suspected. Therefore, a strict access control of hospital facilities and AIIR is mandatory to stop the spread of this highly dangerous virus and other contagious diseases.

EF-45 Dual Iris Recognition System

The EF-45 features industry leading convenience, usability, and customer acceptance through its highly innovative face display positioning system. Users position themselves into the capture zone by simply centering their face into the front facing display, much like a smart phone “selfie”, and then moving toward the system until multiple visual cues indicate the they are within the robust 35 to 45 cm capture range. In this way, the EF-45 is highly intuitive, and requires minimal training for subject to be able to utilize the system quickly and without any positioning problems. The system is an integrated terminal with all iris image acquisition and



processing performed on-board. Compared to prior generation iris imaging technologies that utilize a mirror and LED positioning approach, face display positioning provides superior ease of use in a compact system, making it ideal for all subjects including those with limited device familiarity.

The EF-45 is compact and lightweight, making mechanical integration simple and highly flexible. The system measures about 165 x 165 x 45 cm. System connectivity is offered in both TCP/IP (Ethernet) and USB options.

Deployment Overview

Hallym University Medical Center (HUMC), one of the largest medical institutions in Korea, consists of five general hospitals: Hallym University Sacred Heart Hospital; Kangnam Sacred Heart Hospital; Chuncheon Sacred Heart Hospital; Hangang Sacred Heart Hospital; and Dongtan Sacred Heart Hospital. HUMC operates approximately 3,100 patient beds in totals and has staffing consisting of 5,689 employees including 638 medical professors, all of whom have dedicated themselves to providing the highest quality medical care.

CMITech installed EF-45 in major units including 1 device for enrollment station along with CMID Manager. Currently, there are more than 3,000 hospital employees are enrolled.





<EF-45 is installed at C.C.U, NCU, Delivery room, Emergency room>

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