

CONTACTLESS BIOMETRIC RECOGNITION & FEVER SCREENING SYSTEM

Biometric Recognition & Fever Screening at once!!

NAME : UNION
No. : 20205023
Address : Songpa-gu, Seoul, Korea

Anti-Spoofing Attacks Against Fake
3D Mask and More

Access Control

Face Recognition

Face Recognition

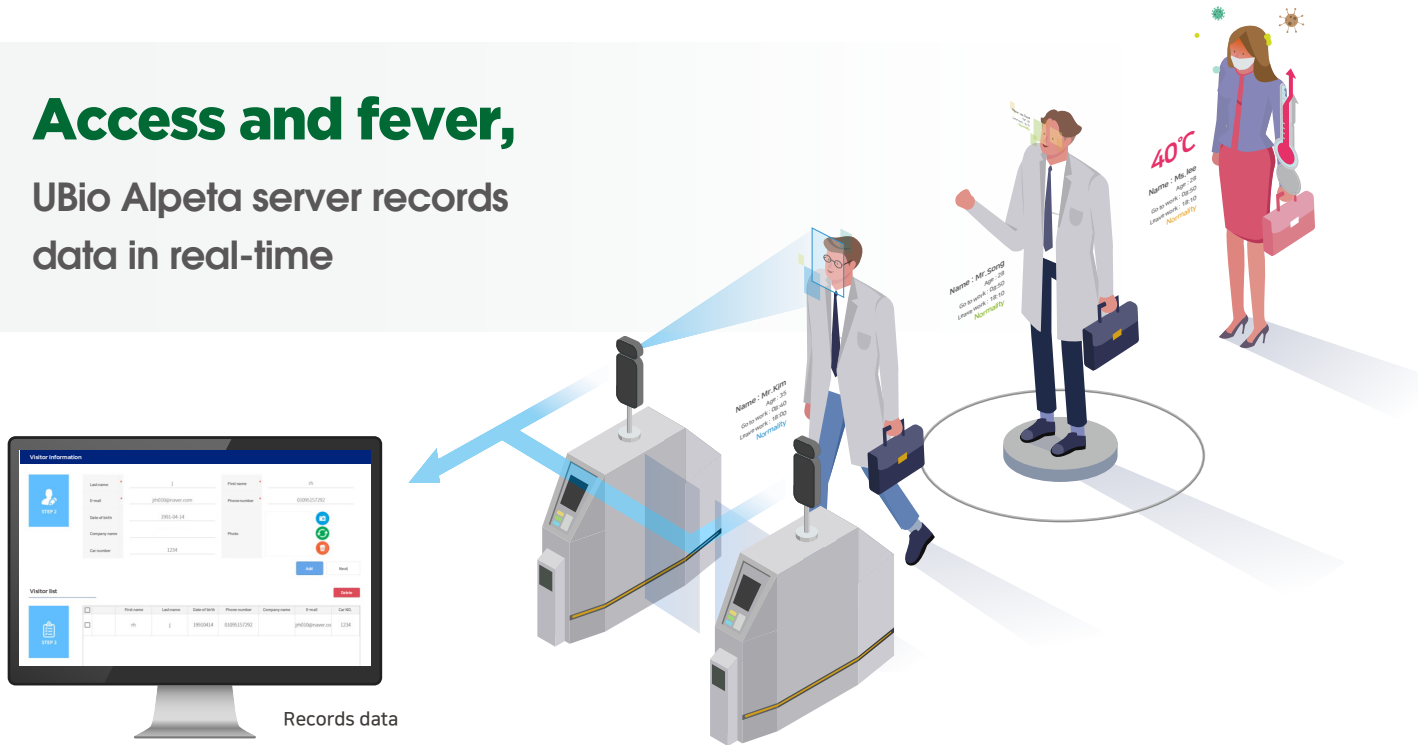
Real-Time Face Recognition
with Deep Learning Technology

36.4°C
temperature

Contactless Biometrics Recognition & Fever Screening System

The contactless systems of UNIONCOMMUNITY are equipped with high-resolution thermal detection modules produced in Korea to provide high-definition thermal images and accurate measurements.

Access and fever, UBio Alpha server records data in real-time



Features



Rules out infection risk by contactless authentication



Quick and accurate fever screening and management



Contactless biometric authentication/fever screening with thermal detection module



Useful for commercial facilities, schools, and construction sites, hospitals, other educational institutions and more



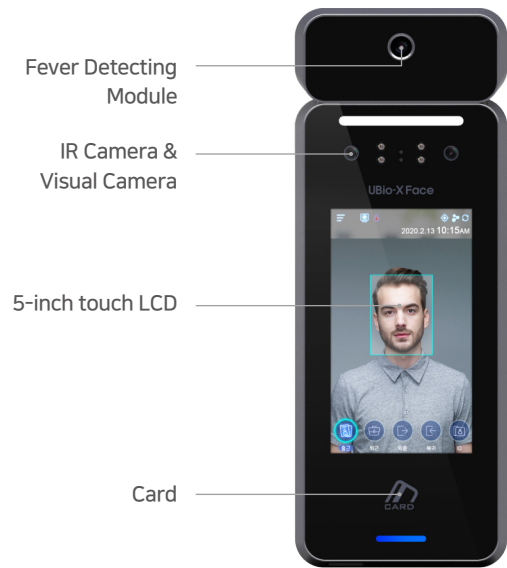
Block visitors with fever and records data to the server in real-time

Contactless Facial Recognition & Fever Screening System

UNIONCOMMUNITY's UBio-X Pro2 & UBio-X Face supports the deep learning algorithm, and it accurately recognizes and authenticates faces at a distance up to 3 meters. UBio-X Pro2 & UBio-X Face and detect visitor's face mask. In case visitor is not wearing any mask or wearing improperly, access denied and the device warns visitors to wear mask right.



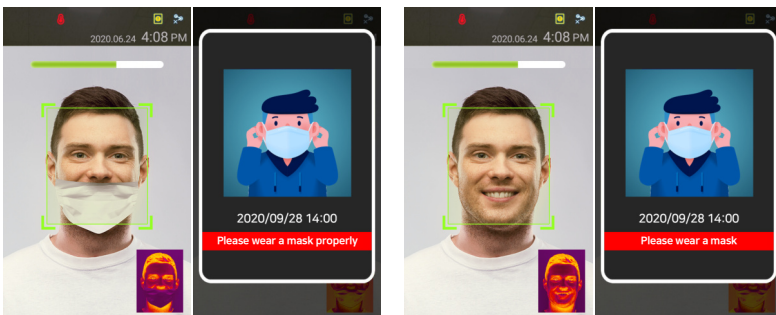
UBio-X Pro2 TI



UBio-X Face

Features

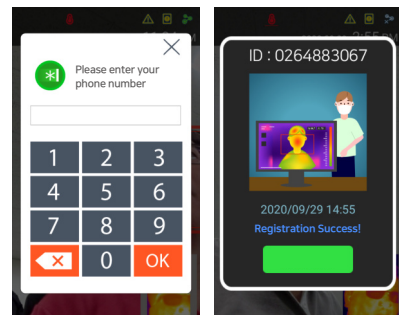
① Mask detection function (3step)



Mask covering chin only -
Please wear a mask properly

Mask not worn - Please wear a mask

② Simple and easy visitor registration



Unregistered visitors can enroll themselves by simply inputting mobile phone number, and the records are stored to the server

Contactless Iris Recognition & Fever Screening System

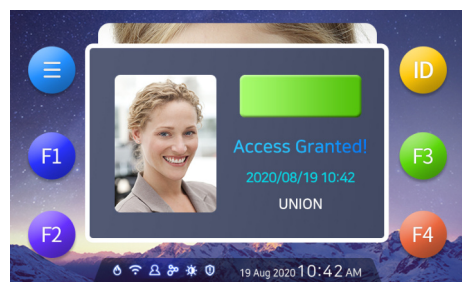
UNIONCOMMUNITY's UBio-X Iris is equipped with an auto tilting camera. It accurately recognizes and authenticates iris at a distance up to 50cm. UBio-X Iris can also detect visitor's fever through thermal detection module. UBio-X Iris detect iris and authenticates regardless of mask, identical twins, hijabs, eyeglasses and even after plastic surgery.

UBio-X Iris TS

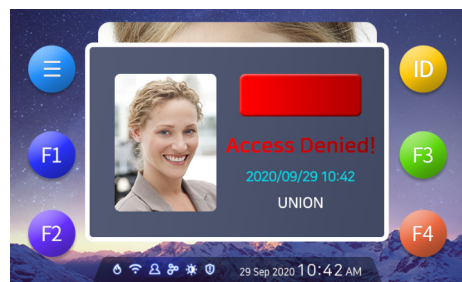


Features

① Fever screening

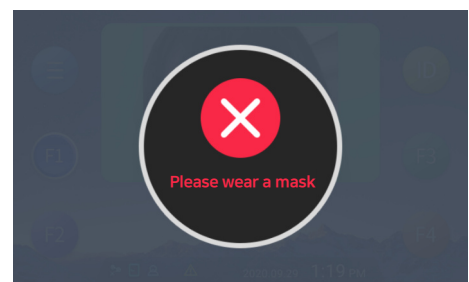


Normal Authentication -
Shows green screen with approval notice

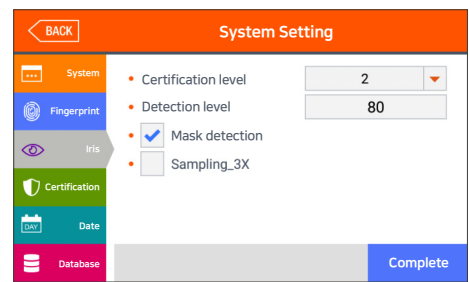


In case of fever detection -
Access will be denied with red screen notice

② Mask detection function



Mask not worn - Please wear a mask



Mask detection function (On/Off)

Fever Detection Module Specification

Model	Thermal-i	TE-Q2
Classification		
Type	Fever Detection Sensor	Micro-Bolometer (uncooled)
Thermal Sensitivity	≤140mk, 1Hz	≤ 50mk(@F/1 300K)
Frame Rate	12 fps	30 fps
Array format	32 x 32	384 x 288
Temperature Accuracy	± 0.3°C	± 0.5°C
Dimension (mm)	60 x 22 x 12mm	42.5 x 44.6 x 42.7mm
Temperature Distance	Adjustable, 0.3 ~ 2M	Adjustable, 0.3 ~ 2M
Control	USB	USB2.0, RS232, I2C, UART
FOV (H x V)	33 x 33	37.9 x 28.7 -46.4
Operating Temperature	-20°C~60°C	-10°C~65°C
Scene range temperature	0°C~120°C	-10°C~150°C
Focal Length	5mm	9.7mm
Power supply	DC 5V	DC 5V
Power consumption	<38 mA	<1.8W@(30HZ)

Integration Available Terminals



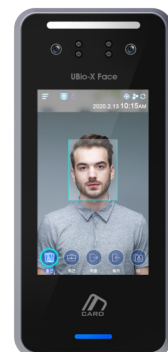
UBio-X Iris

Next Generation Iris Recognition Terminal



UBio-X Pro2

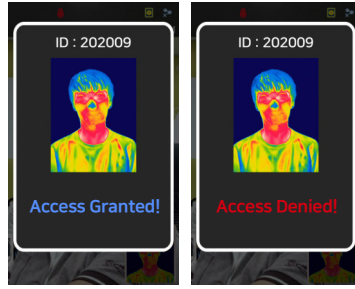
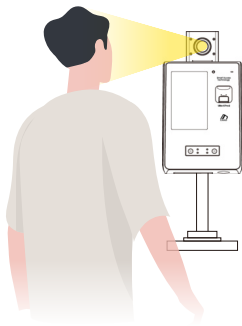
High-End Facial Recognition Terminal



UBio-X Face

Slim Design Facial Recognition Terminal

Fever Screening Operation Example



Normal temperature Abnormal temperature



① Authentication & fever screening at the same time

② Display fever screening result with thermal image

③ Access granted when normal temperature, Access denied when high temperature

Installation Example



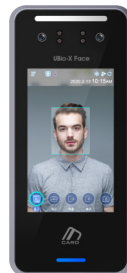
Stand



Movable



Desk



Wall Mount

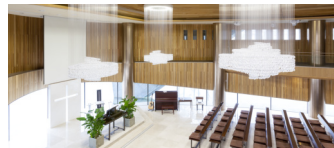


Speed Gate

Use Cases



Hospitals



Religious facilities



Cultural facilities,
Venue of events



Educational facilities
/ Commercial facilities



Public transportation : Subway, Bus, etc.



Convenience facilities, Restaurants, Fitness centers

