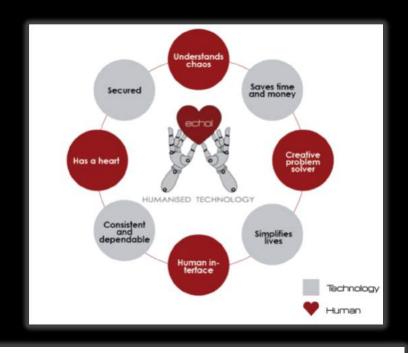




Access Control with Face Ai

Face Ai – Access Control

Echol was established in 2007 in Singapore as an innovative solution specialist focusing on assets tracking and management. Over \$100 million of solutions were delivered in the past 13 years. They believe in constant innovation and in aiding technology as a source of help to human and not as a replacement for them.















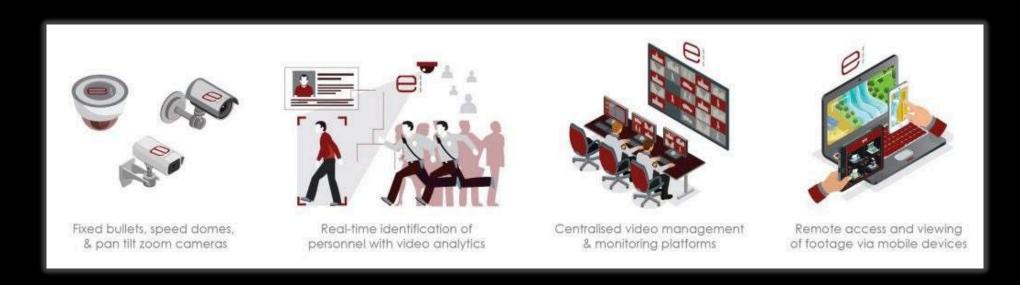
Echol's solutions – eConcierge

elConcierge

Building & Facility Management Solution

Product Modules:

- Visitor Management System
- Queue Management System
- Personnel and Vehicular Access Control System
- Time Attendance and Headcount System





Echol's solutions – eConcierge

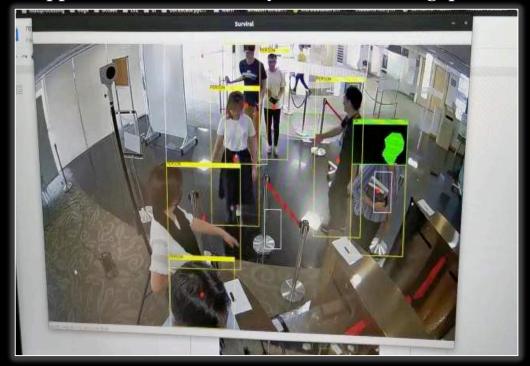
eConcierge uses interactive and intuitive technologies such as dynamic facial recognition, speech recognition and SMS/email notification. eConcierge's flexible cloud platform provides real-time information on the status of visitors.

Using cameras, coupled with more robust Visual AI software allows for more flexible image capture, get updates whether they have signed in or out; accessible anytime and anywhere with just a web-enabled browser or any smart mobile device.

Automated Flap Barrier (Recommended)



Application: NUS Library – Gov Tech Singapore





Key Features

AI driven analysis of faces, masks and temperature Ability to rapidly deploy, relocate or reposition as needed

Integration with smart contactless gantry, access control & attendance systems

Thermal
Scanning &
Facial
Recognition
Gantry

1.Single File Mode with Existing Thermal Camera

2. Tablet Kiosk Single File Mode 3. Multiple Entry Mode for Retail Shops/Malls

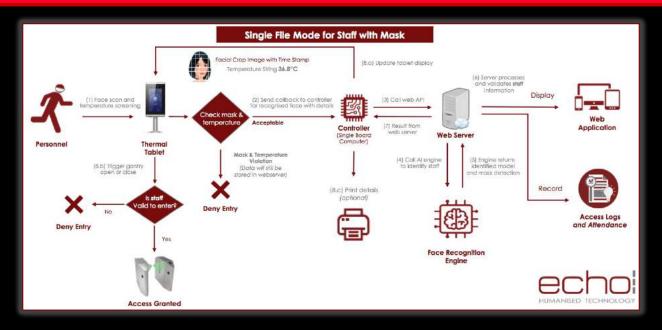
Can operate with existing thermal images & independent rechargeable battery

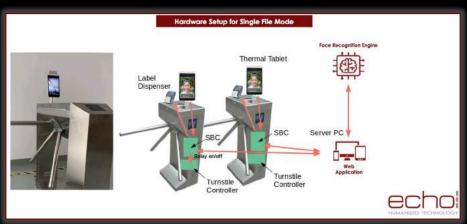
Possesses edge computing & automated alerts/ triggers for contact tracing

Tags humans with faceprint/temperature readings & BLE sensors compatible



Echol's solutions – eConcierge

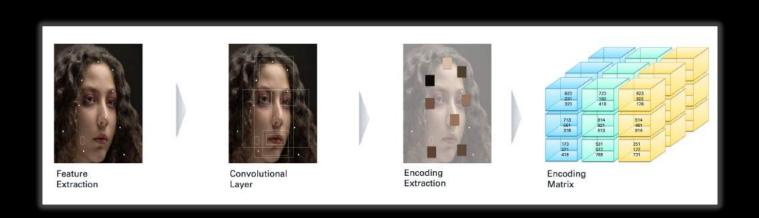






Verasight

- VeraSight's facial recognition algorithm uses 128 data points to maximize the likelihood of a match in dark lighting and poor angles.
- The Deep Neural Network (DNN) extracts encoding after applying multiple convolutional layers and detecting multiple features of a face. The algorithm can pick a face with just 48 pixels.
- VeraSight's algorithms can recognize a face in Full HD at 30 feet and in 4K at 100 feet distance.
- VeraSight uses state-of-the-art Edge Computing to recognize and match faces at the device level where possible.



VA Application 1: Dynamic Facial Recognition



<u>Application 2</u>: Illustration of vehicle detection and queue formation for Gantry-1



Clientele





























































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