

Smart Residential Solution

Intelligent Technology for Residential Buildings

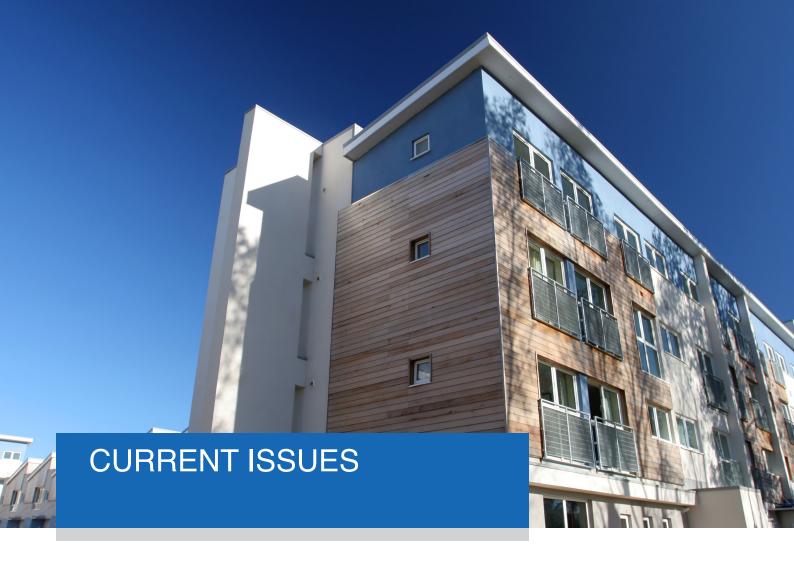


UK & IRELAND



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CURRENT SITUATION

Isolated Systems





High Management Costs



Poor Owner Experience



TRENDS

In the residential sector, many customers prefer intelligent and automated services because they are simpler and more flexible. These services have developed technologically over time and are now more user-friendly.



ΑI

Face recognition, ANPR, Cloud etc.



IoT

Water & Electricity Smart Meters, Voice Controls, Smart TV, Intelligent Curtains/Blinds etc.



Integration

Management of Multiple Integrated Systems



Mobility

Online Service, Pay Online, Call Online etc.



SOLUTION OVERVIEW





AI EMPOWERS RESIDENT SAFETY



PUBLIC AREA PROTECTION

Challenges

- It is harder and takes longer to respond to an incident in a large public area.
- Installing multiple cameras increases the cost of the installation, including increased labour costs.









Corridor

• One camera can cover two directions.

Playground

• Stitching 4 cameras covers a large field of view and replaces multiple cameras.

Lift

 Wireless connectivity and small cameras ideally suited for lifts.

Lobby

One camera covers the whole area and provides 360° degree coverage.

Lower Cost

• One panoramic and one Fisheye camera can replace multiple normal cameras to cover a larger field of view.

Easy Installation

• All the devices support an all-in-one and easy to install design.

PROTECTION OF SHARED FACILITIES



Management Centre Entrance



Gym



Laundry Room



Business Centre



Server/IT Room

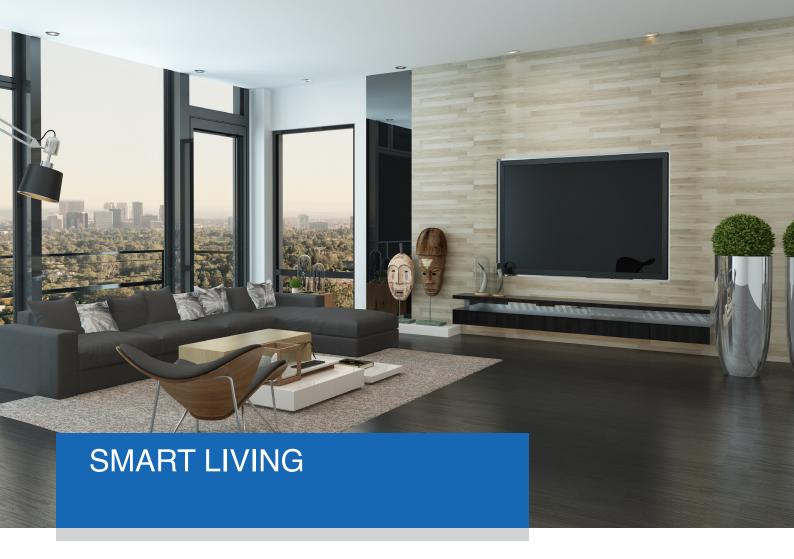


Integrated Overview Cameras

Every time the door opens overview CCTV cameras are recording making it safer and more secure for owners/residents.

Face Recognition Access Control

By using Al-powered face access control owners can use Face images to enter the shared facilities, while unauthorised people won't be able to. This helps protect the safety of the residents and secures the facilities.



CONTACTLESS ENTRY



Entrance



Management Centre





Al technology helps speed up the recognition speed

Use Face access to enter all



Home



Lift



Apartment Block

Function

Touchless

Efficient

areas

Personnel Management

- Gate opens with a quick recognition speed of under 0.2s
- Swing Barrier supports ROHS



ANPR



Face Recognition





Lift Control

Recognition

• Contactless Lift Control

• Barrier supports ROHS

Vehicle Management• Wide Lane Number Plate

 Supports one card one layer, one card multi-layer and fire protection mode to ensure owner safety



SMART, SAFE HOMES



Values



Home Safety

Integrate with public space cameras and remotely check the whole area



Smart Home Control

Owners can use smartphone and VTH to enable smart home control



Open API and Easy Integration

Our Android VTH supports an open API and embedded 3rd party apps



Mobile Service

Owners can use APP to answer calls, check the video, recieve alarms and book visitor appointments



VISITOR MANAGEMENT

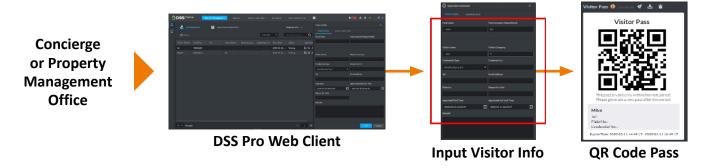
Challenges:

- There are lots of external contractors coming in and out on a daily basis which causes safety and security concerns.
- Visitor management records mostly rely on manual data inputting which is hard to manage and inefficient.

General Visitors



Temporary Visitors





Notes: After generating a QR code, the number plate number will automatically upload to DSS.





Pre-registration



Strict Authority Control



APP Embedded Integration



Automatic Sign-out



Digital Visitor Records

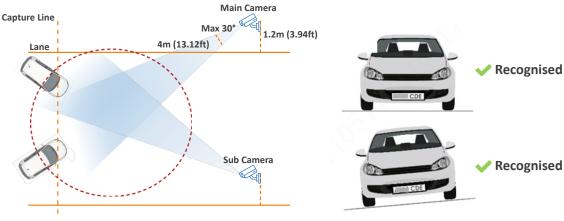


APP Operation

WIDE LANE NUMBER PLATE RECOGNITION

Challenge

- In some residential areas the lanes are very wide and it is difficult to divide into two lanes.
- The driving direction of the vehicle is unknown and the front of the vehicle will tilt to the left or right, resulting in the failure of the number plate recognition.



- Wider recognition area
- Suitable for multiple driving directions





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Search Results



Precise Recognition Missing Nothing

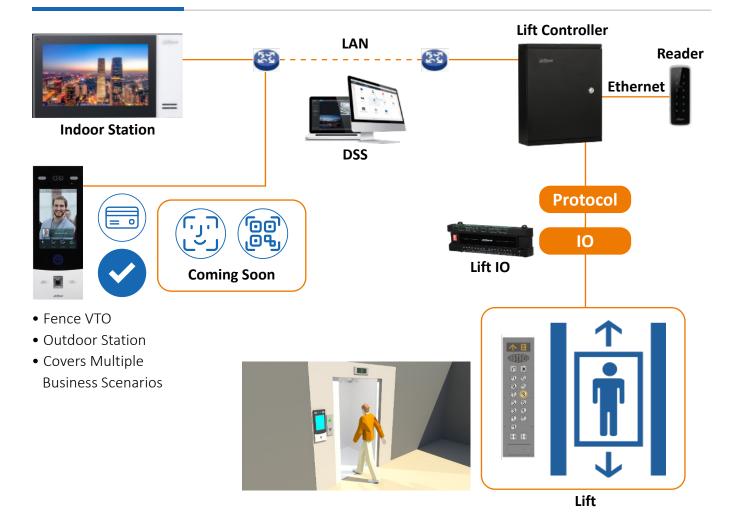
- When a vehicle passes by, as long as the recognition result of one of the two ANPR cameras matches the white list, the system will open the barrier automatically. [Barrier open time < 0.5s]
- Based on a physical connection, camera A and camera B are able to take pictures synchronously.

No Duplicate Records

• Only one instance of passing-by will be recorded.



LIFT CONTROL



1. Residents Returning Home

• Enable residents to arrive at their own floor using access card

2. Residents Leaving Building

- The owner presses the call lift button
- Supports being able to remotely restrict access to certain floors

3. Visitor Mode

- Visitors call security staff or residents via VTO
- Visitor enter into lift within a certain time frame

4. Other Features

- One card multi-layer management
- Fire alarm integration



BETTER SERVICE, BETTER EXPERIENCE



Indoor Station



Outdoor Station

01 Simple Communication between Residents and Property Managers

- "One Click" to call concierge for help or view cameras
- Quick response and efficient communication channel



02 "One Click" Information Releases

- Send messages to one or multiple residents
- Send messages or advertisements on digital signage



Software



AI Camera Version EOL









Digital Signage

Information Releases

- By using MPS, property manager can release messages instantly.
- Supports different display modes.

Serving Adverts

• Displays advertisements



FLEXIBLE AND OPEN

Challenges:

- There are lots of issues with traditional property management, such as false time and attendance, absenteeism etc.
- It is difficult to unify the management of the property management personnel responsible for looking after the estate.

Process

1. Personnel Management

Set AI access control devices or attendance devices at attendance points











2. Attendance Time

Fixed attendance time Flexible attendance time



4. Shift Arrangements

Personnel shifts and department shifts



3. Attendance Shift

Cyclical Mode: by day, week and month



5. Attendance Reports

Attendance reports, card-swiping records and abnormality reports

Values

- Flexible time and attendance management deters behaviour such as false time and attendance
- Open API and easy integration output standard API of time and attendance data for 3rd party integration





SMART SOFTWARE MANAGEMENT FOR A SMART COMMUNITY



Visitor Management

- Multiple visitor identification modes
- Visitor management
- Authority control



Video Management

- Simple live view helps to maintain order
- Multiple playback modes helps to retrieve evidence quickly



Event Management

• Event centre makes guards respond immediately in relation to unusual events



Call Centre Management

- Supports multiple simultaneous call answering
- Supports integration with 3rd party call scheduling systems



DSS Pro

Better service from concierge and powerful platform enhances operator efficiency.



Central Avenue

Bostandyk, Kazakhstan



Background

Central Avenue is a high class residential complex built by the BI Group. The project consists of 13 buildings and almost 1,000+ dwellings in total.

Solution

Video intercom: 10-inch Android VTH indoor monitors. Entrance & Exit: ANPR cameras for vehicle identification. Public areas & lobby: 300 channels of CCTV cameras and back-end devices.

Central management: Dahua software platform for centralised management.

Result

Improves traffic efficiency, enhancing the living experience for residents.

Fort Dunlop

Birmingham, UK



Background

Much of the site's previous video surveillance system was no longer meeting basic requirements.

Solution

Installed over two phases, the design consists of a total of 96 static and PTZ cameras from full HD to 4K resolutions.

Result

The Dahua CCTV system has assisted the management of Fort Dunlop in ensuring the security of its staff, visitors and of the building.





5MP WDR IR Eyeball AI Network Camera

IPC-HDW5541HP-AS-PV



4MP Full Colour Bullet Al Network Camera

DH-IPC-HFW5442TP-AS-LED



4x8MP Multi-Sensor Panoramic IR Bullet Network Camera

DH-IPC-PFW83242P-A180



4MP 25x Starlight+ IR PTZ AI Network Camera

SD5A425XA-HNR



Face Recognition VTO

VTO7541G



Indoor Monitor

VTH2421FB (W)-P



10-inch Android Digital Indoor Monitor

VTH5341G-W



Master Station

VTS5240B





Face Recognition Standalone Terminal

ASI8214Y-V3



Swing Barrier Turnstile

DHI-ASGB8xxX-L/R/D



Lift Controller

DHI-ASMH21



Floor Standing Digital Signage

DHI-LDV55-SAI200



55" FHD Video Wall Display Unit (Ultra Narrow Bezel 3.5mm)

DHL550UCM-ES



2 Megapixel Full Al Access ANPR Kit

IPMECS-2201C-IR



Barrier Gate

DHI-IPMECD-301x



Comprehensive and Expandable VMS

DSS Pro



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Leeds

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Dahua UK & Ireland



NOTES



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Driving Innovation to an AloT Future

* AloT is the convergence of Artificial Intelligence (AI) and the Internet of Things (IoT) where connected devices meet human interface. This is enabling unlimited possibilities through the integration of connected devices and security solutions.

Design and specifications are subject to change without notice

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