

Smart Transportation Solutions

Making your Journey Safer



UK & IRELAND



SMART TRANSPORTATION SOLUTIONS UK & IRELAND

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ELEMENTS



Motorway Infrastructure



Vehicles



Traffic Incidents

CHALLENGES



Manpower Shortages

REQUIREMENTS

Operational Monitoring



Speeding Vehicles

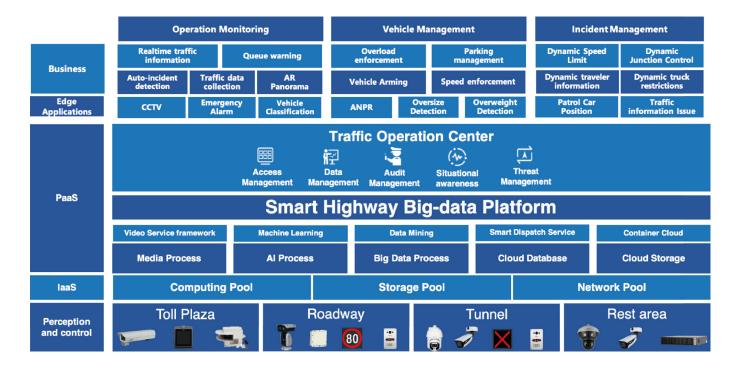


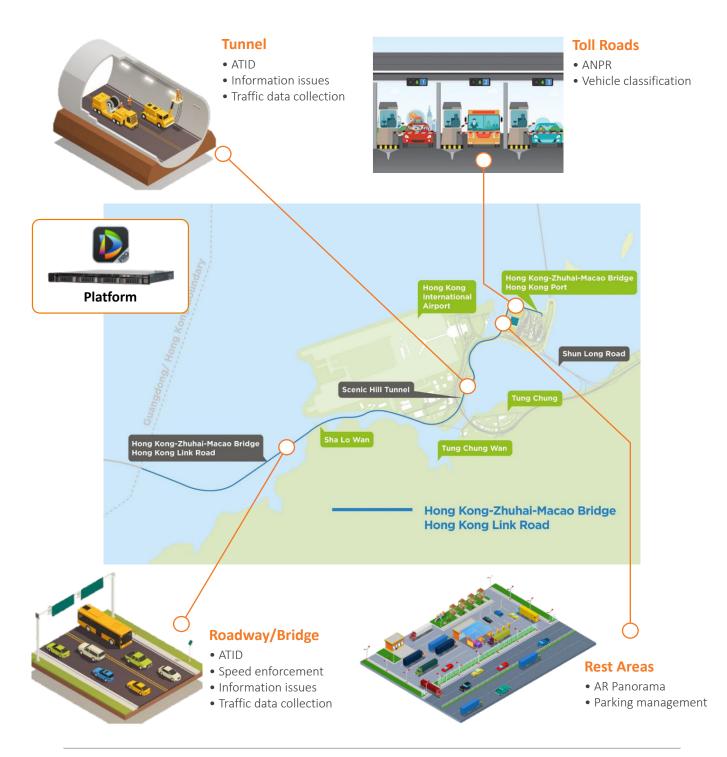
Traffic Congestion

Vehicle Management

Incident Management









Operational Monitoring How to quickly know the status of the motorway network? How to automatically detect incidents and send alarms?



Vehicle Management How to manage vehicles on the motorway? How to obtain evidence for traffic violations



Incident Management How to avoid incidents? How to respond quickly to traffic incidents? How to manage traffic when an incident occurs?

SOLUTION INTRODUCTION

VEHICLE MANAGEMENT

Solution

Speeding Management

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Helmet Detection



Speeding



Vehicle Management



Vehicle Information



- Vehicle make • Vehicle speed
- Vehicle colour
- Number plate

Benefits

Vehicle Information Collection:

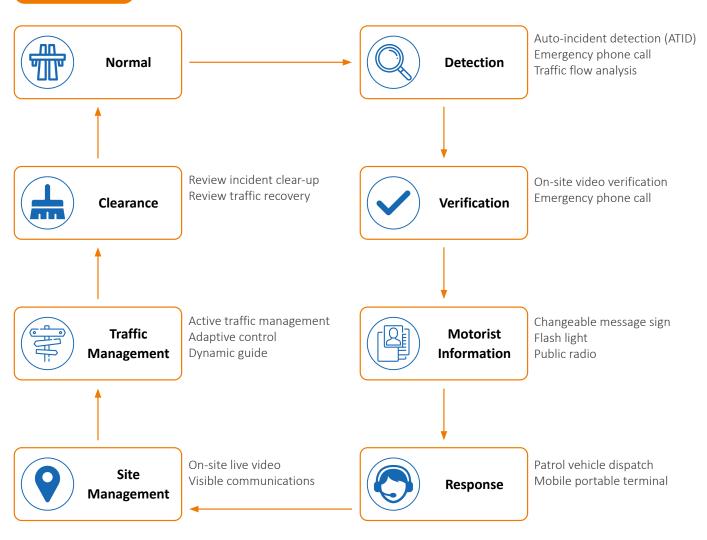
Number plate, type, speed, colour and helmet detection etc. This information could be used for revenue analysis and administrative enforcement.

Vehicle Speeding Enforcement:

Portable/fixed speed detection, average speed detection, suitable for different scenarios. Highly accurate and can be used for enforcement evidence.

INCIDENT MANAGEMENT

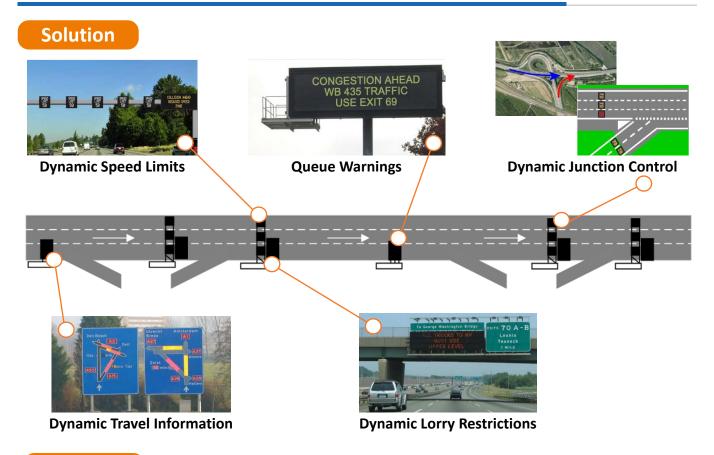
Solution



Benefits

- Incident management reduces congestion and further knock-on effects related to the original incident.
- Incident management also helps with on-site management of emergency services and other rescue teams.
- Using Active Traffic Management sub-systems including Dynamic Speed Limits, Queue Warnings, Dynamic Junction Control, Dynamic Travel Information and Dynamic Lorry Restrictions, it is possible to fully optimise traffic.

INCIDENT MANAGEMENT - ACTIVE TRAFFIC MANAGEMENT



Benefits

- Dynamic Speed Limits: enforceable speed limits, making traffic flow more smoothly.
- Queue Warnings: Informs drivers of the presence of road works or traffic problems on their route, making traffic flow more smoothly.
- Dynamic Junction Control: Dynamically allocates lane access on carriageways and slip roads at major intersections to reduce the possibility of further incidents/accidents.
- Dynamic Travel Information: Diverts traffic to alternative roads/routes.
- Dynamic Lorry Restrictions: Restricts lorries from using certain lanes to increase road capacity.

OPERATIONAL MONITORING - DASHBOARD



Benefits

- Visible Management: Traffic flow, traffic incident alarms, services (rest areas) and route analysis data.
- GIS-based information display: Real-time traffic data and equipment location.

OPERATIONAL MONITORING - AUTOMATIC INCIDENT DETECTION

Solution



Parking Detection



Fire/Smoke Detection



Obstacle Detection



Congestion Detection



Traffic Flow Data Collection



Pedestrian Detection

Benefits

- Time to detect an incident is less than 1 minute.
- The ATID system provides motorway coverage of the individual lanes and has the capability to immediately and accurately detect and report an incident at any location on the motorway.

OPERATIONAL MONITORING – ALL-IN-ONE PLATFORM

Solution



Toll Lane Management



Auto-Incident Detection

Benefits



Video Surveillance



Emergency Alarms



Changeable Message Signs

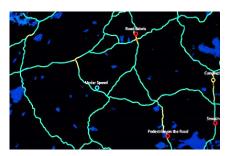


Traffic Data

• One platform integrates CCTV, ATID, Toll Lane ANPR, VMS, Emergency Alarms and Multiple Traffic Data systems.



SOLUTION BENEFITS



Operational Monitoring

- Reduces manpower costs
- Visible traffic management
- Quick to detect incidents



Vehicle Management

- Collects vehicle information
- Reduces speeding vehicles



Incident Management

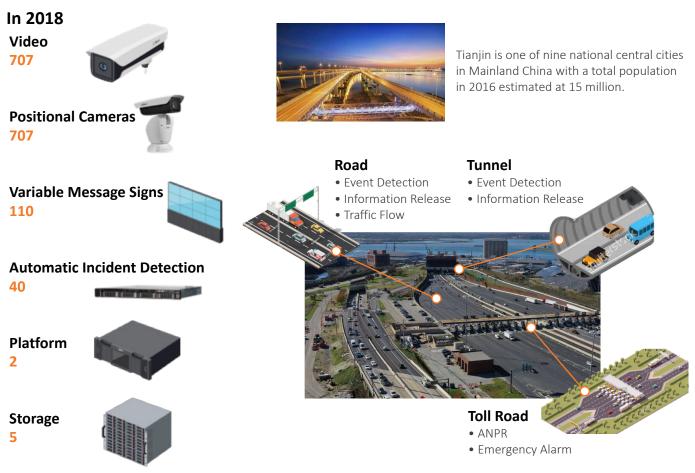
- Reduces traffic congestion
- Reduces accident rates
- Reduces fatality rates
- Optimises motorist information

MOUTE

TO J12 (FOR M62) 4 MILES 4 MINS

SMART MOTORWAY CASE STUDIES

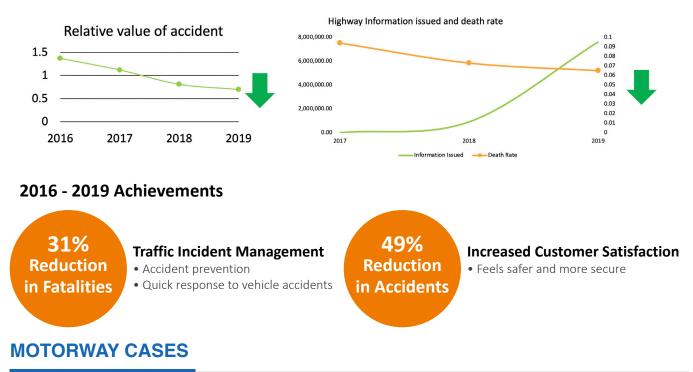
THE SOLUTIONS WE PROVIDED



SMART TRANSPORTATION SOLUTIONS UK & IRELAND

BENEFITS

Since 2016 a motorway has been using the Motorway Management System – traffic accident detection and the information release system. The overall results are a significant reduction in motorway accidents and improved levels of security.





N-5 National Highway in Pakistan

Dahua provided the total CCTV solution including cameras, NVRs, EVS and DSS video management software. In total, there were nearly 100 Dahua HD network cameras and speed domes from the Pro Camera Series installed.



Da-Li Expressway in China

Dahua provided the video surveillance system and ITS system. The system contains four parts, including the Toll Barriers, Tunnel, Road Side and TOC with more than 20 millions RMB invested.



Guizhou Duyun Xingfu Tunnel CCTV & Incident Detection System Dahua provided full-HD video surveillance equipment for real-time monitoring in the tunnel and traffic incident detection using the incident detection server.



Fujian Highway HD CCTV Unified Platform

Dahua actively cooperated with Fujian Expressway in the development of interconnected platform standards and successfully won the bid for the Fujian Highway HD CCTV Unified Platform Project.



ATID PRODUCTS



SD8A240WA-HNF

- 1/1.8" 2MP CMOS
- IR distance up to 500m
- Supports face recognition
- Supports Hi-PoE
- Smart Wiper, IP67
- Incident Detection

• Max. IR LEDs Length 150 m • 1000M Eth + 1000M SFP

• 2x 1/1.8" CMOS, 8MP+4MP

• 25/30 fps@4K (3840×2160) • 8 – 56 mm motorised lens

IPC-MFW8442-Z4-D87

- Micro SD memory, IP67
- Deep-learning-based Auto-Traffic Incident Detection

• 7/3 Alarm in/out, 2/1 audio in/out

SDT5X225-2F-WA-0600

- Dual-PTZ system
- 1/2.8" 2Megapixel CMOS
- Powerful 25x optical zoom
- Starlight technology
- Deep-learning-based auto tracking and perimeter protection
- Supports Hi-PoE
- H.265 Encoding
- IP67

PTZ85260-HNF-WA-FL

- 1/1.8" 2MP CMOS
- 60x optical zoom, EIS
- Laser distance up to 1000m
- Deep-learning-based perimeter protection
- IP67
- Deep-learning-based Auto-Traffic Incident Detection





- 40x optical zoom, EIS

• Deep-learning-based Auto-Traffic



TOLL LANE PRODUCTS



IPMECS-2201C-IR

- 2MP, 1920 (H)×1080 (V) @30fps
- 2.7-12mm len cover up to 1 lanes
- ANPR distance: Up to 12m
- Build-in IR LEDs light
- All-in-one integrated design (ANPR, vehicle classified, traffic data collection, speed enforcement, radar intergration)
- Capture speed up to 60km/h

DHI-ITC352-AU3F-IR8

- 3MP, 2048 (H)×1536 (V) @30fps
- 16-40mm len cover up to 1 lanes
- ANPR distance: 18 ~ 25 m
- Build-in IR LEDs light
- All-in-one integrated design (ANPR, vehicle classified, traffic data collection, speed enforcement, radar integration)
- Capture speed up to 200km/h
- Extended GPS (Optional)

ANPR PRODUCTS FOR ROADS



DHI-ITC952-AU3F-IR

- 12MP, 4096 (H)×2820 (V) @25fps
- 16-40mm lens covers up to 3 lanes
- ANPR distance: 18 ~ 25 m
- Build-in IR LED lights
- All-in-one integrated design (ANPR, vehicle classified, traffic data collection, speed enforcement, radar integration)
- Capture speed up to 200km/h
- Extended GPS (Optional)



DHI-ITC431-RW1F-IR

- 4MP, 2688 (H)×1520 (V) @25fps
- 10.5-42mm Len cover up to 2 lanes
- ANPR distance: 15 ~ 30 m
- Build-in IR LED lights
- All-in-one integrated design (ANPR, vehicle classified, traffic data collection, speed enforcement, radar integration)
- Capture speed up to 120km/h



ITARD-024MA-H

• IP67

- Amount of lanes: 1-4 lanes
- Speed detection range: (5-350) km/h
- Speed measuring accuracy: (-4-0) km/h
- Detection range: 2-100 m
- Working frequency: 24.150GHz±45MHz

EMERGENCY ALARM PRODUCTS



Emergency Alarm Tower

- HD CMOS camera
- Video and audio communication
- Remote monitor and broadcast
- Alarm integration
- Vandal-resistant: IP65, IK10



Emergency Box

- SIP intercom with 720P video
- Digital noise reduction and echo suppression
- Supports alarm by pressing call button
- Supports alarm input output
- IK10, IP65



Master Station

- SIP intercom master station
- 10" TFT capacitive touch screen, 1024×600
- Alarm integration
- Video intercom

KEY PRODUCTS



Traffic Incident Detector

- Adopts deep learning algorithms
- Traffic Incident Detection: Parking, pedestrian, congestion, wrong-way detection, obstacles, smoke, fire, speeding, driving too slow (for motor vehicles).
- Traffic flow detection: average speed, time occupancy rate, space occupancy rate, space headway, time headway and queue length



Converged Communication

- SIP server
- Supports 200 call channels, 200 recording channels, 5,000 VoIP channels
- Supports digital phones: 2 × E1
- Supports analogue phones: 8 × FXS, $16 \times FXO$
- Supports radio intercom

Video Management Platform

- CCTV, ATID, ASE, EAS, VMS etc, sub-system management
- Video aggregation, video docking, device docking
- Video live-view, Video playback, Alarm management

NETWORK PRODUCTS

• Providing multiple high availability

forwarding, non-stop upgrade, graceful

restart, and ring network protection.

• Supporting technologies required by

cloud data centers, for example, TRILL,

technologies such as non-stop

• Supports 40GE and 100GE

Core Switch S7606

EVB, and FCoE



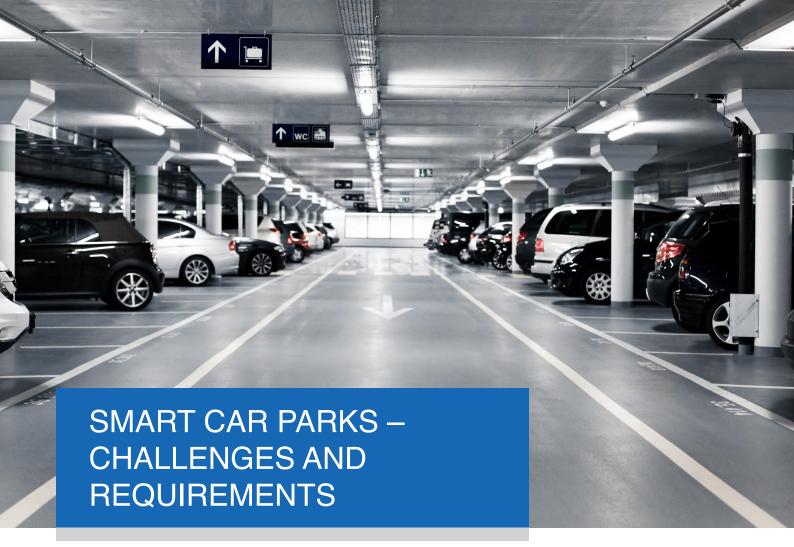
Aggregation Switch PFS5936

- 24 x 100/1000 Mbps Base-X, 8 x 10/100/1000 Mbps Base-T, 4 x 1/10 Gbps SFP+
- Supports 24 100/1000 Mbps and 4 1/10 Gbps fibre ports, 8 10/100/1000 Mbps Ethernet ports
- Supports VLAN and port aggregation
- Supports STP, RSTP, MSTP and ERPS
- Supports Web, CLI and SNMP management



Access Switch PFS4204

- Supports 2 × 10/100/1000 Mbps Base-T and 2 × 100/1000 Mbps Base-X
- Supports POE, VLAN and port aggregation
- Supports STP, RSTP, MSTP and ERPS
- Supports WEB, CLI and SNMP management



ELEMENTS



Airport Car Parks

Shopping Centre Car Parks



Private Car Parks

CHALLENGES



Difficulty Finding a Space

REQUIREMENTS

Improve Experience

Increase Revenue

Parking Revenue

Issues

Improve Safety

Accidents & Thefts

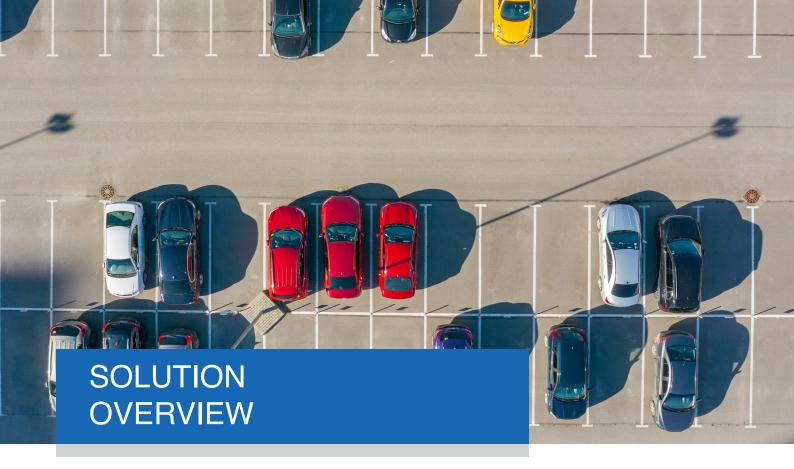
from Vehicles

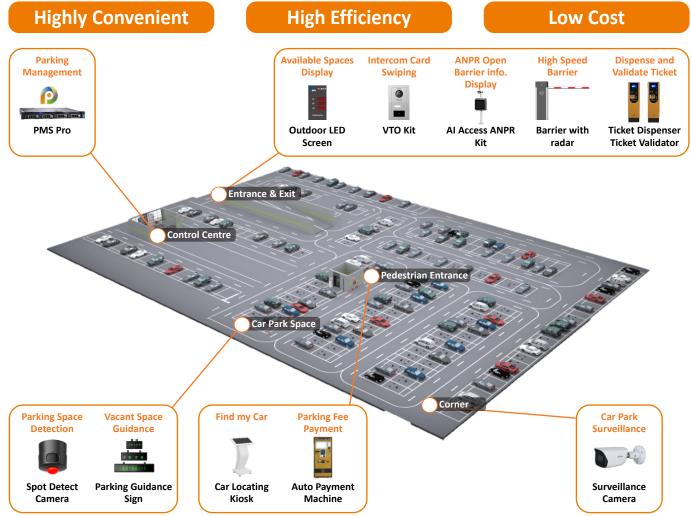
Save

Save Cost

SAVE

Costs too High





SOLUTION INTRODUCTION

ENTRANCE

Scenario



At Entrance

Solution



Outdoor LED Screen Available Spaces Displayed

Software works out the available number of spaces and displays this number on an external screen.

Entrance Process





High-speed Barrier with Radar Anti-fall feature enabled using radar.



AI Access ANPR Kit

ANPR & Flexible Access Control

Vehicle access is controlled by ANPR cameras, without the need for any tickets. Supports black and white list access authorisation.



Get Ticket



Entry Problems



Ticket Dispenser Self-service with Ticket Dispenser

Ticket dispensed by machine.

VTO Kit

Call to Administration Centre using VTO

For any entry problems or when visitors arrive, the driver can call the administration centre using the VTO.

Benefit

Save up to 75% on entry & exit times using ANPR cameras.

CAR PARKING



Benefit

Reduces time to park by 44% by using VPGS based on AI.

LOCATING CAR & EXIT



Solution

Parking Guidance Sign Vacant space guidance

Indoor screen shows the numbers of available parking spaces in every direction.



Spot Detection Cameras

Parking space indication

Spot cameras can automatically identify the current status of a parking space and provide the car number plate information to the management centre.



Spot Detection Cameras

Parking contravention warning

When a parking contravention occurs a warning/ alert will happen.

Real-time monitoring

Provides a real-time video stream to the administration centre for monitoring and evidential purposes.







52% of drivers forget where they have parked and FMC solves this problem perfectly.

Solution



Car Locating Kiosk Help to find your car quickly





Plate

Show the best route



Parking Fee Payment

Auto Payment

With an automatic payment machine, the driver can scan the ticket or input the vehicle number plate to easily pay.



AI Access ANPR Kit & Ticket Validator

ANPR & Self-service with ticket validator

With ANPR cameras there's no stopping as you exit.



PARKING MANAGEMENT

Solution

Unified PMS with Full E-map Control



Benefit

- 90% reduction in operational costs based on an unmanned operation one car park, one operator.
- 70% reduction in vehicle emissions due to less time needed to find vacant spaces.
- 80% reduction in overall costs.

BI ANALYSIS

Solution

Parking Rate			Average Parking Length Xates	Entering Series Record •	Raal-dree Statistics		Total Parking Len day/(Total numbe spaces*24 hours*	Length(Min) per ⁶ mber of parking purs*60mins)	
	83%		13	Min			99	5	
	Pres Parting Rate				£ 0	9 1	O 16.67%	• 1.57%	
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Parking Rate Statistics

- Occupied parking spaces
- Total parking spaces
- Rate

Average Parking Length

- Two statistical methods
- Total duration of parking
- Total parking spaces

Real-time Statistics

- Accumulated vehicle flow within 1 hour or 1 day
- Car park space turnover
- Car park occupancy rate

Entrance & Exit Information

Benefit

More ways to increase revenue using BI



Differentiated Pricing



VIP Services Provided

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Parking Coupons

SOLUTION BENEFITS

Increased Usage



- Entry without needing to stop
- Reduces access time from 16s to 4s
- Half of drivers benefit from locating their cars more easily

Much Safer



• Easy to find related video evidence after an incident

Increased Revenues



- Unoccupied rate decreases
- 44% of time saved parking and exiting car park
- Premium prices help operators increase revenue

Decreased Costs



- At least one member of staff is needed in every car park
- Most car parks are unmanned





ANPR Cameras: ITC215 Serials

- 2Megapixel
- WDR, Day/Night(ICR), 3DNR,BLC, HLC H.265 & H.265
- IP67
- ANPR
- Vehicle data structuring

Access ANPR kit: DH-IPMECS-2201C serials

- 2 Megapixel
- High vehicle capture rate: >= 99%
- Vehicle data structuring
- Embedded White List
- IP54

DHI-IPMECD-3011 Serials Barriers with Radar

- Anti-fall using connected radar, coil or IR sensor
- Supports remote control with a 50m distance
- Operating temperature: -40°C to +70°C
- Operating voltage: 220V AC±15%
- Protection grade: IP55



Indoor LED Sign: DHI-IPMPG1 serials

- DHI-IPMPGI-110AC: One way
- DHI-IPMPGI-120AC: Two way
- DHI-IPMPGI-130AC: Three way

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Parking detection: ITC214 serials

- 2MP
- Simultaneously detects up to 2 spaces
- Indicator supports at least 7 colours
- Supports WDR
- Supports PvE (Power via Ethernet)



- Parking detection: ITC314 serials
- 3 MP
- Dual-Lens design, simultaneously detects up to 6 spaces
- Indicator supports at least 7 colours
- Supports WDR
- Supports PvE (Power via Ethernet)



Outdoor Totem LED Sign

- DHI-IPMPGI-211AA (Single layer)
- DHI-IPMPGI-221AB (Double Layer)
- DHI-IPMPGI-231AB (Three Layer)
- DHI-IPMPGI-241AB (Four layer)
- DHI-IPMPGI-251AB (Five Layer)

PMS Pro

• DHI-IPMPGI-261AB (Six Layer)



Car locator | DHI-IPMPGS-221A

- Supports locating vehicle using number plate
- 1x 1000Mb Ethernet port and 2x USB ports
- 21.5-inch touchscreen



- Supports 200 online users
- Supports 10 Entrance/Exit ANPR channel inputs
- Devices supported: NVR, IPC, VTO, EVS, Access ANPR, Spot Detector, Car Locator, Barrier, LED Screen, IVS-T, Car Locator, etc.
- Platform SDK available for third-party device integration

SMART PARKING CASE STUDIES

AIRPORT IN SCANDINAVIA

In 2018 - 2019



One of the top ten airports in Europe and one of the biggest in Scandinavia. About 30 million passengers in 2018. A total of 6,500 indoor parking spaces.



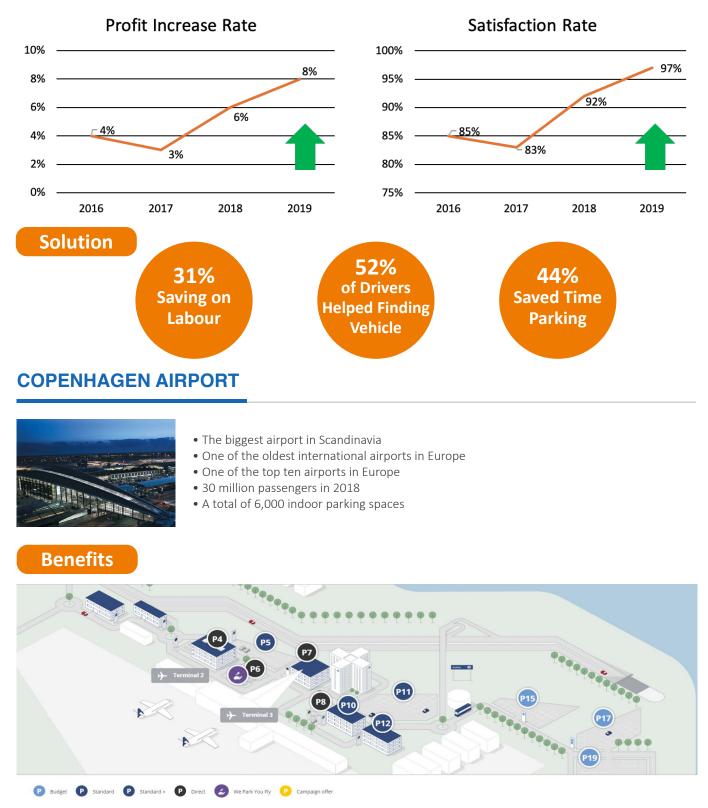
Parking Operation

• BI provides parking data for operational decisions.



Pedestrian EntrancesHelps drivers to locate their vehicles.

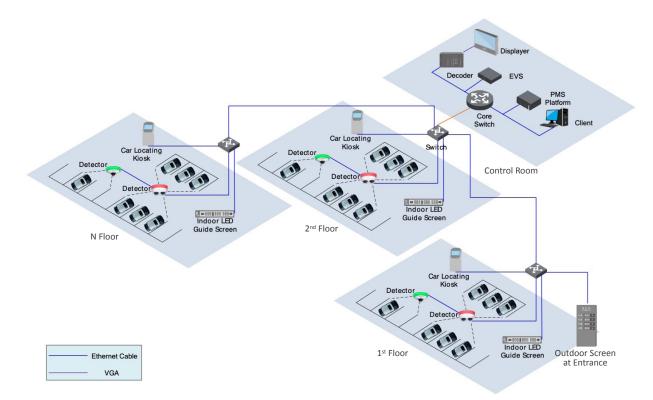
Dahua provided a parking solution for the airport for all of their car parking spaces between 2018 and 2019, which significantly improved the parking experience for users and increased parking revenues.



Improved Experience: 2 level navigation of VPGS and FMCS using ANPR to significantly improve the parking experience. **Increased Revenue:** The car park operator can use vehicle parking information based on BI to setup a premium price policy to create more revenue.

Enhanced Safety: Each detector can provide video surveillance services to customers, which will provide evidence in the event of an incident and will deter criminals.

Low cost: Unmanned operations using AI and ANPR reduces labour and operational costs by 70%.



High Accuracy

The camera has multiple built-in AI algorithms to provide a highly accurate way to detect whether a space is free or not. ANPR and being able to identify parking contraventions are also available using video analysis technology.

High Reliability

The platform supports hot standby and supports deployment in a virtualised environment. Low equipment failure rate and easy to maintain.

Total Solution

Provides a complete solution for customers, including VPGS, FMCS, Parking Management, BI analysis, video storage, control display and more.



Helps find empty parking spaces quickly using LED Signage and Spot Detection Camera, the camera supports ANPR and the detection of available parking spaces using the built-in AI algorithm.

Improves the driver experience, reduces vehicle emissions and reduces costs.



The FMC system uses ANPR technology to help drivers locate their vehicle and shows a simple route to follow in order to find it.



Enhanced user experience by helping drivers to find their cars more easily.



The cameras built-in AI algorithm also detects parking contraventions, for example straddling two bays.



Detects vehicles straddling two bays, unauthorised parking, improves parking space occupancy and reduces car park operator revenue losses.



SMART TRANSPORTATION SOLUTIONS

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Each detector can provide video surveillance for customers.

Provides evidence of an incident and



Analyse parking patterns: average parking times, vacancy rates, most popular parking floor, etc.



Gives operators more insight into the behaviour of people using the car park. Provides data to help with decisions regarding future parking spaces.



Sends vehicle ID and location data to payment system, which can set a premium and conditional pricing policy for different parking spaces.



The car park operator can use vehicle parking information to set up a premium price policy, creating more revenue.

OTHER CASES

deters criminal activity.









Denmark Billund Airport

Billund airport is the second largest airport in Denmark. The headquarters of LEGO is located in this city. The car park has around 1,217 parking spaces.

Dahua installed VPGS & FMCS for the car park operator. Dahua's solution helps users quickly find vacant parking spaces. Meanwhile, video monitoring and a reverse search function are also provided.

Czech Novy Smichov Shopping Centre

Novy Smichov is a large shopping centre owned by the French Klepierre group. It is one of the most prestigious shopping centres in Prague with a total of 2,240 parking spaces.

Dahua installed VPGS & FMCS for the customer. This has improved the parking experience for customers and has helped the shopping centre attract more customers.

Turkey Ispark Parking

Ispark is the biggest parking operator in Istanbul. The car park has over 1,000 parking spaces.

Dahua provided over 600 detection devices and a complete parking solution, helping to improve the experience for customers.

Netherland Jaarbeurs Utrecht Exhibition Centre

Jaarbeurs Exhibition Centre is one of the most important exhibition centres in The Netherlands. Previously visitors complained about not being able to find a vacant parking space, but with Dahua's parking solution the whole experience has been significantly improved.



ELEMENTS



Inside of the Bus



Driving Along a Street



Getting on or off a Bus

CHALLENGES



On-board Safety Threats

REQUIREMENTS

Operational Monitoring



High Bus Accident Rate

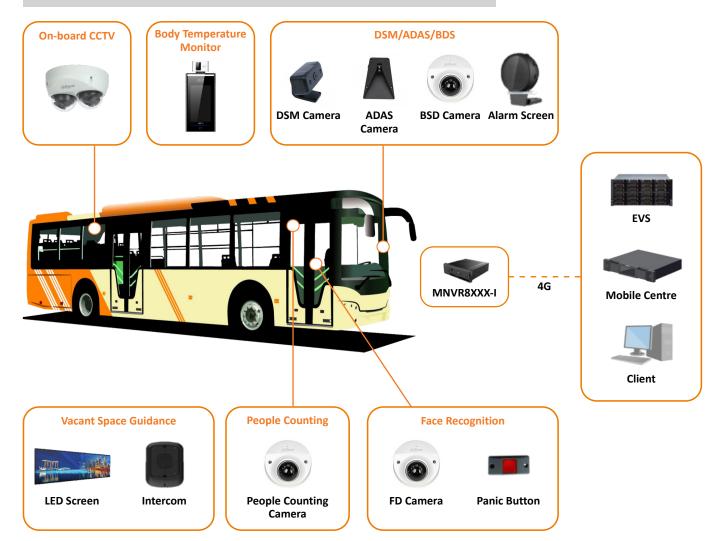


Complaints due to Bad Experiences

Vehicle Management

Incident Management







PASSENGER SAFETY

Scenarios



Epidemic Prevention



Theft on the Bus



Items left on the Bus

Benefits

- Automatic and non-contact method of measuring the body temperature of passengers, reducing the risk of cross-infection.
- Helps passengers to retrieve lost luggage by searching the HD video footage.

Solution



Body Temperature Monitoring Terminal Non-contact body-temp monitoring

The device can monitor the body temperature in a very efficient way and remind passenger to wear a mask. If someone's body temperature is abnormally high, the device generates an alarm to inform the driver to take preventative action.

MNVR

Data transfer and abnormal alarm

1. Obtain the passenger's body temperature and send to the platform to generate a statistic with face snapshot and body temperature.

2. The abnormal temperature alarm is immediately sent to the control centre.



Dual Lens Camera

No blind-spots

Dual lens camera and other internal cameras cover the entire bus to provide high-definition recordings without any blind-spots.

Panic Button

Emergency alarm upload

Panic button allows driver to send alarm to control room in real-time.

DRIVER SAFETY



Scenarios



Passenger Counting



Bus Lane-only Occupation



Passenger Guidance

Benefits

- Reduces passenger waiting time by optimising bus route.
- Reduces bus travel time as bus-only lane is free
- Improves journey experience with arrival information notifications.
- Improves revenue by displaying on-board advertisements.

Solution









People Counting Camera

Count passengers getting on a bus

Passengers getting on the bus at each station are recorded and his generates data which helps bus operators to optimise the bus schedule to reduce passenger waiting time. The camera limits the flow of people getting on the bus, further preventing the spread of the virus.

ANPR Camera

Capture the car occupying the bus lane

When a private vehicle drives in a bus lane the camera will capture and recognise the number plate of the car automatically, which helps keep lane free for buses.

LED Screen

Arrival information display

1. LED screen shows the bus stopping information and will display the next bus stop name when the bus approaches it. 2. Displays advertisement to increase revenue.

MNVR

Information transfer and linkage

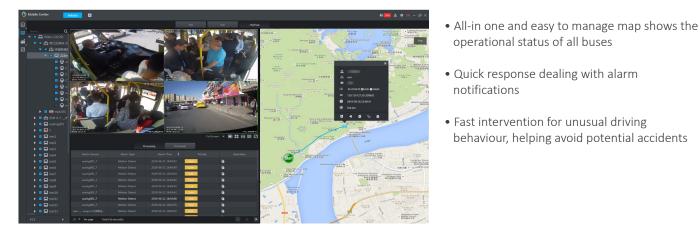
1. Transfers the people counting data to platform 2. Supports bus lane recognition and ANPR

3. Displays bus stop name and links this with bus stop coordinates.



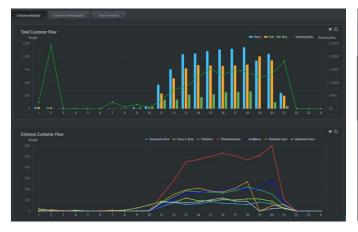
PLATFORM - FLEET MANAGEMENT

Solution



PLATFORM - DATA ANALYSIS

Solution



Passenger Counting Statistics

- Passenger flow at bus stops
- Passenger flow of different bus routes
- Passenger flow forecasting



Benefits

notifications

operational status of all buses

behaviour, helping avoid potential accidents

Safe Driving Statistics

- Safe driving ranking
- Driving violation statistics
- Intelligent alarm statistics

Benefits

- Optimise bus intervals based on passenger counting statistics to reduce passenger waiting time and increase revenue
- Regulate driver behaviour based on safe driving statistics to improve safety and reduce costs as a result of an accident/incident

32



Much Safer



- Supports body temperature monitoring and flow limits to protect passengers
- Supports alerts to monitor driver behaviour to reduce accident rates

Fewer Costs/Increased Revenue



- Reduce losses due to fewer accidents Revenue increases by better bus
- route optimisation and on-board advertisements

Better Experience



- Reduced journey times with no unauthorised vehicles in the bus lane
- Reduced waiting at peak times



Background

- The widest coverage of transportation in Turkey is by public bus
- Total of 1.5 billion ticketed passengers in 2019







Client











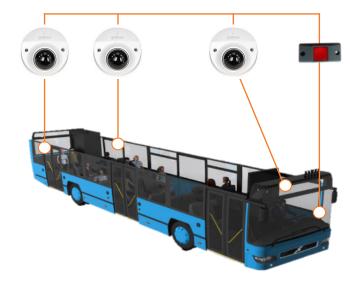
Camera 30,000



Panic Button 7,500

Platform 23





Benefits

In February 2017 Dahua, together with a local security installer in Istabul, delivered a project by installing HD cameras and mobile video recorders in each bus. With Dahua's mobile solution it helped the bus operator solve many problems.





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Driving Innovation to an AloT Future

* AIoT 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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