

Hikvision's Line Haul
Management Solution

Boost productivity and minimize
transportation risks

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HIKVISION



Headquarters
No.555 Qianmo Road, Binjiang District,
Hangzhou 310051, China
T. +86-571-8807-5998
overseasbusiness@hikvision.com

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Background

Logistics operators and drivers face numerous hassles for the goods they transport and the unpredictable transportation process. This makes transportation security paramount to their business.

For logistics operators, the primary concerns center on getting timely, accurate, and comprehensive status updates of their freight trucks. They are seeking answers to dispatch monitor and schedule the trucks precisely, to ensure the trucks arrive safely, to examine the containers in real-time.

Now, Hikvision figures out the real challenges and offers the optimal solution. Read on to find out more.

Common Challenges

Hikvision's Solutions



Absent of Data or Evidence of Accidents

- Difficult to determine accident causes and trace back the evidence of traffic accidents



Vehicle Tracking & Monitoring

- Support real-time GPS tracking and post-event video evidence trace back with HD video security



Inefficient Operations Management

- Difficult to optimize operation
- Isolated data cannot accurately reflect the state of operations



Performance & Operation Analysis

- Support holistic management to improve decision making efficiency with assorted reports from HikCentral Professional



Costly Operation with At-Risk Driving

- Carry more driving risks due to long working hours, physical burdens, harsh weather, etc.



Driver Protection & Assistance

- Achieve comprehensive protection with the intelligent driving assistance
 - Forward Collision Warning (FCW)
 - Lane Departure Warning (LDW)
 - Pedestrian Collision Warning (PCW)
 - Blind Spot Detection (BSD)
 - Headway Monitoring Warning (HMW)
 - Driver Behavior Analysis (DBA)
- Provide audio communication and alarm for in-time respond



High Operation Costs Due to Loss and Theft

- Fuel loss
- Goods loss due to spoilage, rejected loads, etc.



Property Management & Protection

- Establish extensive IOT applications with assorted sensors, including door status sensors, temperature sensors, fuel level sensor, and mobile recorders.

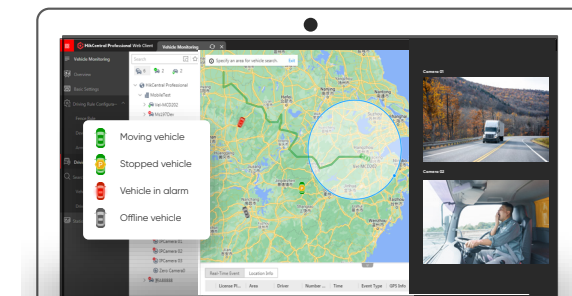
Video Security

Safe and stable transportation are always the priority for logistic operators. However, the driving process can be tough to manage, especially when determining the cause of an accident and exonerate innocent drivers. The lack of data or evidence can be a serious impediment. What can be done?

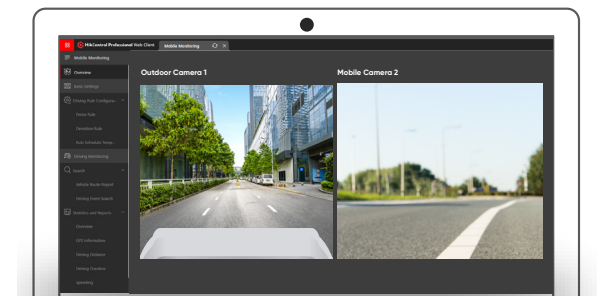
Hikvision's Line Haul Management Solution provides **real-time monitoring** to support drivers and continually **records video** to provide evidence of incidents. Operators can browse alarm records or timestamps.

A **360° panoramic camera with all-around views** supports safe driving. Drivers can improve awareness of surroundings and operate vehicles more safely with the all-around views when turning or moving in reverse. In emergencies, they can notify the platform using a convenient **alarm button** or by speaking directly through a **two-way intercom**. Additionally, driving alarms for events such as deviations and speeding go straight to the platform with real-time video and vehicle location to maintain safe operations.

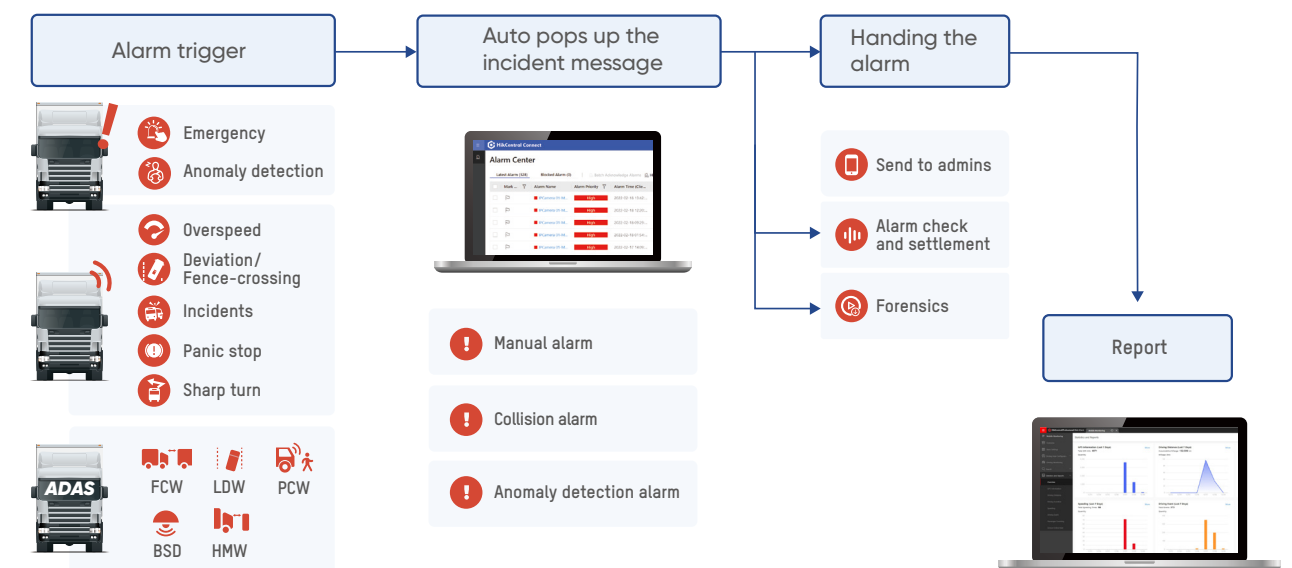
Real-time Tracking



HD Monitoring



Alarm Management

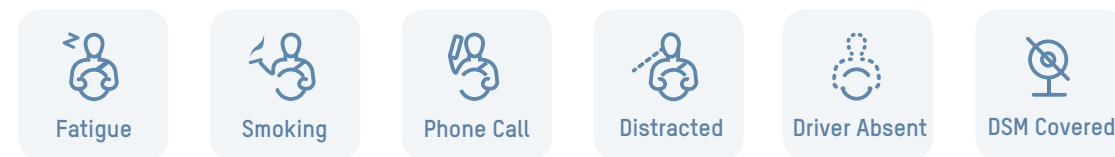


Solution Functions

Intelligent Driving Assistance

Difficulties like long hours, physical burdens, harsh weather, and more, make driving safely a challenge. And at-risk driving is very dangerous for merchandise, drivers, and general road safety. Our intelligent driving assistance system offers intelligent driver protection and assistance. It features **Forward Collision Warning** (FCW), **Lane Departure Warning** (LDW), **Pedestrian Collision Warning** (PCW), **Blind Spot Detection** (BSD), **Headway Monitoring Warning** (HMW) and **Driver Behavior Analysis** (DBA). Drivers can enjoy a safe driving with intelligent analysis server to help identify potential dangers and trigger audio warnings.

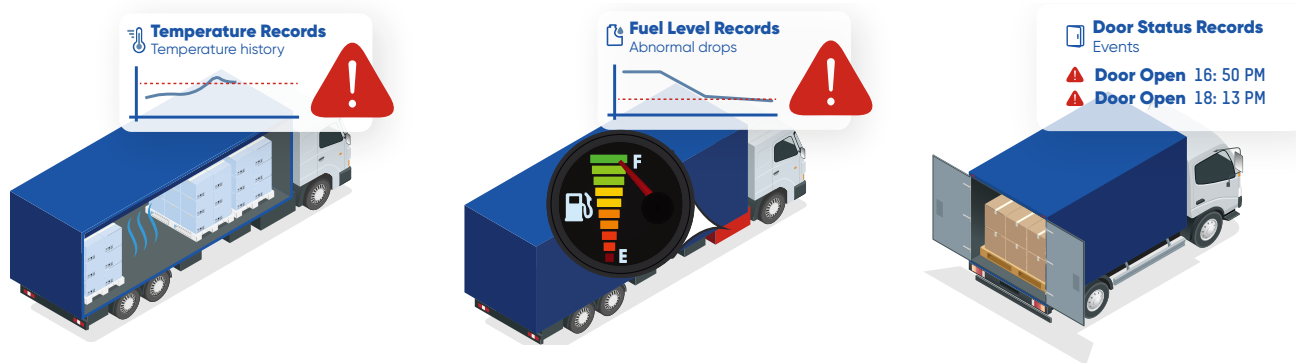
Moreover, drivers can navigate prudently with optimal awareness with the abnormal driving behavior detection from **DBA camera**.



Goods Management

Damage, vandalism, and theft of goods and merchandise are always the uncontrollable threats for operators, because they cannot examine those goods during the transportation process. Here, Hikvision's IoT Module can help to enhance goods management with extensive **IoT applications** and **assorted sensors**, consisting of **door status sensors**, **temperature sensors**, **fuel level sensor**, and **mobile recorders**.

This advanced module provides temperature and fuel consumption monitoring and integrity assurance of merchandise. An operator can inspect the rear door status throughout the journey to make sure that all goods are intact during transit. For cold chain services, temperature sensors can help shipping professionals check container temperatures to maintain product quality, with temperature history and real-time alarms for abnormalities. Also, the IOT module can identify a sudden drop in fuel level, and analyze usage for maximum efficiency.



* Door Status Sensors and Temperature Sensors support third-party sensors and are ready for project deployment. Door Status Sensor needs no integration. For Temperature Sensor, DVR customization is needed.

Command Center – HikCentral Professional

Operators have difficulty evaluating their drivers' performance, because isolated data cannot accurately reflect the real state of operations. However, HikCentral Professional can centralize management with helpful functions like video monitoring, recording, playing back footage, real-time positioning, data & statistics, and more. A variety of reports present operators with great visibility across every aspect, helping operators handle emergencies instantly and make smarter decision.



*Note: Units of measure vary across regions. Hikvision applies the appropriate units in any given application/installation.

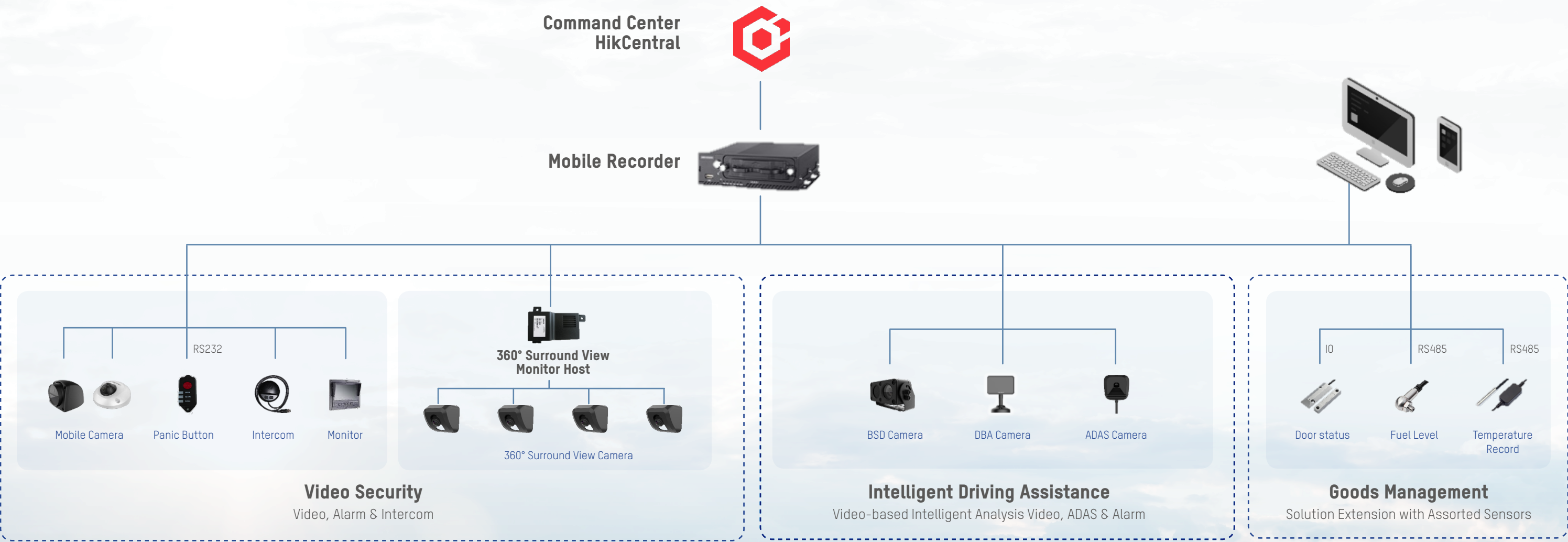
HikCentral Professional



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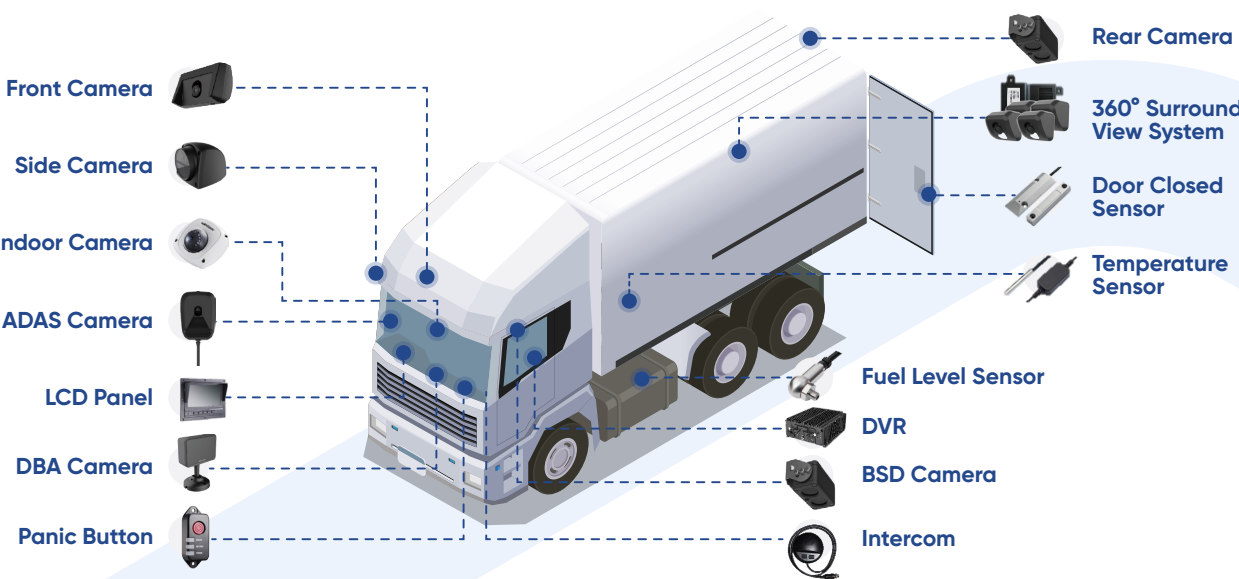
Solution Structure



Common Applications

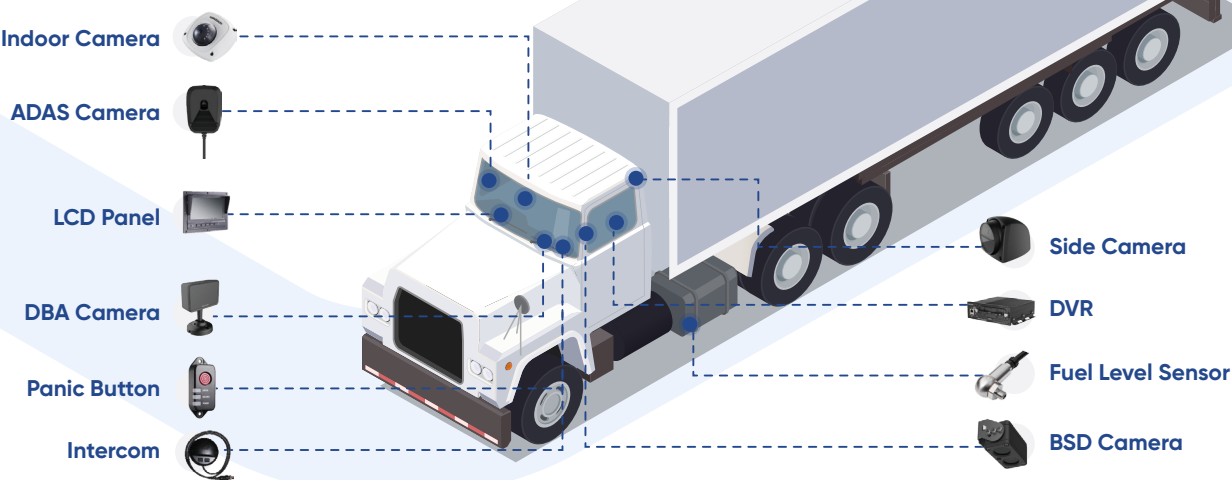
1 Box trucks or lorries and single-chassis vehicles

For large-scale trucks, they carry more risks due to the great inertia and more blind zones. Hikvision provides comprehensive solution to guarantee the safe transportation, including video security, intelligent driving assistance, and goods management, etc.

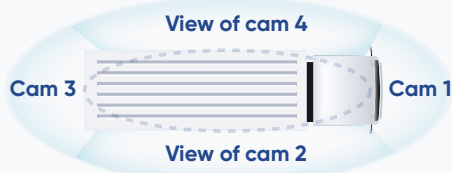
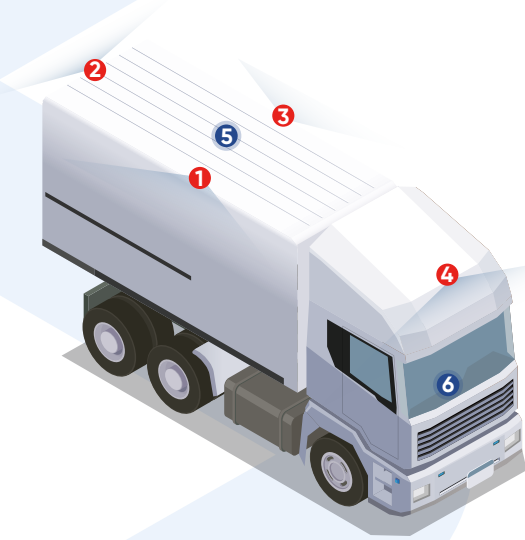


2 Big rigs and various trucks with trailers

For big rigs without power supply in container, the solution can focus on the video security and intelligent driving assistance part to assure the safety of driving and transportation.

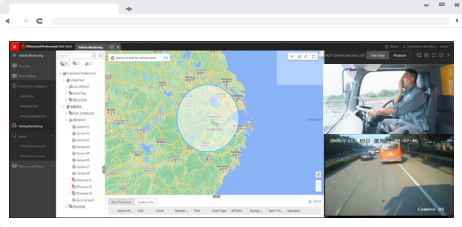


360° Surround View System

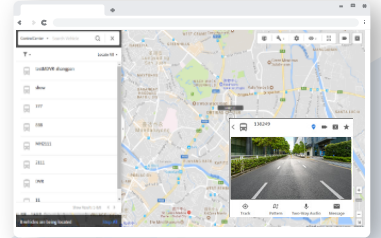


- ①~④ 360° Surround View Camera
- ⑤ 360° Surround View Host
- ⑥ LCD Panel

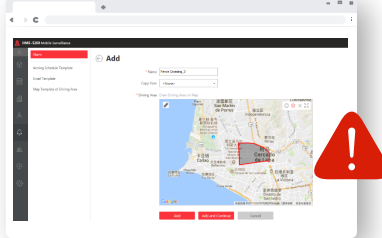
Video Recording & Retrieval



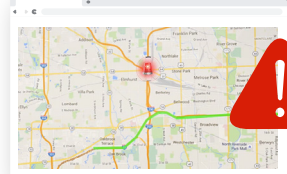
Real-time Monitoring



Fence Crossing Alarm



Route & Speed Control



Product Features

Mobile DVRs



Reliable Supply, Modular Design

- Power supply supports 8-36 VDC
- Electromagnetic immunity design conforms to the automobile ISO-7637 electromagnetic standard
- Suitable for all types of vehicles



Anti-Seismic Design

- Military-grade shockproof hard drives installed
- Patented metal air bag damping technology



Uninterrupted Power Design

- First to be utilized in the industry
- Ensures video is written to the hard drive at the moment of power failure



Perfect Video Recording

- Supports a variety of storage media
- Supports SD card redundancy recording when if hard drive is damaged
- Supports fire box storage / redundancy recording



GPS Filtering

- Equipped with high-sensitivity antenna and GPS filtering algorithms, GPS Filtering resolves problems with fixed-point drift, velocity drift, and other abnormal data. Moreover, regarding data transmission, information will be maintained when offline or Internet disconnection; transmission will be restored when back online.



Aviation Gyroscope

- Built-in G-sensor & gyroscope sensor provide emergency response to collision and rollover accidents to restrict or eliminate dangerous driving habits such as rapid acceleration, deceleration or braking, and turning too sharply



Dual System Backup

- Dual system firmware is built in the vehicle host to ensure normal operation of the device after restarting

Mobile Camera



HD Video Security

- All-round cameras with high definition, including 720p and 1080p, can provide better recording, tracking, and deterrence



IP68 Waterproof Rating

- Water pressure: 400 KPa
- Water flow: 100L/min
- Depth: 2.5 - 4 m
- Test duration: >3 mins

*Only outdoor analog camera achieves IP68.

Product Showcase



4-Channel MVR

- 4-ch 1080p @ 25 fps analog cameras + 4-ch 1080p IPC (via PoE switch)
- 2 x HDD / SSD (2 TB) + 2 x SD (256 GB)
- Pluggable 3G/4G module
- Built-in Wi-Fi module, G-sensor and GPS module
- Standby Consumption: ≤ 0.5 W
- Full load Consumption: ≤ 45 W
- Wide-range Power Input (+9 VDC to +32 VDC)
- CE / FCC / EN50155 / EN45545 / EN50121 / E-mark, CB / BIS / RCM / RoHS / ISO 7637-2 / MIL-STD-810G
- Front collision warning (FCW)
- Lane departure warning (LDW)
- Pedestrian collision warning (PCW)
- Blind Spot Detection (BSD)
- DMS: Driving Monitoring System, supports fatigued / distracted / smoking / phone call detections



DS-MP1431-646

Fireproof Box

- Video mirror backup for data protection
- Fire resistance time:15 min@1100 °C, 20 min@950 °C, 120 min@260 °C
- Waterproof: 24 hour@100 m (10 ATM)
- High Speed Impact:100 Gs@50 ms
- Static Squeeze:100 KN@5 min
- Consumption ≤ 0.5W
- 122 x 88 x 57 mm (4.8 x 3.5 x 2.2 inch)
- Approx.0.97 kg (2.1 lb)



8-Channel MVR

- 8-ch 1080p @ 25 fps analog cameras + 8-ch 1080p IPC (via PoE switch)
- 2 x HDD / SSD (2 TB) + 2 x SD (256 GB)
- Pluggable 3G/4G/5G module
- Built-in Wi-Fi module, G-sensor and GPS module
- Standby Consumption: ≤ 0.5 W
- Full load Consumption: ≤ 45 W
- Wide-range Power Input (+9 VDC to +32 VDC)
- CE / EN50155 / EN45545 / EN50121 / E-mark / CB / BIS / RCM / RoHS / ISO 7637-2 / MIL-STD-810G
- Front collision warning (FCW)
- Lane departure warning (LDW)
- Pedestrian collision warning (PCW)
- Blind Spot Detection (BSD)
- DMS: Driving Monitoring System, supports fatigued / distracted / smoking / phone call detections



AE-VC211T-IRS

- 2 MP Progressive CMOS sensor
- Fixed focal lens, 2.8, 3.6, 6 mm optional
- Up to 1080p resolution
- 0.1 Lux @ (F1.2, AGC ON) , 0 Lux with IR
- WDR: 120 dB
- SNR: 42 dB
- Built-in microphone
- Consumption: ≤ 4 W
- Metal Case



AE-VC224T-IT

- 2 MP Progressive Scan CMOS
- Fixed focal lens, 2.1 / 2.8 / 3.6 mm optional
- Up to 1080p resolution
- 0.1 Lux @ (F1.2, AGC ON) , 0 Lux with IR
- SNR: 42 dB
- Operating temperature: -40 - 75° C
- Ingress protection: IP68
- Consumption: ≤ 2.5 W
- Metal Case



AE-VC222T-ITS

- 2 MP Progressive Scan CMOS
- Up to 1080p resolution
- Fixed focal lens, 2.1, 2.8, 3.6 mm optional
- 0.1 Lux @ (F1.2, AGC ON) , 0 Lux with IR
- SNR: 42 dB
- Consumption: ≤ 2.2 W



AE-VC153T-IT
AE-VC253T-IT

Works with AI DVR to achieve BSD

- 720p / 1080p @ 30 fps
- Metal Case
- 0.1 Lux @ (F1.2, AGC ON)
- Operating temperature: -40 - 75° C
- Ingress protection: IP68
- Adjustment Angle: Tilt: 0°to 90°
- Supports auto day & night switch
- Supports right & left monitor mode
- SNR: 62 dB



AE-VC163T-ITS
AE-VC263T-ITS

- Front and Rear Dual-Channel Vehicle-Mounted Camera
- 720p / 1080p @ 30 fps
- Min. illumination: 0.1 Lux @ (F1.2, AGC ON) , 0 Lux with IR
- ICR for rear camera and full color for front camera
- Built-in microphone
- Rear Camera: 2.1 mm; Field of View: H: 125°, V: 80°, Diag: 148°
- Front Camera: 2.1 mm; Field of View: H: 125°, V: 66°, Diag: 154°
- Adjustment Angle: Tilt: 0 - 360°
- CE / FCC / E-mark



DS-MP1301
DS-MP1302 (Touch Screen)

- 7-inch TFT-LCD, 800 x 480 RGB
- 130° visual angle
- Manual switch or Auto switch
- 1-ch connect to the DVR, 1-ch connect to the rear camera
- 2-ch alarm input
- IP 54



DS-1350HM

- 1-ch build-in speaker and 1-ch build-in Mic
- 12 VDC / 30 mA
- 85 x 85 x 26 mm
- Operating Temperature: -10 to 55° C
- Wiring length: 6,000 mm



AE-VC159T-S
AE-VC259T-S

- Front Vehicle-Mounted Camera
- 720p / 1080p @ 30 fps
- Min. illumination: 0.01 Lux @ (F1.2, AGC ON)
- Supports full color
- Wide-angle lens, 2.1 mm, Field of View: H: 127°, V: 73°
- SNR: 42 dB
- Consumption: ≤ 2.2 W
- CE / FCC / E-mark



AE-VA136T

- Front Vehicle-Mounted Camera
- 720p @ 30 fps
- Min. illumination: 0.01 Lux @ (F1.2, AGC ON)
- Supports full color
- Wide-angle lens, 2.1 mm, H FOV 127°, V FOV 73°
- SNR: 42 dB
- Consumption: ≤ 1 W
- CE / FCC / E-mark



DS-1530HMI

- Built-in Gyroscope and Sensor
- 5 VDC / 30 mA
- 80 x 30 x 19 mm
- Operating Temperature: -20 to 60° C
- 100 ms sampling interval

Hikvision Australia
T +61-2-8599-4233
salesau@hikvision.com

Hikvision Azerbaijan
T +994 50 369 81 57
Azerbaijan.CATC@hikvision.com

Hikvision Brazil
T +55-11-3318-0050
Latam.support@hikvision.com

Hikvision Canada
T +1-866-200-6690
sales.canada@hikvision.com

Hikvision Colombia
sales.colombia@hikvision.com

Hikvision Czech
T +420 29 6182640
info.cz@hikvision.com

Hikvision Egypt
T +20223066117
sales.eg@hikvision.com

Hikvision Europe
T +31 23 5542770
sales.eu@hikvision.com

Hikvision France
T +33(0)1 85 330 450
info.fr@hikvision.com

Hikvision Germany
sales.dach@hikvision.com

Hikvision Hong Kong , China
sales.hk@hikvision.com

Hikvision Hungary KFT
info.hu@hikvision.com

Hikvision India
T +91-22-6855 9944
sales@pramahikvision.com

Hikvision Indonesia
T +6221 2933 9366
Sales.Indonesia@hikvision.com

Hikvision Israel
T +972 79 5555590
sales.israel@hikvision.com

Hikvision Italy
T +39 0438 6902
info.it@hikvision.com

Hikvision Kazakhstan
T +7 (727) 291-75-88
support@hikvision.kz

Hikvision Kenya
wangchengbin@hikvision.com

Hikvision Korea
T +82-1661-8138
sales.korea@hikvision.com

Hikvision Malaysia
T +60327224000
sales.my@hikvision.com

Hikvision Mexico
T +52 55 2624 0110
sales.mexico@hikvision.com

Hikvision New Zealand
T 09 217 3127
salesnz@hikvision.com

Hikvision New Panama
Sales.centralamerica
@hikvision.com

Hikvision Pakistan
T +92-2135147526
support.pk@hikvision.com

Hikvision Philippines
support.ph@hikvision.com

Hikvision Poland
T +48 22 460 01 50
info.pl@hikvision.com

Hikvision Russia
T +7-495-669-67-99
saleru@hikvision.com

Hikvision Romania
marketing.ro@hikvision.com

Hikvision Singapore
T +65 6684 4718
sg@hikvision.com

Hikvision South Africa
T +27 877018113
sale.africa@hikvision.com

Hikvision Spain
T +34 91 737 16 55
info.es@hikvision.com

Hikvision Tashkent
T +99-87-1238-9438
uzb@hikvision.ru

Hikvision Thailand
sales.thailand@hikvision.com

Hikvision Turkey
T +90 216 521 70 70
support.tr@hikvision.com

Hikvision UAE
T +971-4-4432090
salesme@hikvision.com

Hikvision UK & Ireland
T +44(0)1628 902 140
info.uk@hikvision.com

Hikvision Uzbekistan
T +998-71-233-55-50
uzbekistan@hikvision.com

Hikvision USA
T +1-909-895-0400
sales.usa@hikvision.com

Hikvision Vietnam
T +84 24 7300 7586
sale.vn@hikvision.com



AE-VC154T-IT

Works with AI DVR to achieve DBA

- 6 mm lens
- 720p @ 30 fps
- Min. illumination: 0.1 Lux @ (F1.2, AGC ON) , 0 Lux with IR
- Tilt: 0 - 50°, Pan: 0 - 5°, Rotate: 0 - 360°
- 2 x 940 nm IR
- 3 m IR distance
- SNR: 42 dB
- Consumption: ≤ 2.5 W



AE-VC155T

Works with AI DVR to achieve ADAS

- Windshield camera
- 6 mm lens
- 720p @ 30 fps
- Min. illumination: 0.1 Lux @ (F1.2, AGC ON)
- Tilt: 0 - 65°
- WDR: 120 dB
- SNR: 42 dB
- Consumption: ≤ 2 W