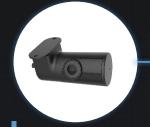


Taxi Onboard Application

IPSC

TAXI SECURITY-OVERVIEW





Interior Mobile Analog Camera

Onboard video monitoring with the purpose to the passenger belongings loss monitoring.



Interior Mobile Analog Camera

Onboard video monitoring & ADAS reminder.

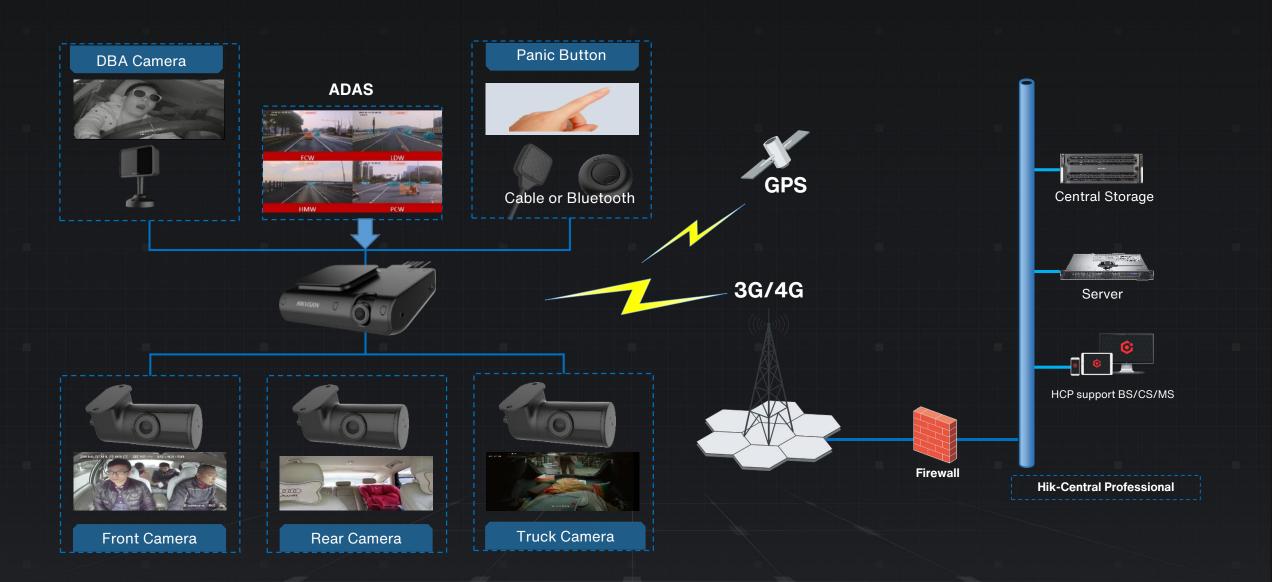


Interior Mobile Analog Camera

The Anomaly Detection Camera detects dangerous driving behaviors, including tired, yawning, squinting, smoking and camera covered.

TAXI SECURITY-SOLUTION STRUCTURE





TAXI SECURITY-SOLUTION FOCUS





Passenger Luggage Record

It is difficult to trace the specific problem when the passenger's luggage is picked up by mistake or taken away by other passengers when a complaint occurs.



Alarming

When the driver or the passenger feels unset or be held as a hostage. Manually push alarm button to tag the video clip as incident and alert the operator for remotely assistant.



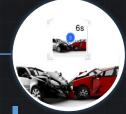
Post-investigation

All around the video surveillance shall to keep record to provide the evidence of incident such as lost luggage.



Driver Compliance Supervision

We need a method to awaken the driver from micro sleep to drive prudently with safety awareness.



Liability Identification

A single accident may lead to a long term of lawsuits due to lack of evidence. To record and protect the video of the accident is financially and legally crucial.

Speed Monitoring

Unusual behaviors of a vehicle such as speeding are usually warning signs that are hard to be spotted remotely in the first place

HIKVISION

TAXI SECURITY-VIDEO SECURITY



Towards outside: The front vehicle plate number can be seen clearly up to 13 meters distance. Meanwhile, G4 do the ADAS.



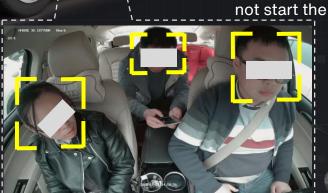
The built-in six-axis gyro sensor starts emergency recording when the vehicle crashes or vibrates violently. It supports emergency video locking with the purpose to prevent to be covered by circle, making it a key assistant for post-investigation.



Open the trunk.

The Video shall to switch from black to color automatically.

Turn off the trunk. The Video shall to switch from color to black automatically.



Towards inside: Passenger Counting Safety Monitoring, Lost and found. Moreover. It shall to avoid the driver do not start the taxi meter and conceal the income.

The built-in GPS module shall to provide the real-time trajectory for the map overview.



TAXI SECURITY- OPERATION DASHBOARD

G4 is build-in the GPS module and provide the trajectory along with the video on the real-time for the remotely management.



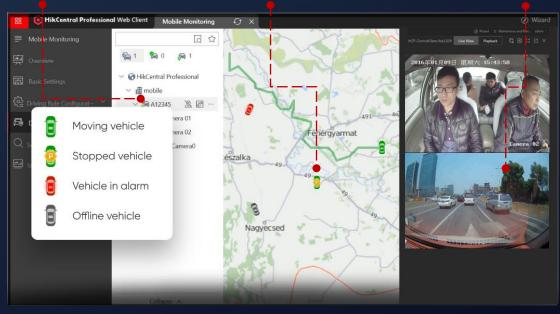




- Centralized management: Through the unified control panel, various Taxies can be centrally managed on the map.
- Remotely check: The security guys can remotely check and track every vehicle information: location, live video, alarming record etc.

HikCentral Professional Control Panel

- Easy to select vehicle from the list
- Quickly locate vehicles on GIS map.
- Remotely check vehicle inside/outside status via live view.



TAXI SECURITY-DATA INTEGRITY

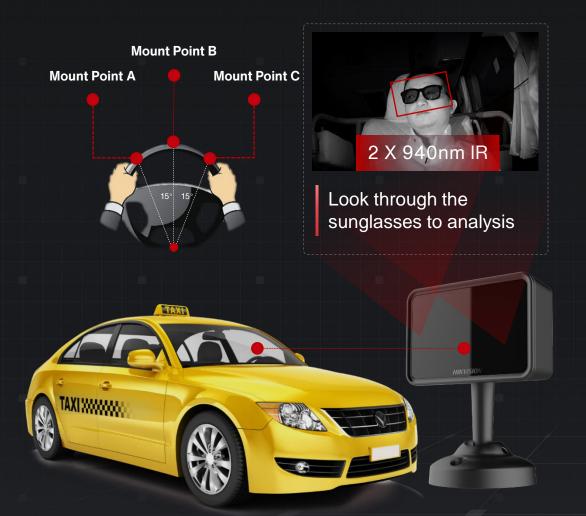






TAXI SECURITY- DRIVER STATUS MONITORING





Real-time detect and remind the taxi driver

- · Auto detects dangerous driving conditions.
- Auto warns the taxi driver in real-time voice.



TAXI SECURITY- ALARMING MONITORING



 Within the safe speed protection: Once vehicle running faster than the limited speed, the MVR shall to send the alarm information to the HCP to remind the security guys to handing.



- Forbidden area protection: Once vehicle intruders the preset area, an alarm will be triggered immediately.
- Permitted area monitoring: Once vehicle drives out of the permitted area, an alarm will be triggered immediately.



TAXI SECURITY- ALARM PANEL OPERATION



Precaution Alarm





Alarm Detection \(\rightarrow \rightarrow



Archiving



- Eliminate potential risks.
- Real-time warning for safe driving.
- Ask for the help from the center.



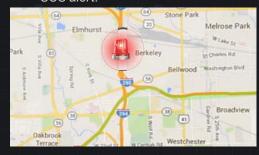
Related functions

DBA Alarm

ADAS Alarm



- Auto & intelligent detection on various dangerous.
- SOS alert.



Related functions

Vehicle Status Alarm

DBA Alarm

ADAS Alarm

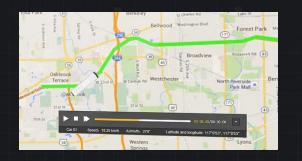
Fence Crossing

Deviation Alarm

Panic Button



Quick & accurate alarm response.



Related functions





Alarm notification

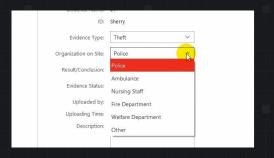
Remotely check live view



Two-way audio



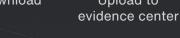
- Classify fragmented evidence.
- Evaluate drivers performance.



Related functions



Remotely Download

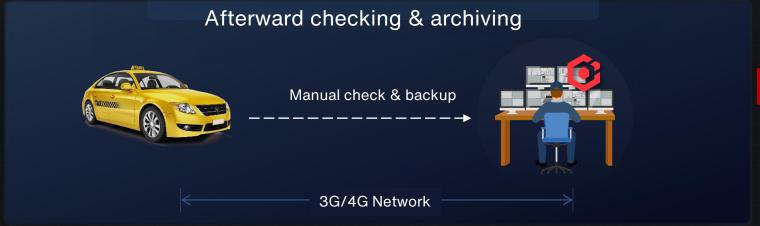


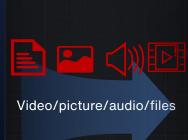
Alarm statistical report

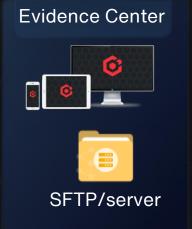


TAXI SECURITY- EVIDENCE CLLECTION











TAXI SECURITY- CORE DEVICES

| Main technical specifications | AE-DI5042-G4 (Lite) (GPS+4G) | AE-DI5042-G4 (/AI) (GPS+4G) | |
|-------------------------------|--|--|--|
| Figures | HIKVISION O | HIKVISION O | |
| image | 4 MP Sensor, up to 1440P resolution | | |
| video | 1440P (customization) /1080P/720P | | |
| audio | MIC voice input、speaker output | | |
| Satellite positioning | GPS、GLONASS | | |
| wireless communications | 4G | | |
| Wi-Fi & Bluetooth | Wi-Fi smart phone connectivity、Hotspot and Bluetooth | | |
| Video storage | Double TF card recording, 256GB max each, Loop recording, seamless connection without seconds missing | | |
| Gyro sensor | The built-in gyroscope sensor can start emergency recording when the vehicle is in a collision or severe vibration. Support emergency recording backup lock, delayed shutdown when suffering abnormal power-off. | | |
| Emergency alarm | Support 2 wired emergency alarms, 1 Bluetooth wireless emergency alarm (optional), capture alarm pictures and upload to the platform | | |
| Face Recognition comparison | Dynamic face verification / Long driving warning | | |
| Driving behavior analysis | Not supported | Supports the identification, analysis and voice prompts of the driver's drowsy driving, answering and making phones, smoking, distracted while driving, blocking the camera, and uploading alarm information to the platform | |

TAXI SECURITY- CORE DEVICES





- All-round monitoring with the extended three channel camera to provide the most comprehensive evidence. Meanwhile. The remaining one channel do the driver status monitoring for driving safe.
- Easy and convenient to install on the glass via the electrostatic sticker
- Alarm is manual or automatic trigger and uploaded to the center could do two-way audio communication
- Super-capacitor guarantees the most complete footage when switch off in case of sudden system power down
- ADAS: Forward Collision Warning(FCW), Lane Departure Warning(LDW), Headway Monitoring Warning(HMW), Pedestrian Collision Warning(PCW)
- DBA: Fatigue driving, distracted, smoking, seatbelt use, driver absent, phone use, lens be covered

Fatigue Driving Distracted Smoking Seatbelt Use Driver Absent Phone Use Lens be Covered

HIKVISION

TAXI SECURITY- CORE DEVICES



- AE-DI5042-G4
- ☐ The build-in lens with the resolution up to 1440P for picture taking and 1080P for recording
- FOV:153°(D),127°(H)
- Extend to 4-ch TVI camera
- Built-in Mic & speaker
- Build-in Wi-Fi, Bluetooth, 4G Module
- Build-in 6axis G-sensor
- □ Dual TF Card(up to 128GB for each)
- Consumption: ≤ 10 W
- □ CE, FCC, RoHS, WEEE



AE-VC143T-ITS

- Progressive Scan CMOS
- □ 720P@25fps
- 0.1Lux@(F1.2,AGCON),0LuxwithIR
- 2.1 mm, horizontal: 125°, vertical: 80°, diagonal: 148°
- □ 5m IR
- Built-in Mic
- Supports passenger people counting (working with AE-DI5042-G4)
- Consumption: ≤ 2.5 W
- ☐ CE,FCC, E-Mark



AE-VC154T-IT

- □ 6 mm lens
- □ 720p @30fps
- ☐ Min. illumination: 0.1 Lux@(F1.2,AGC ON),0 Lux with IR
- □ Supports DBA (working with AE-DI5042-G4)
- Horizontal: 52°; Vertical: 28°; Diagonal: 60°
- □ 2*940nm IR
- 3 m IR distance
- □ SNR: 42dB
- Consumption: ≤ 2.5W
- Plastic Case
- ☐ CE,FCC, E-Mark

TAXI SECURITY- CORE DEVICES



Dash Camera

DBA camera

Extend Camera

Panic Button



AE-DI5042-G4



AE-VC154T-IT



AE-VC143T-ITS





HikCentral Professional hardware performance

| | | Entry level | Middle level | High level | |
|---------------|----------------------|-----------------------|-----------------------------------|---|--|
| CPU | | | Intel® Xeon® E-2124 @ 3.30 GHz | Intel _® Xeon _® Silver 4110 @ 2.10 GHz | |
| RAM | | 8 GB | 16 GB | 16 GB | |
| Number of Dev | vices | 300 | 500 | 1000 | |
| Speed of Hand | dling Driving Events | 300 events per second | 500 events per second | 1000 events per second | |
| GPS Data | | 6 Month | | | |
| Storage | Statistics Data | 3 Years | | | |
| | Driving Events | 3 Years | | | |

HikCentral Professional license quotation

10 Devices



>10 Devices:

| Name | Code | Description |
|-----------------------|-----------|---------------------|
| HikCentral-P-MS-Base | 401000428 | Base package |
| HikCentral-P-MS-1Unit | 401000429 | 1 device management |

