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in Hikvision





HikvisionHQ







Hikvision_Global Hikvision Corporate Channel



Video Security Solutions for Buses

Public buses are key elements in city life around the world. They reduce the number of private automobiles on the road and thereby improve transportation environments and reduce traffic pressures – not to mention providing essential transportation for millions of people every day, on every continent.

Security for system operators, passengers and drivers, however, must overcome a number of challenges to be effective, such as lack of evidence for traffic accidents, theft and other crimes on the bus, fatigued driving, fare dodging, and more.

Nevertheless most of buses cannot provide high definition video monitoring and limited field of view to maintain a safe and effective operation. Lack of intelligent management, bus scheduling and congestion cannot be arranged properly.

But today, Hikvision offers the optimal video security solution for all kinds of bus systems and the people involved. Read on to find out more.



Solution Structure

Video Security



The Video Security System provides high-definition indoor and outdoor monitoring for driving support and keeps records to provide evidence of incidents. **360° panoramic** camera with all round view offers a fundamental basis for safer driving. Moreover,

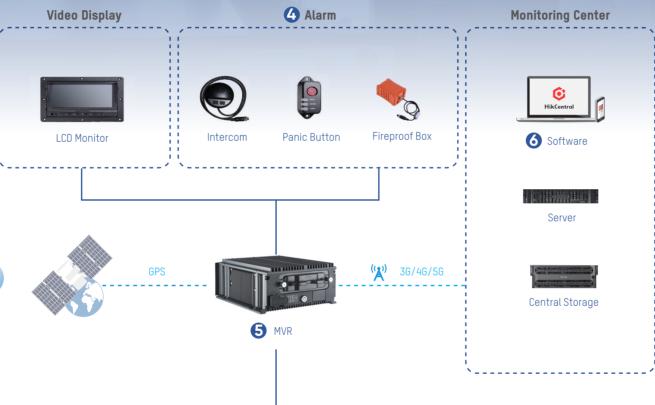
offer practical drive assistance to reinforce the driving safety.



People Counting

The People Counting Camera can intelligently count the number of passengers getting on and off, and distinguish children from adults by achieving accurate height measurements and head-toshoulder ratios. After collecting passenger flow information, the data will be analyzed for better bus scheduling, fare checking, and further operational analysis.





Anomaly Detection



The Anomaly Detection Camera can intelligently detect dangerous driving behaviors, including tired, yawning, squinting, and other unsafe driving events. By doing so, drivers can navigate prudently with prudent awareness.

















Alarm Management

The Alarm System includes emergency, fence-crossing, safe driving, and deviation alarms. For emergencies, the driver can notify the platform through the alarm button or speak through a two-way intercom. For driving alarms, like deviation and fencecrossing, the platform can receive the real-time video and bus location to maintain the safe operation. Besides, anomaly detection will also provide prompt alarms for safe driving.









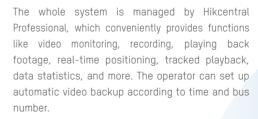


Transmission Network

The MVR communicates with the platform using a 3G/4G communication module. Also, the communication module now supports 5G connectivity, which ensures a faster and more stable connection. Along with that, the build-in GPS module is mounted on the vehicle for real-time positioning and video display.

Supports: 2.4G & 5GWi-Fi FDD LTE: B1/B2/B3/B4/B5/B7/B8/B20/B28, TDD LTE: B40

Management Platform









This Bus Security Solution provides effective video monitoring and vehicle control. Video and audio data are collected by on-board cameras and audio perception. Audio and video data can be stored, backed up, and uploaded to the surveillance platform for viewing and playback. The operator can browse real-time video with the user-friendly mobile phone app. The GPS function pops up with real-time positioning, and route and fence-crossing detections, while facilitating vehicle control.



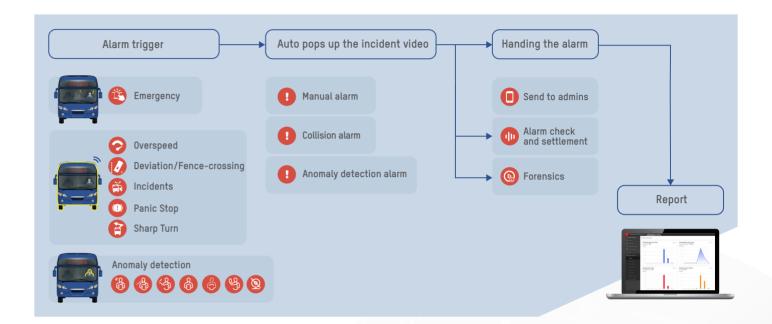




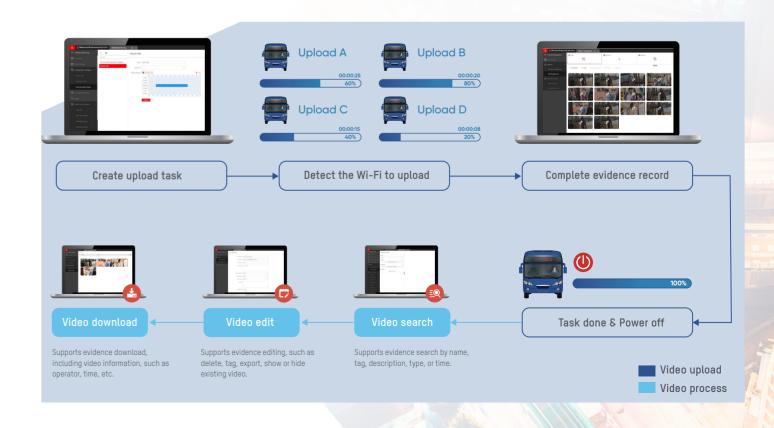
* GPS Information Report, Driving Distance Report, Driving Duration Report, Speeding Report, Driving Event Report (including DBA), Device Online Rate Report, etc.



Alarm Management



Intelligent Video Management



Product Features

Mobile NVR/DVR



Reliable Power Supply Design

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



No Break 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

Aviation Gyroscope

Anti-seismic Design

Supports SD card redundancy recording when if hard drive is damaged

Built-in G-sensor & gyroscope sensor provide

emergency response to collision and rollover

accidents to restrict or eliminate dangerous

deceleration, or braking, and turning too sharply

driving habits such as rapid acceleration,

Military-grade shockproof hard drives employed

Patented metal air bag damping technology

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, supporting data retransmission, the challenge of information loss without internet will be fixed properly.



Rich Interfaces

Highly-functional hardware interfaces – such as Standard M12-D Code, RJ45, and other signals meet a multitude of application requirements and



Dual System Backup

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





HD Video Security

All-round cameras with high definition, including 2MP, 5MP, 6MP, and 12MP, can provide better recording, tracking, and deterrence



IK10+ Impact Protection

- Protected against 20-joule impacts
- Equivalent to impact of a 5 kg mass
- Dropped from 400 mm above impacted surface



Intelligent Heating Control

Outdoor Cameras, like XM65 series, come up with heating module, which operate based on outdoor temperatures, and best in ambient temperatures from -40° to 70°C



IP68 Waterproof Rating

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

Certifications

All devices of Hikvsion bus solution qualify for those certifications.

EMC/LVD/RED









Environment







E-MARK

Flame retardant certification





Railway





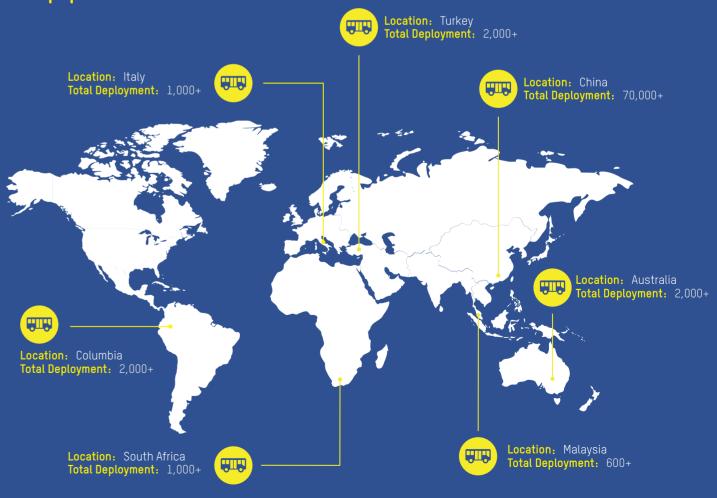
EN 50155-2017 and EN 50121-3-2

Degrees of Protections



IP66, IP67, IP68

Application Scale



Product Introduction





4-Channel MVR

- 4-ch 4MP PoE IPC + 4-ch 6MP IPC via PoE switch
- Pluggable anti-vibration HDD box, 2*2.5 inch HDD/SSD (2TB for each) .1 x SD card
- 3G/4G, 5.8G WiFi, GPS, H.265
- Full load consumption < 45 W
- 206 × 219 × 60 mm (8.1 × 8.62 × 2.36 inch)
- 1.6 kg (3.5 lb)
- CE, FCC, EN50155, EN45545, EN50121, E-mark, CB, RoHS, WEEE



8-Channel MVR

- 8-ch 8MP PoE IPC+8-ch 6MP IPC via PoE switch
- Pluggable anti-vibration HDD box, 2*2.5 inch HDD/SSD(2TB for each), 1 x SD card
- 3G/4G, 5.8G WIFI, GPS, H.265
- Full load consumption ≤ 99 W
- 202 × 267.6 × 93.9 mm (7.95 × 10.5 × 3.7 inch)
- 3.66 kg (8.07 lb)
- CE, FCC, EN50155, EN45545, EN50121, E-mark, CB. RoHS. WEEE, MIL-STD 810G



DBA Camera

AE-VC1B1I-ISF

- 720P@25fps
- 6 mm fixed lens
- 2 x 940nm LEDs
- Built in speaker
- 1 TF card, up to 256GB
- Consumption ≤ 7W
- Wide-range Input DC 9~ 36V • 92 x 90 x 106 mm (37.8 x 35.5 x 41.8 inch)



Fireproof Box

DS-MP1431-64G

- 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)



DS-2XM6122G0

- 2MP resolution, 1920 × 1080 @25fps
- 2mm/2.8mm/4mm/6mm fixed lens
- 1 Built-in microphone
- H.265+, IP66, IK08
- 24 VDC, 0.2 A, 5 W or PoE (802.3af, 36 V to 57 V), 0.2 A to 0.1 A, class 3
- Approx. 430 g (0.9 lb.)
- CE, FCC, UL, E-Mark, EN50155, EN45545, EN50121, KC, REACH, RoHS, R118, WEEE, BIS, IK, IP



DS-2XM6222G0

- 2MP resolution, 1920 × 1080 @25fps
- 2.8mm/4mm/6mm fixed lens
- H.265+.IP67, IK10
- 24 VDC, 0.22 A, max, 5.2 W or PoE (802,3af, 36 V to 57 V), 0.14 A to 0.09 A, max. 5.2 W
- Approx. 330 g (0.7 lb.)
- CE, FCC, UL, E-Mark, EN50155, EN45545, EN50121, KC, RoHS, R118, WEEE, BIS, IK, IP



360° Surround

View Monitor Host

AE-VE242A-A

- Support 4 channels of 720P TVI cameras
- 3D panoramic splice the front, rear, left and right images of the vehicle body
- 4-way HDTVI input, 1-way HDTVI output
- Can Bus interface
- TF card slot x1
- Mini USB interface x1



360° Surround

View Camera

AE-VA133T-A

- Lens (metal shell): 0.9mm fisheve lens
- H (transverse): 190 ° / V (longitudinal): 116 °
- Sensor type: 1 / 4 "1.3 Mega CMOS
- Minimum illumination: 0.1 lux @ (f1.2, AGC on) Protection grade: IP68
- Interface: 4-core BMW head interface



DS-2XM67 Series

- 2MP resolution, 1920 × 1080 @25fps
- 5MP resolution, 3072 × 1728 @ 20fps
- 2mm/2.8mm/4mm/6mm/8mm fixed lens
- 1 Built-in microphone
- H.265+, IP67, IK10
- 24 VDC, 0.3 A, max. 7.5 W or PoE (802.3af, 36V to 57V), 0.30 A to 0.20 A, max: 7.5W
- Approx. 460 g (1 lb.)
- CE, FCC, UL, E-Mark, EN50155, EN45545, EN50121, KC, REACH, RoHS,R118,WEEE,BIS,IK,IP



DS-2XM6522G0

- 2MP resolution, 1920 × 1080 @25fps
- 2.8mm/4mm/6mm fixed lens
- 3-Axis adjustment
- H 265+ IP69K IK10+
- 24 VDC, 0.36 A, max. 8.6 W or PoE (802.3af, 36 V to 57 V), 0.25 A to 0.15 A, max. 8.8 W
- Approx. 850 g (1.9 lb.)
- CE, FCC, UL, E-Mark, EN50155, EN45545, EN50121, KC, RoHS, R118, WEEE, BIS, IK, IP



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DS-2XM6825G0/C

- Dual lens, 1920 × 1200 @ 25fps
- 2 mm fixed lens
- 1 Built-in microphone
- Flash memory storing people counting data H.265+, IP66, IK08
- 24 VDC, 0.31 A, max. 7.4 W or PoE (802.3 af, 36 to 57 VDC), 0.22 A to 0.13 A, max. 7.8 W
- Approx. 640 g (1.4 lb.) CE, FCC, UL, E-Mark, EN50155, EN45545, EN50121,

KC, RoHS, R118, BIS, IK, IP



DS-2XM63 Series

- 6MP,3072 × 2048 @ 25fps,1.27 mm fixed lens
- 12MP, 4000 × 3000@20fps, 2 mm fixed lens 2 Built-in microphones

24 VDC, 0.40 A, max. 12 W or PoE(802.3af, 36

CE, FCC, UL, E-Mark, EN50155, EN45545,

EN50121, KC, RoHS, R118, BIS, IK, IP

- H 265+ IP66 IK10
- to 57 VDC), 0.34 A to 0.22 A, max. 12 W Approx. 600 g (1.32 lb.)

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