

Mobile & Traffic

SEASONAL

PRODUCTS PROMOTION

2021·Q4



CONTENTS

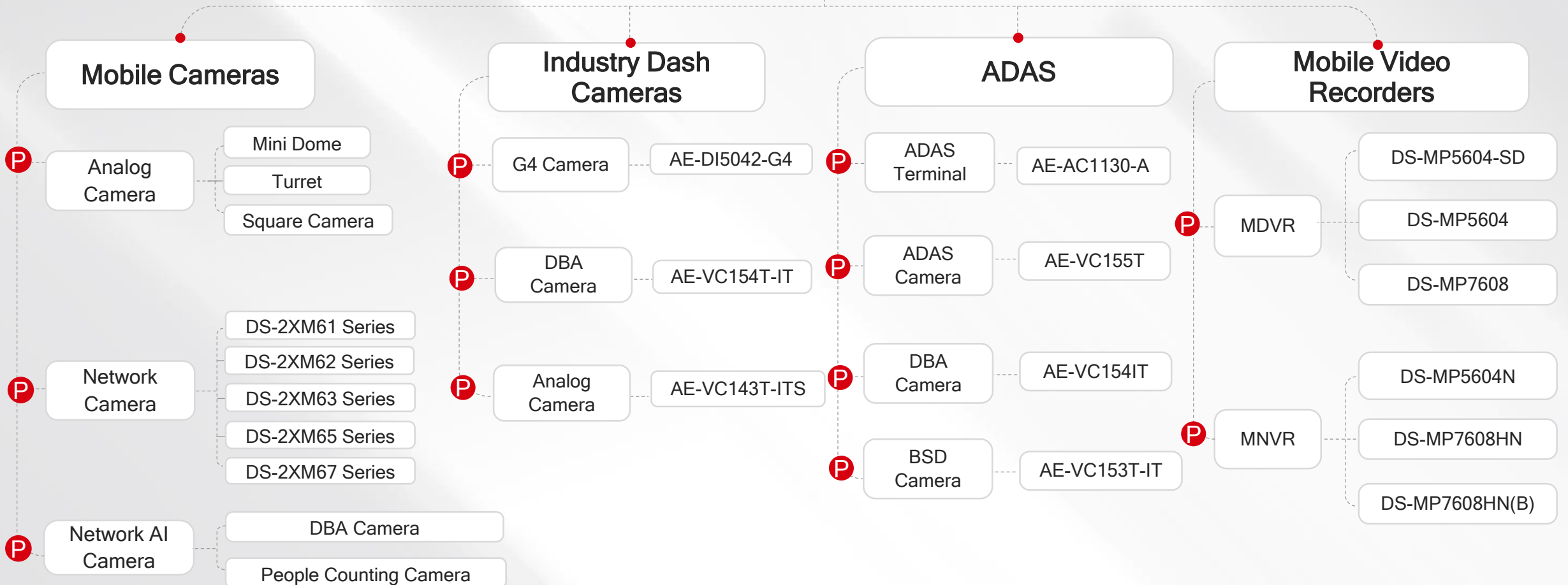
- Mobile Products
 - Portable Products
 - ITS Products
 - E&E and Parking Products
- 

01 Mobile Products

- Mobile Analog Camera
- Industry Dashboard Camera
- Advanced Driving Assistant System
- Mobile Network Camera
- Mobile Network AI Camera
- Mobile Video Recorder

Mobile Products Family

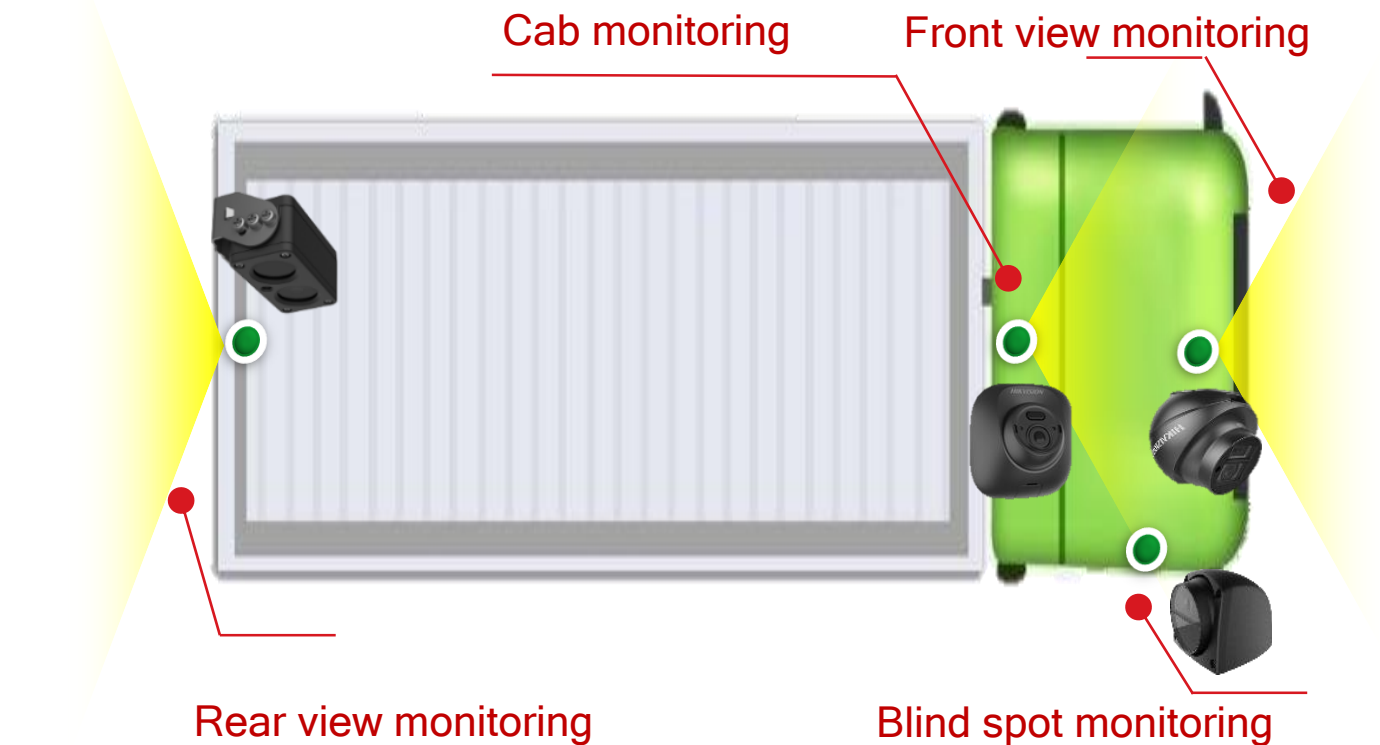
Mobile Products



Analog Solution Topology



Analog Solution Deployment



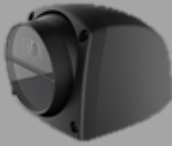
HD view

◆ 1080P, No blind spot monitoring

Low cost

◆ Cost effective and low cost solution for Low budget customers

Mobile Analog Camera

Image					
Model	AE-VC124T/A-IT AE-VC224T/A-IT	AE-VC153T/A-IT AE-VC253T/A-IT	AE-VC122T/A-ITS AE-VC222T/A-ITS	AE-VC211T-IRS	AE-VC112T/A-ITS AE-VC212T/A-ITS
Scenario	Outdoor(Side)	Outdoor	Indoor	Indoor	Indoor
Lens	2.1 mm 2.1/2.8 mm	2.1/2.8 mm	2.1/2.8/3.6 mm 2.1/2.8 mm	2.8/3.6/6 mm	2.1/2.8 mm
Resolution	720 P 1080 P	720P 1080 P	720 P 1080 P	1080 P	720 P 1080 P
IR Distance	10m	15m	10 m	10 -20m	10 m
FOV Max (D/H/V)	110°/96°/50°	125°/98°/81°	143°/117°/66°	100°/82°/54°	154°/126°/66°
Protection Level	IP68	IP68	IP68	/	/

Mobile Analog Camera



AE-VC211T-IRS

- 2 MP Progressive CMOS sensor
- Up to 1080P resolution
- IR cut filter
- True WDR
- Built-in microphone

- 2 MP Progressive Scan CMOS
- Clear and vivid image 1080P
- 110° Lens, Metal Case
- 0.1 Lux@(F1.2, AGC ON), 0 Lux with IR
- Working temperature: -30°C~70°C



AE-VC224T-IT

- 2 MP Progressive Scan CMOS
- Turbo HD output, up to 1080P resolution
- 0.1Lux @(F1.2,AGC ON),0 Lux with IR
- Adopt wide-angle lens with wider monitoring coverage

- 2 MP Progressive Scan CMOS
- Coaxial HD, up to 1080P
- Ingress protection:IP68
- 120° Lens, Metal Case
- 0.1 Lux@(F1.2, AGC ON)
- Working temperature: -40°C~75°C



AE-VC222T-ITS



AE-VC253T-IT

Analog New Cameras

-- Compact camera with built-in mic which is ideal for front and rear vehicle-mounted



2021.11

1/2 MP

- **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, H FOV 125°, V FOV 80°, D FOV 148°
Front camera: 2.1 mm, H FOV 125°, V FOV 66°, D FOV 154°
- Adjustment Angle: Tilt: 0°to 360°
- SNR: 46dB
- 9 to 16 VDC
- CE/FCC/Emark

Note: The information here within the Upcoming part contains product planning, and is for internal use only. In need for editing authorization or information pass to clients, please consult your MKT and ensure information control

Analog New Cameras

-- Compact camera with built-in mic which is ideal for front vehicle-mounted

2021.11



1 MP

■ AE-VC159T-S

- **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, horizontal FOV 127°, vertical FOV 73°
- SNR: 42dB
- 9 to 16 VDC
- CE/FCC/Emark

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Analog New Cameras

-- Compact camera with wide-angle lens



2021.11

1 MP

■ **AE-VA136T**

- ❑ 720P@ 30 fps
- ❑ Min. illumination: 0.01 Lux @(F1.2, AGC ON)
- ❑ **Supports full color**
- ❑ **Wide-angle lens**
 - 1 mm, Fisheye, horizontal FOV 202°, vertical FOV 112°
 - 2.1 mm horizontal FOV 124°, vertical FOV 80°
- ❑ **IP68&69K, IK10**
- ❑ **SNR: 42dB**
- ❑ 9 to 16 VDC
- ❑ CE/FCC/Emark

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Mobile Analog DVR Kit

1 Lower Cost

3 H.265/H.264

5 4G(4G version)

2 Plug and Play

4 1080P

6 GPS(4G version)

DS-MP5604-SD (Lite)(Kit)

2 MP



KIT	DS-MP5604-SD(Lite) KIT	DS-MP5604-SD/GLF(Lite) KIT
TVI Camera	1*Cube AE-VC253T-IT 1*Dome AE-VC212T-ITS 1*Turret AE-VC222T-S 1*Turret AE-VC224T-IT	1*Cube AE-VC253T-IT 1*Dome AE-VC212T-ITS 1*Turret AE-VC222T-S 1*Turret AE-VC224T-IT
MDVR	DS-MP5604-SD(Lite)/DS-MP5604-SD/GLF(Lite)	
NOTES	Optional extension cable:2m,4m,6m,8m,10m,12m,14m,16m,18m,20m Optional SD card:32GB/64GB/128GB/256GB	

Mobile Analog DVR Kit

1

Excellent Video Quality

2 MP TVI camera with the resolution 1080P

2

Vibration Reduction Design

Adopting vibration damping technology, suitable for on-board scenario applications

3

Power Design

9-32V power input and power-fail protection

4

Plug and Play

Easy and convenient, cameras covering the main areas of the vehicle

DS-MP5604-SD(Lite)

- ✓ 4-ch HD1080p@12fps
- ✓ H.265
- ✓ 1 x SD card slot, up to 256GB
- ✓ no fan design
- ✓ 9~32VDC wide range.



AE-VC212T-ITS(2.1mm)

- ✓ 1080P TVI
- ✓ 10m IR Distance
- ✓ Build-in MIC
- ✓ 40°C~75°C



AE-VC222T-S(2.1mm)

- ✓ 1080P TVI
- ✓ Build-in MIC
- ✓ Metal Case
- ✓ Full color
- ✓ 40°C~75°C



Industry Dashboard Camera

Easy to use with app, small size, easy Installation



AE-DI5042-G4

- 1440P with customization
- Wi-Fi, Bluetooth, 4G
- Dual TF Card(up to 128GB for each)
- Supports front end driver face recognition attendance, people counting
- Supports detection of driver absent minded, making phone calls, tempering cameras
- Supports direct linkage with mobile App with Bluetooth or WiFi



AE-VC143T-ITS

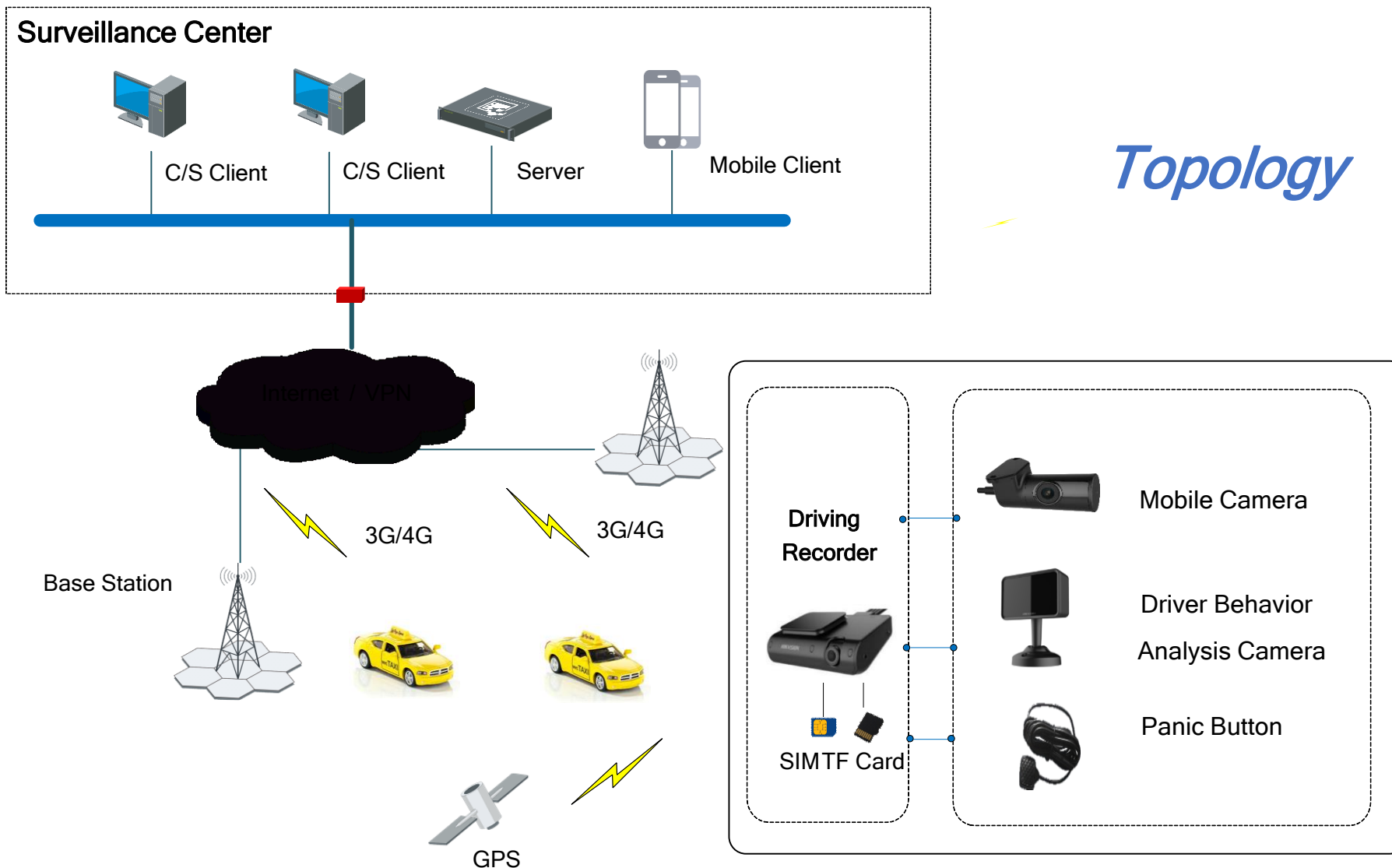
- Progressive Scan CMOS
- 720P@25fps
- 0.1Lux@(F1.2,AGCON),0LuxwithIR
- 5mIR
- Built-in Mic & speaker
- Supports passenger people counting (working with AE-DI5042-G4)



AE-VC154T-IT

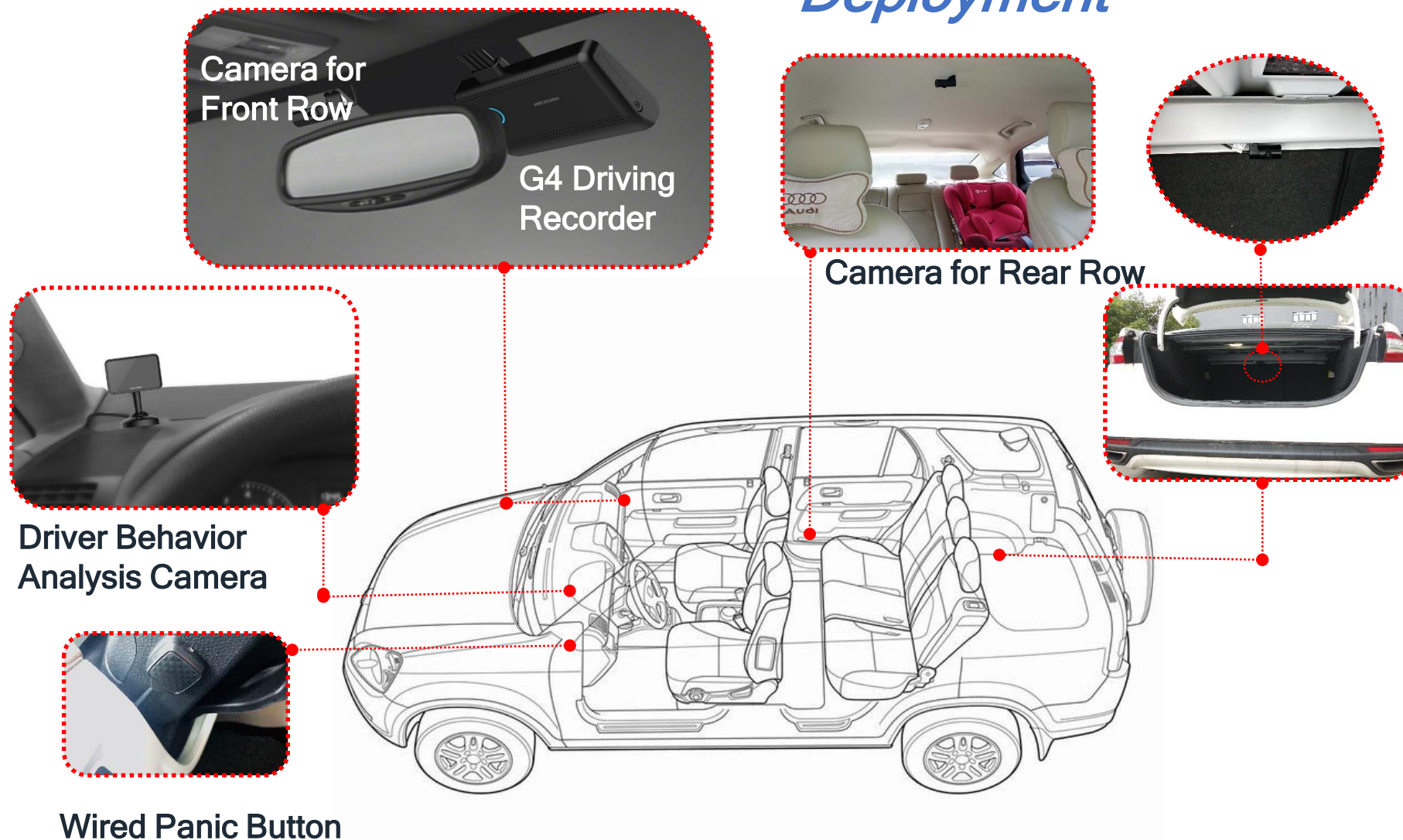
- Progressive Scan CMOS
- 720 P@ 25 fps
- 3 m IR
- Supports face capturing and recognition and uploading
- Supports detection of driver behavior, such as phone call, smoking, driving while drowsy,etc. (working with AE-DI5042-G4)

Industry Dashboard Camera



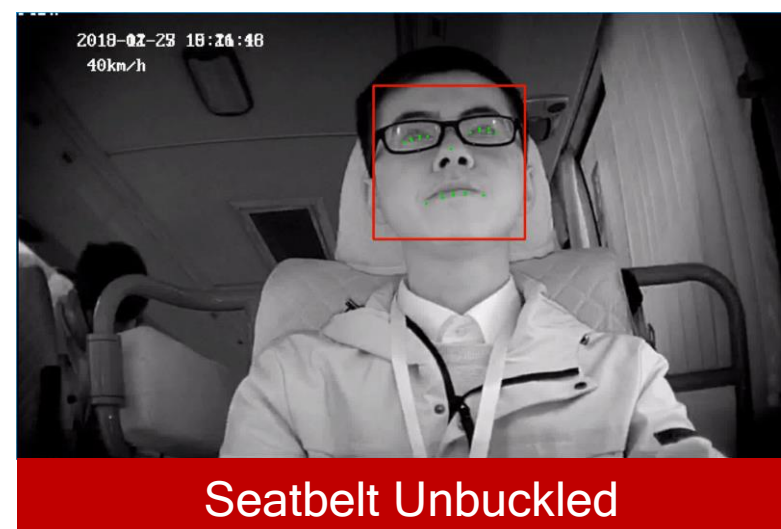
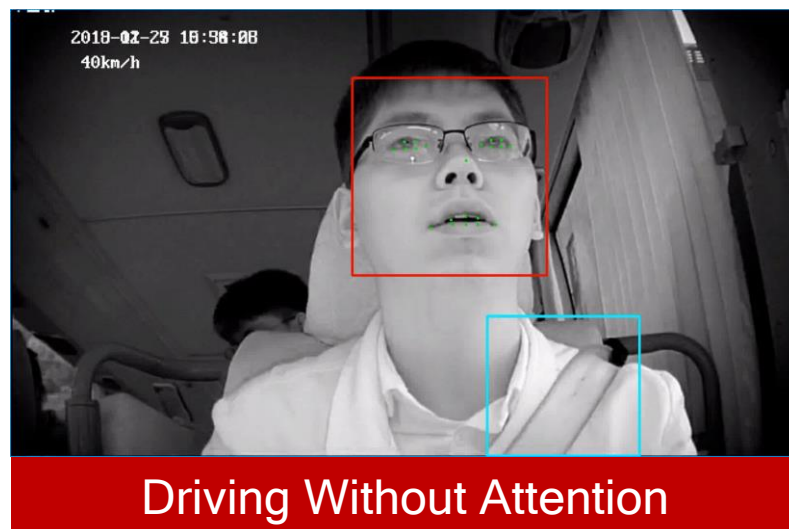
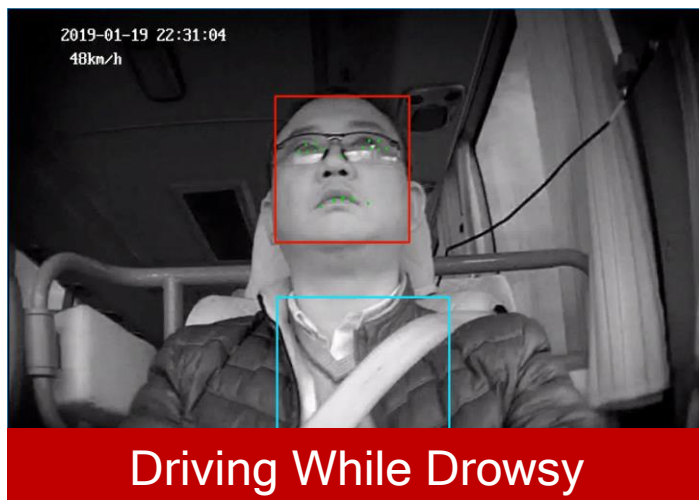
Industry Dashboard Camera

Deployment



Industry Dashboard Camera

DBA Functions



Advanced Driving Assistant System

HIKVISION®



AE-AC1130-A(Terminal)



AE-VC155T(ADAS camera)



AE-VC154T-IT(DBA camera)



AE-VC153T-IT(BSD camera(Rear))

01 Video input/output

Support four channels of 720p TVI video access and one channel of CVBS output;

02 4G/GPS

Support 4G, Beidou / GPS dual-mode positioning

03 Storage

Support dual SD cards (Max. 256G)

04 Smart event

ADAS + DBA + BSD

01 Resolution

720P

02 Lens

2.1 mm

03 Smart event

Forward Collision Warning (FCW)
Lane Departure Warning (LDW)
Headway Monitoring Warning (HMW)
Pedestrian Collision Warning (PCW)
(Working with AE-AC1130-A)

01 Resolution

720P

02 Lens

6 mm

03 Audio in

Built-in MIC

04 Smart event

Supports face capturing and recognition and uploading; Supports detection of driver absent minded, making phone calls, tempering cameras
(Working with AE-AC1130-A)

01 Resolution

720P

02 Lens

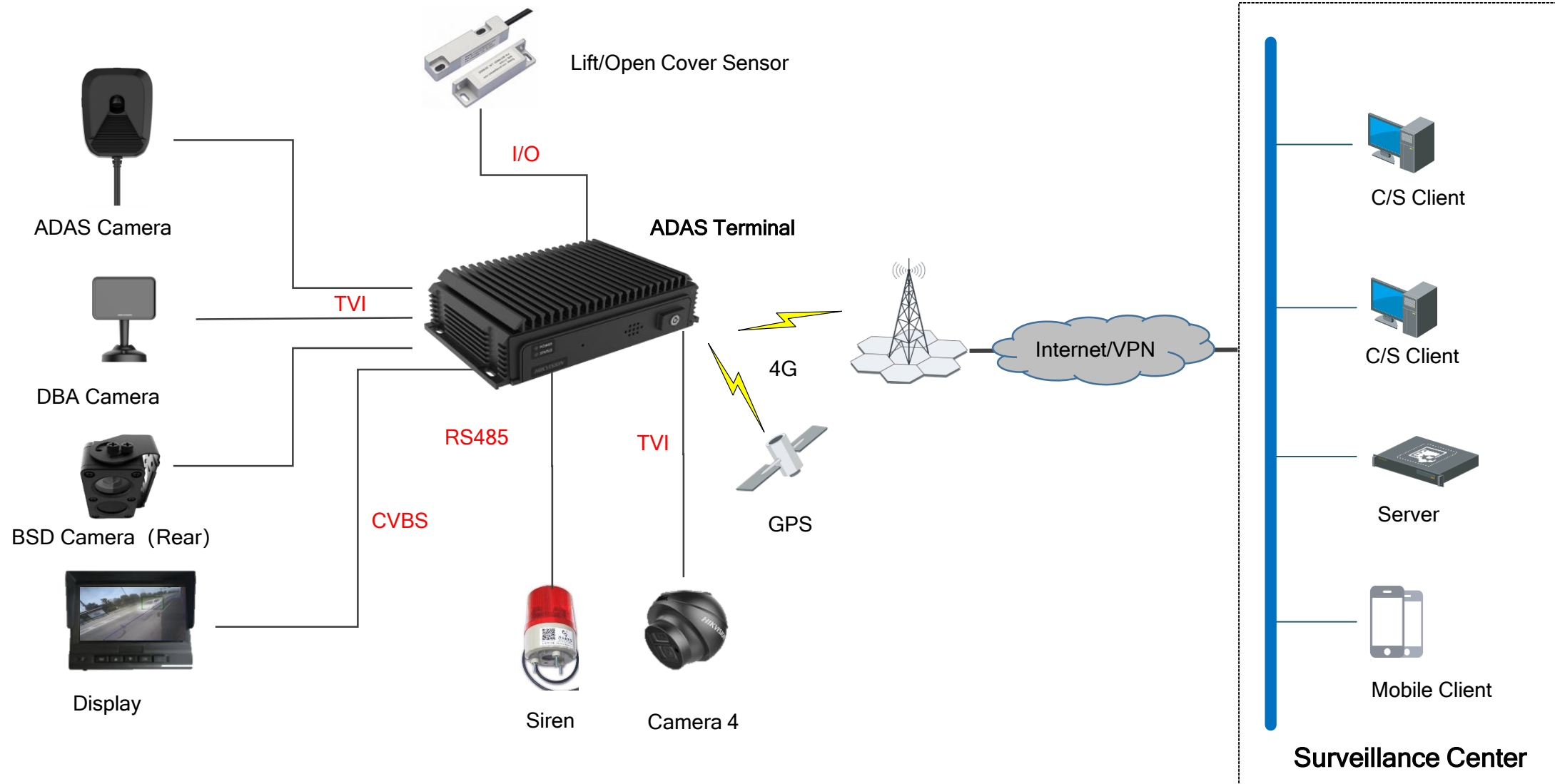
2.8/3.6 mm

03 IR

10-20 m

Advanced Driving Assistant System

Topology



Advanced Driving Assistant System

HIKVISION®

Deployment-Rear BSD



Advanced Driving Assistant System

ADAS Functions



Forward Collision Warning (FCW)



Lane Departure Warning (LDW)

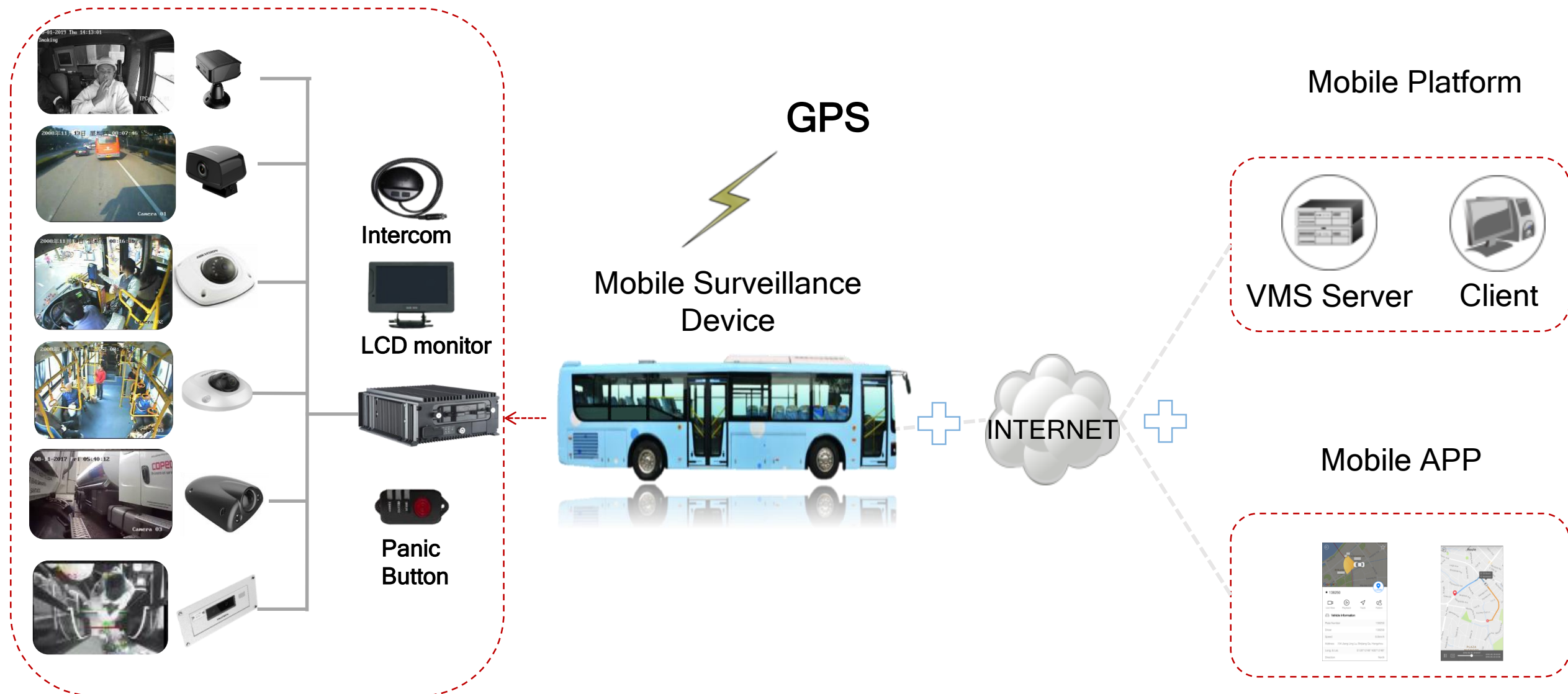


Pedestrian Collision Warning (PCW)

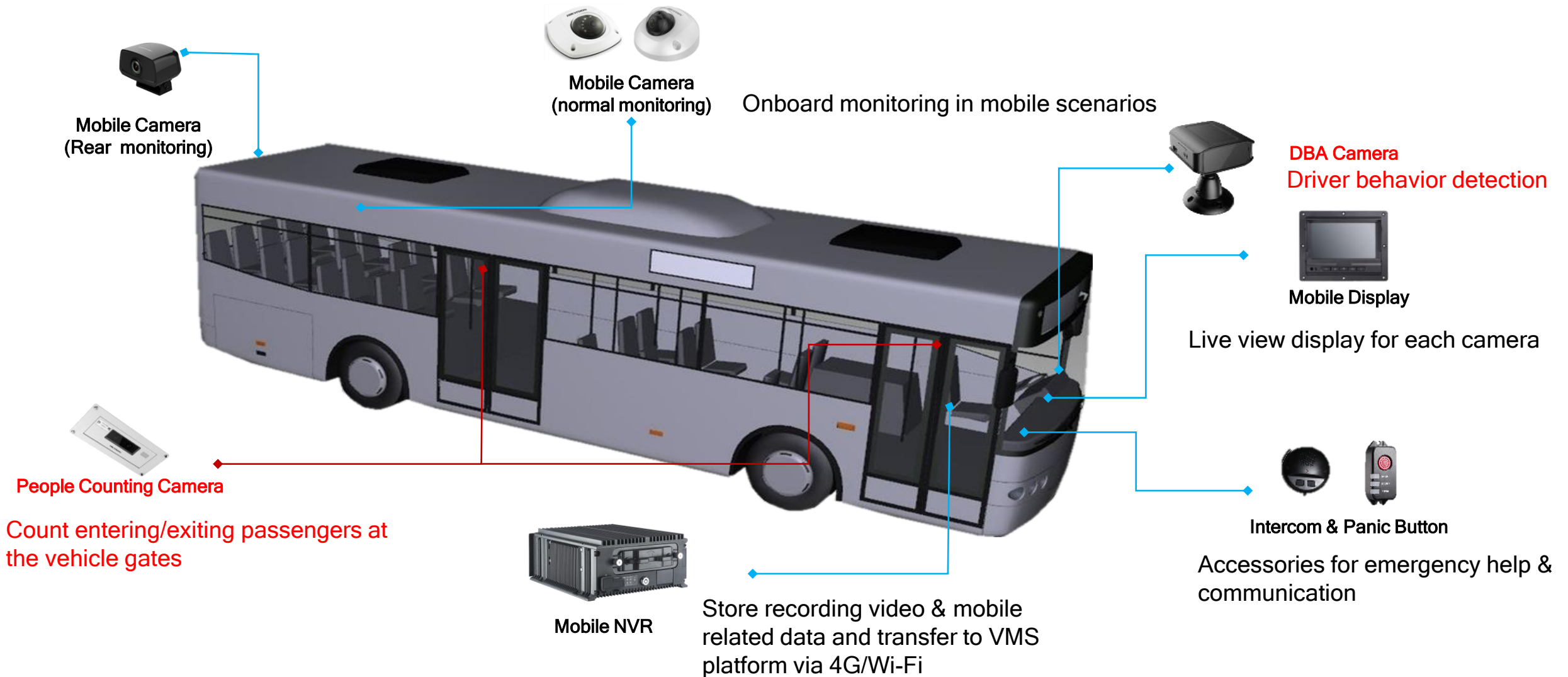


Headway Monitoring Warning (HMW)

Network Solution Topology



Network Solution Deployment



*** Installed vehicle is in kind prevail*

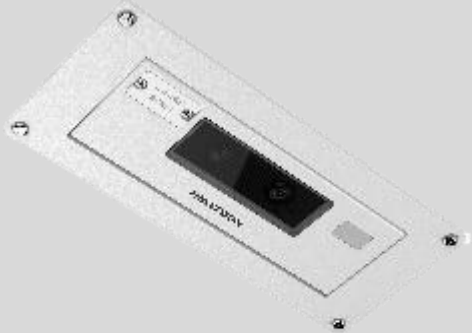
Mobile Network Camera

	DS-2XM672(5)6G0-I(D)(S)(M)/(ND)(AE)(C)	DS-2XM6122G0-I(D)(M)/(ND)(AE)	DS-2XM6222G0-I(D)(M)/(ND)(AE)	DS-2XM6522G0-I(D)(M)/(ND)(C)	DS-2XM63C(6)5G0-IV(S)(M)/(ND)(C)
Image					
Max. Resolution	DS-2XM6726G0-I(D)(S)(M)/(ND): 1920 × 1080 DS-2XM6756G0-I(D)(S)(M)/(ND): 3072 × 2048	1920 × 1080	1920 × 1080	1920 × 1080	DS-2XM63C5G0-IV(S)(M)/(ND):4000 × 3000 DS-2XM6365G0-IV(S)(M)/(ND):3072 × 2048
Lens	2.0 / 2.8 / 4 / 6 / 8 mm	4 / 6 mm	2.8 / 4 / 6 mm	2.8 / 4 / 6 mm	DS-2XM63C5G0-IV(S)(M)/(ND): 2.0 mm DS-2XM6365G0-IV(S)(M)/(ND): 1.27 mm
IR	30	10	30	10	15
Smart Event	DS-2XM6726G0-ID(S/M)/(ND): N/A DS-2XM6756G0-ID(S/M)/(ND): line crossing detection, intrusion detection, unattended baggage detection, object removal detection, face detection	N/A	N/A	Line crossing detection, intrusion detection, region entrance detection, region exit detection, unattended baggage detection, object removal detection, scene change detection, defocus detection, face detection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection
Multi-Streaming	DS-2XM6726G0-I(D)(S)(M)/(ND): 2 DS-2XM6756G0-I(D)(S)(M)/(ND): 3	2	2	3	2

Mobile Network AI Camera

HIKVISION

Implement scientific and effective analysis of passenger flow, help manager to make better operation scheduling, improve service quality and enhance passenger satisfaction.



Hot

People Counting Camera

DS-2XM6825G0/C-IVSM
DS-2XM6825G0/C-IVS
DS-2XM6825G0/C-IVM/ND

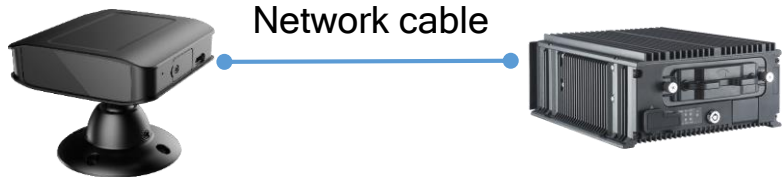
- 1/2.8" Progressive Scan CMOS
- 2 MP @ 25fps
- Lens, 2mm
- IR, 3m
- Counts people entering and exiting
- Built-in microphone
- IP66, IK08

Mobile Network AI Camera

HIKVISION®

Driver Behavior Analysis: Driver behavior detection, such as using mobile phones, smoking, driving while drowsy, etc.

- 1/4" Global shutter
- 1280 × 720 @30fp
- Lens, 4mm
- Horizontal FOV 55°, vertical FOV 32°
- TF card up to 256GB



Need extra 9-36 VDC
power supply

MNVR

Sample



DBA Camera

AE-VC1B1I-ISF

Mobile Video Recorder

MDVR



DS-MP5604-SD

- 4-ch 1080p analog cameras
- 1-ch 1080p IP cameras input
- 2x SD card slot, 256GB



DS-MP5604

- 4-ch 1080p analog cameras
- 4-ch 1080p IP cameras input via PoE switch
- 1x 2.5 inch HDD slot, 2TB
- Built-in G-sensor



DS-MP7608

- 8-ch 1080p analog cameras
- 4-ch 1080p IP cameras input via PoE switch
- 2x 2.5 inch HDD slot, 2TB
- Built-in G-sensor

MNVR



DS-MP5604N

- 4-ch Max.4MP IP cameras via PoE interfaces
- 4-ch Max.4MP IP cameras via PoE switch
- 2x 2.5 inch HDD slot, 2TB
- Built-in G-sensor



DS-MP7608HN

- 8-ch 1080p IP cameras via PoE interfaces
- 8-ch 1080p IP cameras via POE switch
- 2x 2.5 inch HDD slot, 2TB
- Built-in G-sensor



DS-MP7608HN(B)

- 8-ch 1080p IP cameras via PoE interfaces
- 8-ch 1080p IP cameras via POE switch
- 2x 2.5 inch HDD slot, 2TB
- LPR

Mobile Network Video Recorder



Deep Learning algorithm

Released



DS-MP7608HN(B)

8+8ch

8-ch IP 2MP + 8-ch IP 2 MP (via PoE switch)

H.265

H.265 Encoding



2 * HDD/SSD (2TB for each), 1 * SD / SDHC (256 GB)



2-ch LPR



Built-in GPS, pluggable, 3G / 4G, Wi-Fi

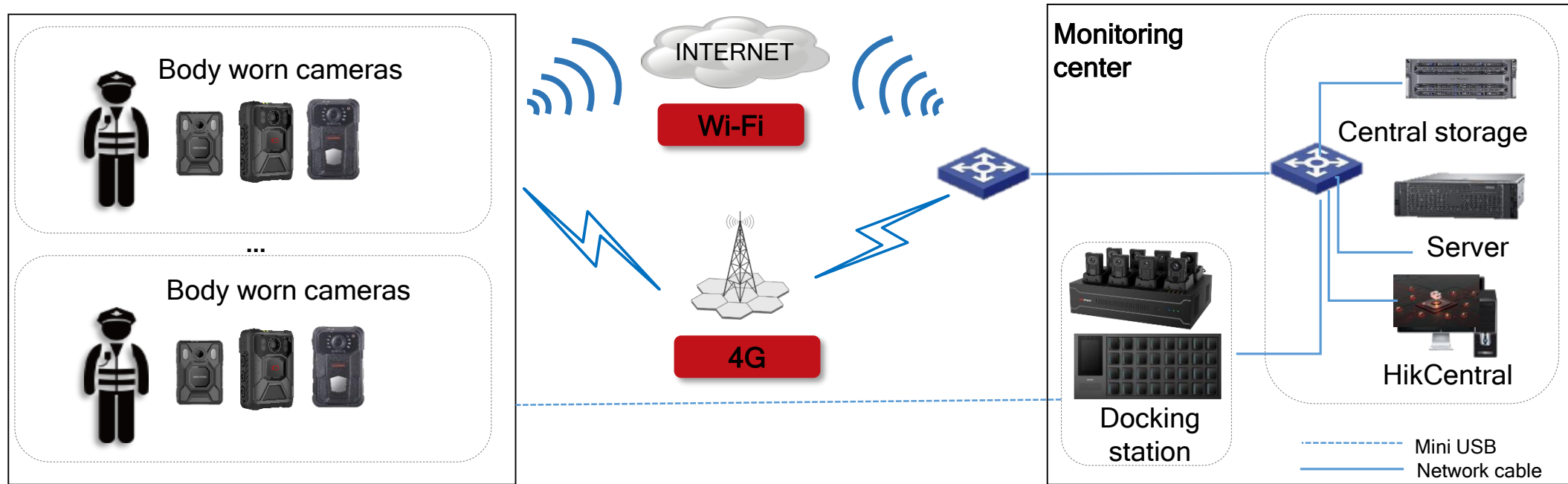


CE, FCC, E-mark, EN50155, CB, BIS , RoHS

02 Portable Product

- Portable Enforcement System
 - Body Worn Camera
 - Dock Station
- Portable PTZ Dome
- Portable Helmet Camera

Portable Enforcement Topology



The video of the body cameras are backed up locally in the dock stations, and central platform can manage those videos. Also, video can be backed up to the central storage in the monitoring center.

Body Worn Camera

Product	DS-MCW405	DS-MCW407	DS-MH2311(C)
Appearance			
Video Resolution	1080P/720P	1080P/720P	1080P/720P
Horizontal FOV	117°	125°	129°
Picture Resolution	/	40 MP	30 MP
Face Picture Capture	/	/	100,000 face, face picture capture, and upload
Screen	/	2.0 inch LCD	2.4 inch touch LCD
Battery	2800 mAh	3220 mAh	Dismountable with 3300 mAh
Working Hour	1080P for 10 hours 720P for 12 hours	1080P for 11 hours 720P for 12 hours	1080P for 13 hours 720P for 15 hours
3G/4G	/	Optional	√
GPS	Optional	Optional	√
Wi-Fi	Optional	Optional	√
OS	Linux	Linux	Android
Weight	120 g	160 g	190 g
IP level	IP67	IP67	IP67

Body Worn Camera

Large recording button

- Easy to operate



All-in-one Compact Design

- Body camera with TFT LCD, battery, GPS location, light weight.



APP management

- Live view
- Remote playback
- Device maintenance



Industrial Level Design

- Rugged hardware design, anti-drop with the height of 1.5 Meters.
- Waterproof design with IP67, which makes it usable in extreme outside conditions.



Long-lasting battery life

- Super long endurance, support up to 12 hours of recording time



Mounting Accessories

- Plastic/Metal Clip
- Magnetic Type
- Chest Harness



DS-MCW407

New Body Worn Camera

2021.11

Economical

Linux

2 MP

DS-MCW406

- TYPE-C interface
- 1.7 inch TFT, 128*160
- IR-cut
- 2500mAH battery



Long working
time

12h recording at
1080P



Cost effective

Competitive price



Perfect body
worn

Curved back clip design

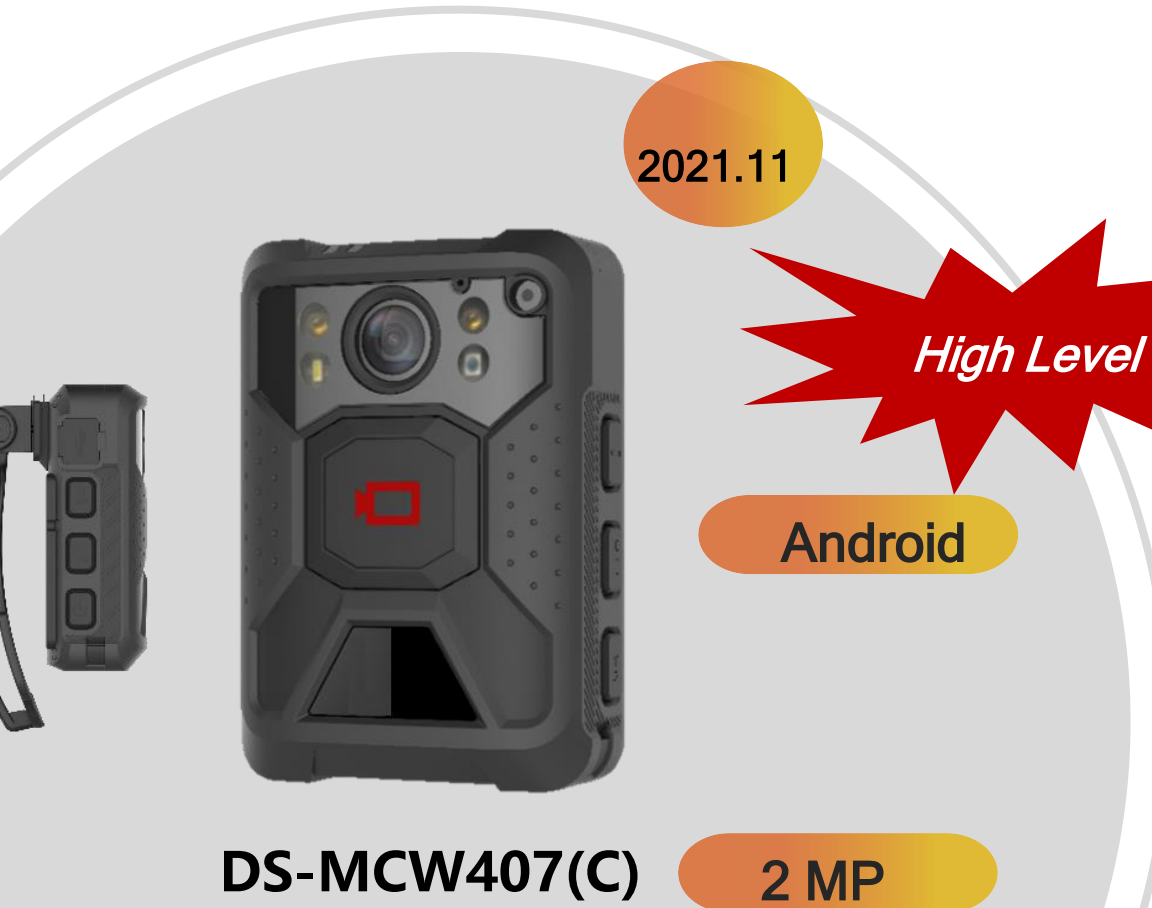


Small size

125g
80*59*30

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New Body Worn Camera



- TYPE-C interface
- 2.0 inch TFT, 128*160
- Upgrade copper column bottom contacts
- Support clickfast switching
- 3300mAH battery
- Support to install 3rd APP



Big button

One button to start video recording



High protection

IP68
2 m drop test



Perfect body worn

Curved back clip design



Small size

165g

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New Body Worn Camera

- TYPE-C interface
- 2.0 inch TFT, 128*160
- Upgrade copper column bottom contacts
- Support clickfast switching
- 3300mAH battery

2021.12

Spotlight

Linux

2 MP

DS-MCW407D



Big button

One button to start video recording



High protection

IP68
2 m drop test



Perfect body worn

Curved back clip design



Small size

160g

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Dock Station



Dock station model:

DS-MDS003

Expanded model:

DS-MDS003-E



Charging & Uploading

- 8-32 slots, support 8-slots pluggable module
- Unlock bodycam by face recognition or password verification



Large Storage

- Standard 2 TB storage capacity
Up to 8 TB for each disk



System

- Embedded Linux storage system& Android operation system to ensure the data safety



Installation

- Wall mount / desktop mount / mobile mount

Dock Station

Updated



Dock station model:
DS-MDS001

Windows → Linux

01

8 dock slots for back up and charging,
support up to 8 body cameras

02

Linux operation system

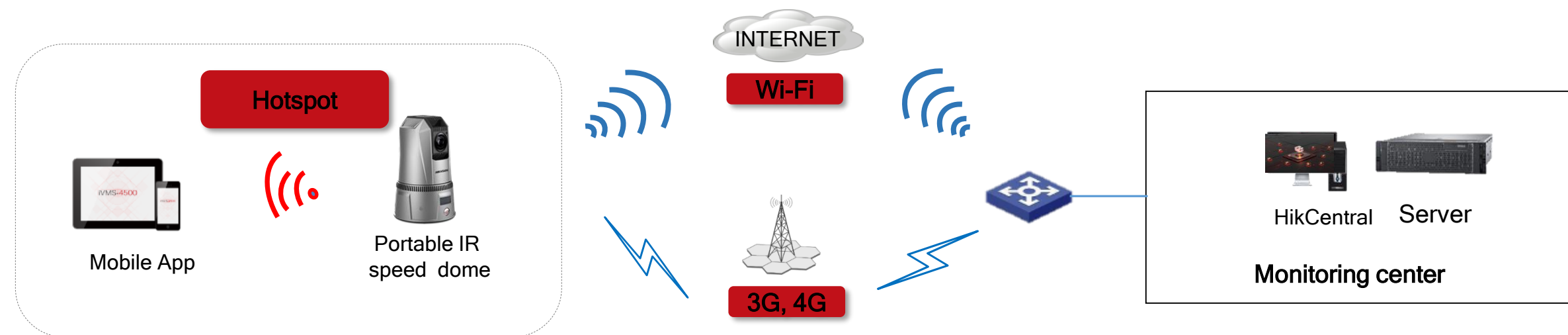
03

Dock management software based
on webpage

04

CE/CB

Portable PTZ Dome



When permanent surveillance installations are not possible, it handles emergency issues across the city, provides visions around blind urban corners, and secures critical borders.

Portable PTZ Dome

Smart Event

- Supports recognition of vehicle license plate number, color, type, and brand
 - Face capture

Storage

- Built-in dual TF card slots, up to 256 GB for each TF card

Data Transmission

- One 4G module and two extended 4G modules; 802.11 b/g/n/ac Wi-Fi; GPS positioning module; Bluetooth 4.0

01

02

03



Camera

- 2 MP @ 25 fps;
- 4.5 mm to 135 mm
- 30× optical

04

05

Protection

- IP66 standard; TVS 2000 V lightning protection, surge protection, and voltage transient protection

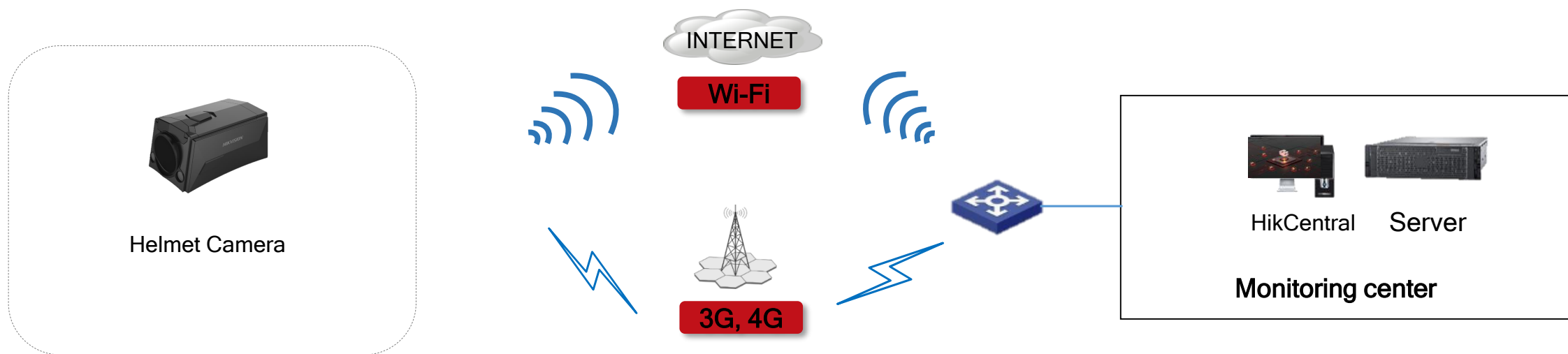
06

working Time

- About 9-hour working time in standby status when 4G, IR, Wi-Fi, PTZ, and storage are disabled

iDS-MCD202-B

Portable Helmet Camera



The Helmet Camera for law enforcement features image capture, video recording, local storage, IR night vision, wireless transmission, GPS, BeiDou navigation, and more. It is small, light, and convenient to carry. It is designed for a wide range of applications in public security, city management, industry, commerce, and more

Portable Helmet Camera

It is widely applicable to safe manufacturer, emergency repair, combat training, etc.



2 MP/ 1080 P, one-key capture and record



Built-in MIC, white/IR light



14-hour (720p), 12-hour(1080p) working time



4G, Wi-Fi, GPS, Bluetooth

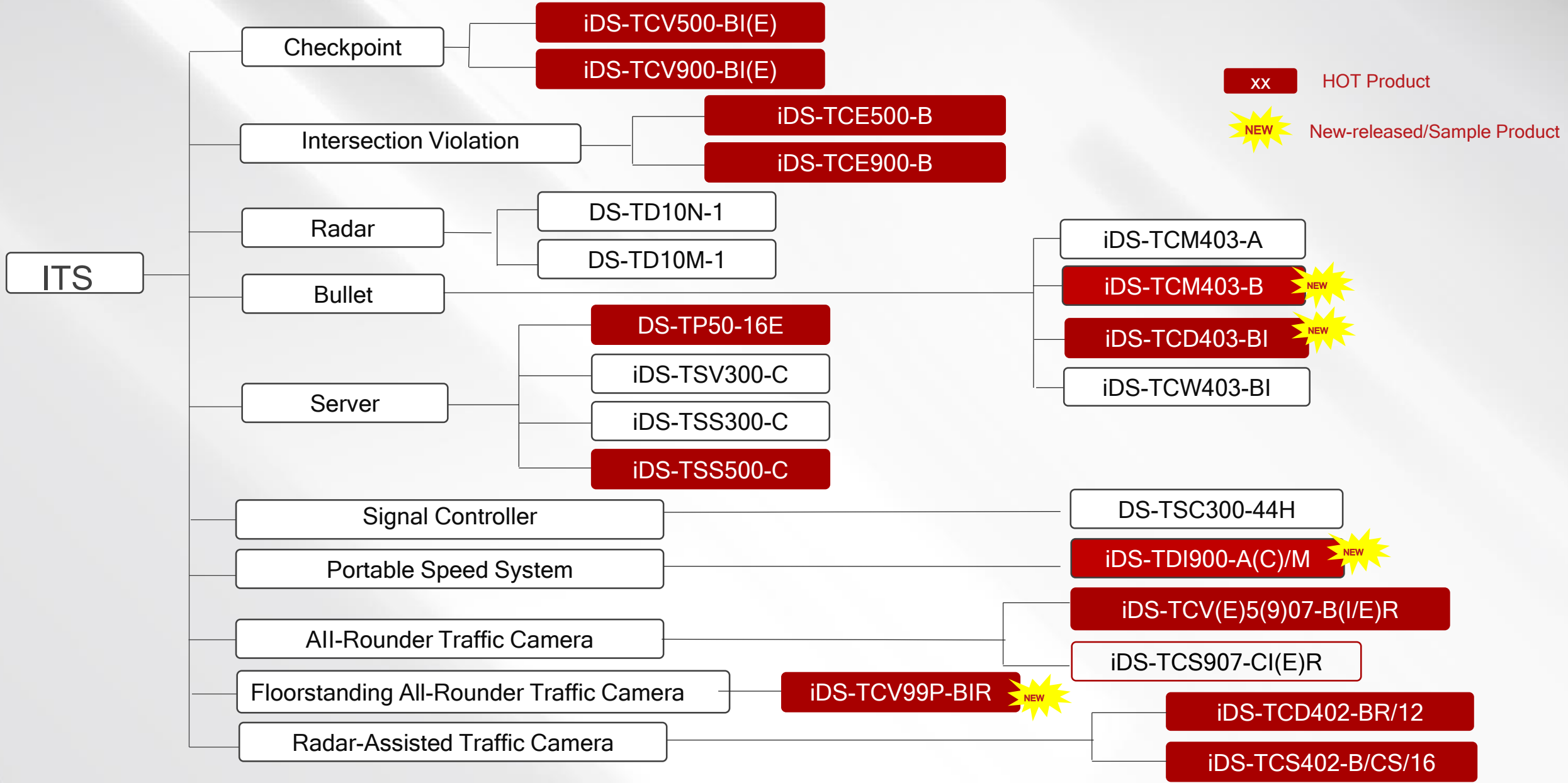


DS-MCH508

03 Intelligent Traffic System

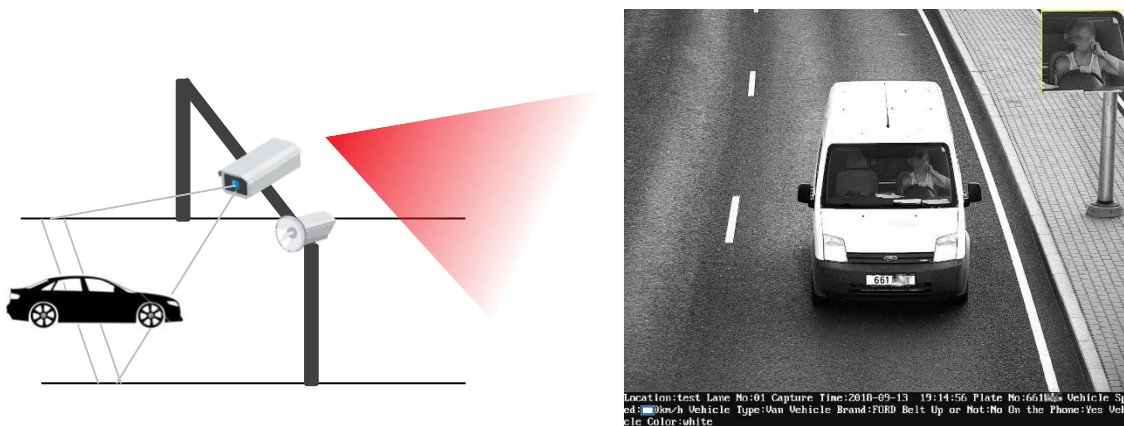
- Checkpoint System
- Intersection Violation System
- Portable Radar Speed-detector
- Smart Monitoring System
- Traffic Flow Detection System
- Vehicle Speed Detection System in Enclosed Areas
- AID System

Product Family

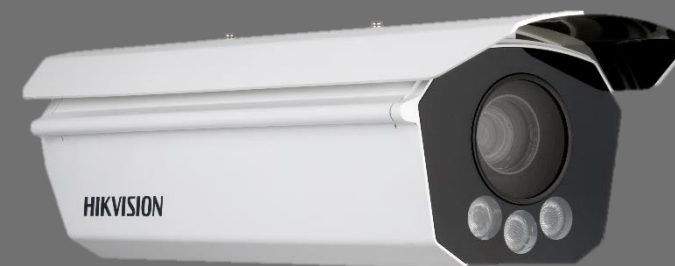


Checkpoint System

The checkpoint capture unit (with light as auxiliary) can capture passing vehicles, identify their attributes and keep as record for future reference.



- 5 MP 2/3" GMOS, 2464 * 2056 @ 50 fps
- 9 MP 1" GMOS, 4096 * 2160 @ 30 fps
- *No-plate vehicle capture, vehicle driving direction detection, motorcycle LPR*
- *Driving on lane line, Illegal lane change, wrong-way driving, emergency lane occupation, seatbelt, phone call detection*
- Support **10** vehicle types, **11** vehicle color, **84** vehicle brands
- Support ANPR of **109** countries/regions, detection & LPR rate ≥ **98%**



Deep Learning algorithm

iDS-TCV500-BI(E)/1550/H1
iDS-TCV900-BI(E)/1140/H1

Checkpoint System

A -> B series upgradation



Upgraded deep-learning algorithm

- Support **10** vehicle types, **11** vehicle color, **84** vehicle brands

Type: Car/Van/Bus/Truck/Light/Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle

Color: Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, black (daytime only)

- Support ANPR of **109** countries/regions, capture rate & recognize rate $\geq$ **98%**



Hardware upgradation

- 3MP $\rightarrow$ 5MP
- More lens optional
(25 mm, 15-50 mm, 11-40 mm)
- GPS optional



Performance improvement

- Optimizing capture & recognize rate
- Enhancing picture performance at night



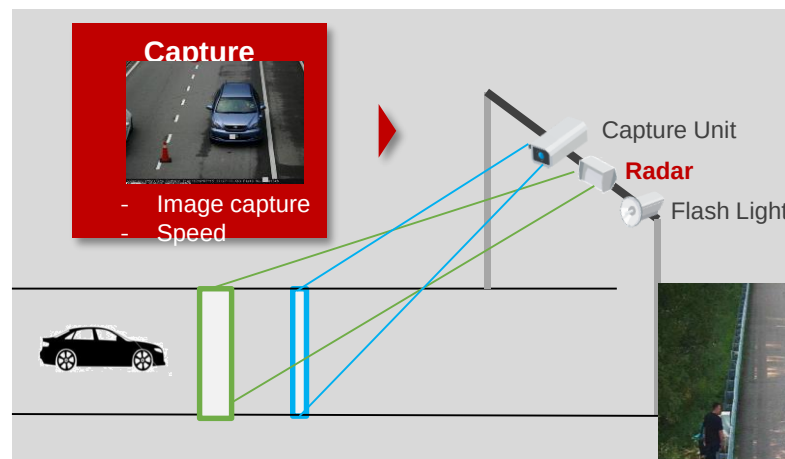
Integrate interfaces diversity

- Richer interfaces to integrate with HikCentral, NVR or 3rd party
- Process optimization for ONVIF and ISAPI protocol



Checkpoint System

Radar



- Capture Rate $\geq 95\%$
- Detect distance: 18 m ~ 28 m, cover 1-3 lanes(forDS-TD10M-1)
- Velocity range: **10~250 km/h**, measurement accuracy: -4~0km/h
- Support vehicle front & rear triggering
- Support multiple target detection

DS-TD10N-1
DS-TD10M-1

Checkpoint System

Supplement Light



Strobe Supplement Light

16/28 LED strobe supplement light

- Light Angle 10° (Single lane)
- Effective distance 16 to 25m
- Level quantity trigger
- -40°C to 70°C, 10% to 90%
- IP65



Continuous Supplement light

16/28 LED continuous supplement light

- Infrared Continuous LED light, Wave length ≥ 850nm
- Light Angle 40° (3 lanes)
- Effective distance 16 to 25m
- Support ambient brightness detection, automatic start-up at low illumination.
- -40°C to 70°C, 10% to 90%
- AC220V ± 20%, 47Hz ~ 63Hz
- IP65



DS-TL2002A(I)

DS-TL2002C(I)



DS-TL2000A(I)-

DS-TL2000C(I)

Checkpoint System

Flash Supplement Light

01 | Effective distance

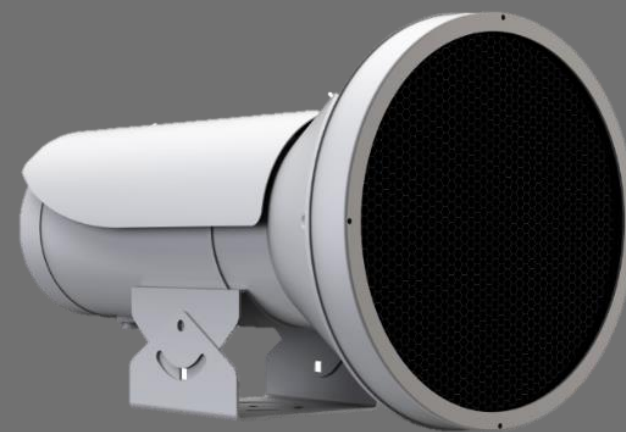
- 16 m - 25 m
- Single lane

02 | Flash energy (J)

- 200 J

03 | Powerful performance

- Service Life : ≥ 20 Million times
- Response Time : Max. 67ms



SL-1211-1(I)

Checkpoint System

All-Rounder Traffic camera



Deep Learning algorithm

IDS-TCV507-BI(E)R/1550

IDS-TCV907-BI(E)R/1140



Built-in camera, radar and light

Camera

- IDS-TCV507-BI(E)R 5MP 2/3" GMOS, cover **2** lanes
- IDS-TCV907-BI(E)R 9MP 1" GMOS, cover **3** lanes



Radar (Speed measurement)

- Central Frequency: 24.05 to 24.25 GHz
- Measurement Accuracy: -4 to 0 km/h
- Velocity Range: **10 to 300** km/h
- Double Trigger: Approaching direction, leaving direction, and both



Supplement light

- Light Beads: 16
- IR Range(For IR model): Up to **40** m (under 30m, get the better detection performance)



Functions

- Support **10** vehicle types, **11** vehicle color, **84** vehicle brands
- Support ANPR of **109** countries/regions, capture rate & recognize rate $\geq$ **98%**
- Support no-plate vehicle capture, vehicle driving direction detection, motorcycle LPR
- Speed measurement
- Support **side mounting** with convenient installation and debug
- Support platform: **HikCentral Master**

Checkpoint System

All-Rounder traffic camera

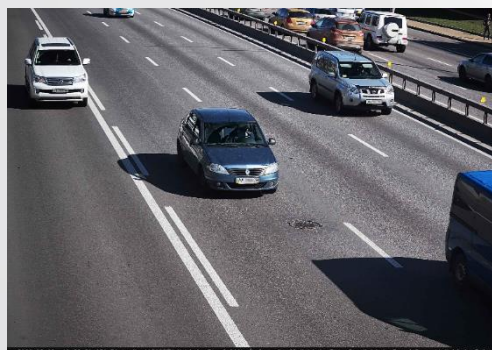


Highly integrated, aesthetic appearance

Roadside mounted, cost-saving

Convenient for installation, debug and maintain

Selectable mode of Checkpoint or Violation unit

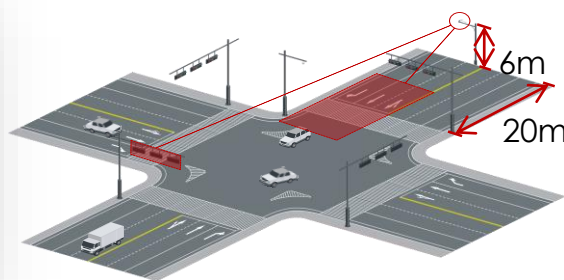
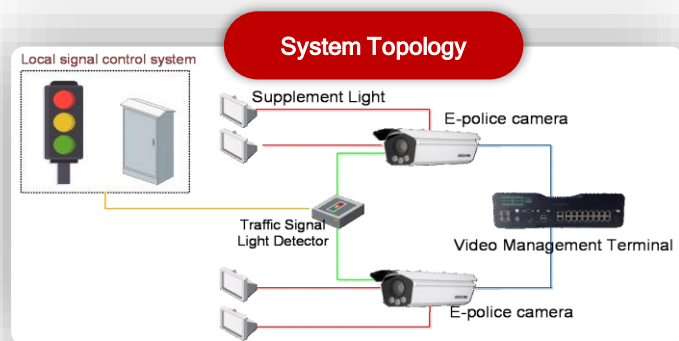


Higher performance even at nighttime

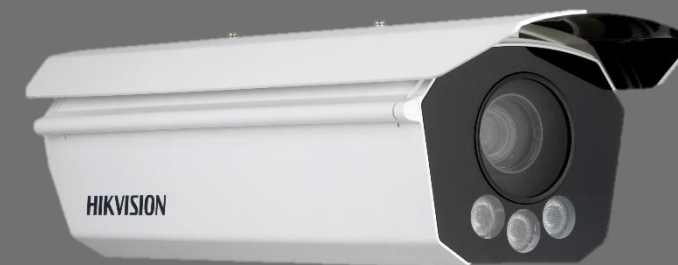
Widely applied in highway, urban road, intersection, mix road scenarios and so on

Intersection Violation System

The intersection violation system is deployed at the intersections to detect traffic violations and collect forensic evidence.



- Connect to the local signal control system to read the signal light status.
 - 5 MP 2/3" GMOS, 2464 * 2056 @ 50 fps
 - 9 MP 1" GMOS, 4096 * 2160 @ 30 fps
 - *Running the red light, Wrong-way driving, Illegal lane change, Solid line driving, Driving in wrong lane at intersection, Illegal U-turn detection*
 - Support **10** vehicle types, **11** vehicle color, **84** vehicle brands
- Type: Car/Van/Bus/Truck/Light/Truck/SUV_MPV/Pickup/Pedestrian/Motorcycle/Tricycle
Color: Red, yellow, green, blue, pink, purple, cyan, brown, white, grey, black (daytime only)
- Support ANPR of **109** countries/regions, detection & LPR rate ≥ **98%**



Deep Learning algorithm

iDS-TCE500-B/1550/H1
iDS-TCE900-B/1140/H1

Intersection Violation System

All-Rounder Traffic camera

Built-in camera, radar and light



Camera

- iDS-TCE507-BR 5MP 2/3" GMOS, cover 2 lanes
- iDS-TCE907-BR 9MP 1" GMOS, cover 3 lanes



Radar (Speed measurement)

- Central Frequency: 24.05 to 24.25 GHz
- Measurement Accuracy: -4 to 0 km/h
- Velocity Range: **10 to 300** km/h
- Double Trigger: Approaching direction, leaving direction, and both



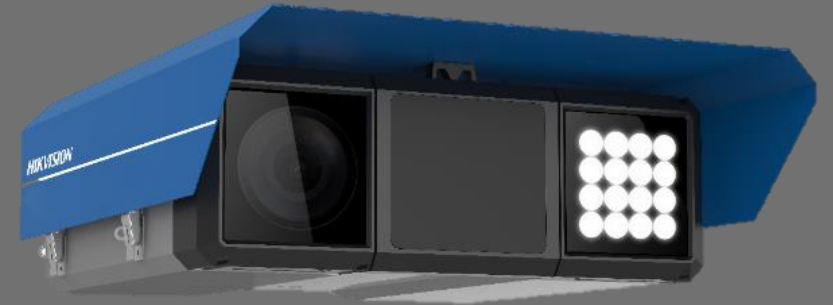
Supplement light

- Light Beads: 16
- Range: Up to **40** m (under 30m, get the better detection performance)



Functions

- Support **10** vehicle types, **11** vehicle color, **84** vehicle brands
- Support ANPR of **109** countries/regions, capture rate & recognize rate $\geq 98\%$
- **Intersection violation behavior capture**: Running the red light, wrong-way driving, illegal lane change, illegal U-turn, etc.
- Speed measurement
- Support **side mounting** with convenient installation and debug
- Support platform: **HikCentral Master**



Deep Learning algorithm

iDS-TCE507-BR
iDS-TCE907-BR

Intersection Violation System

Floorstanding All-Rounder Traffic Camera

Sample
released

All-in-one structure

- Embedding video, radar, supplemental light, and terminal server in one module.
- Covering 8 lanes

Easier installation

- Support roadside installation
- Assembled internal cabling allows faster start-up

04

03



01

Versatile functions

- Red light enforcement
- Speed detection
- Vehicle violations detection

02

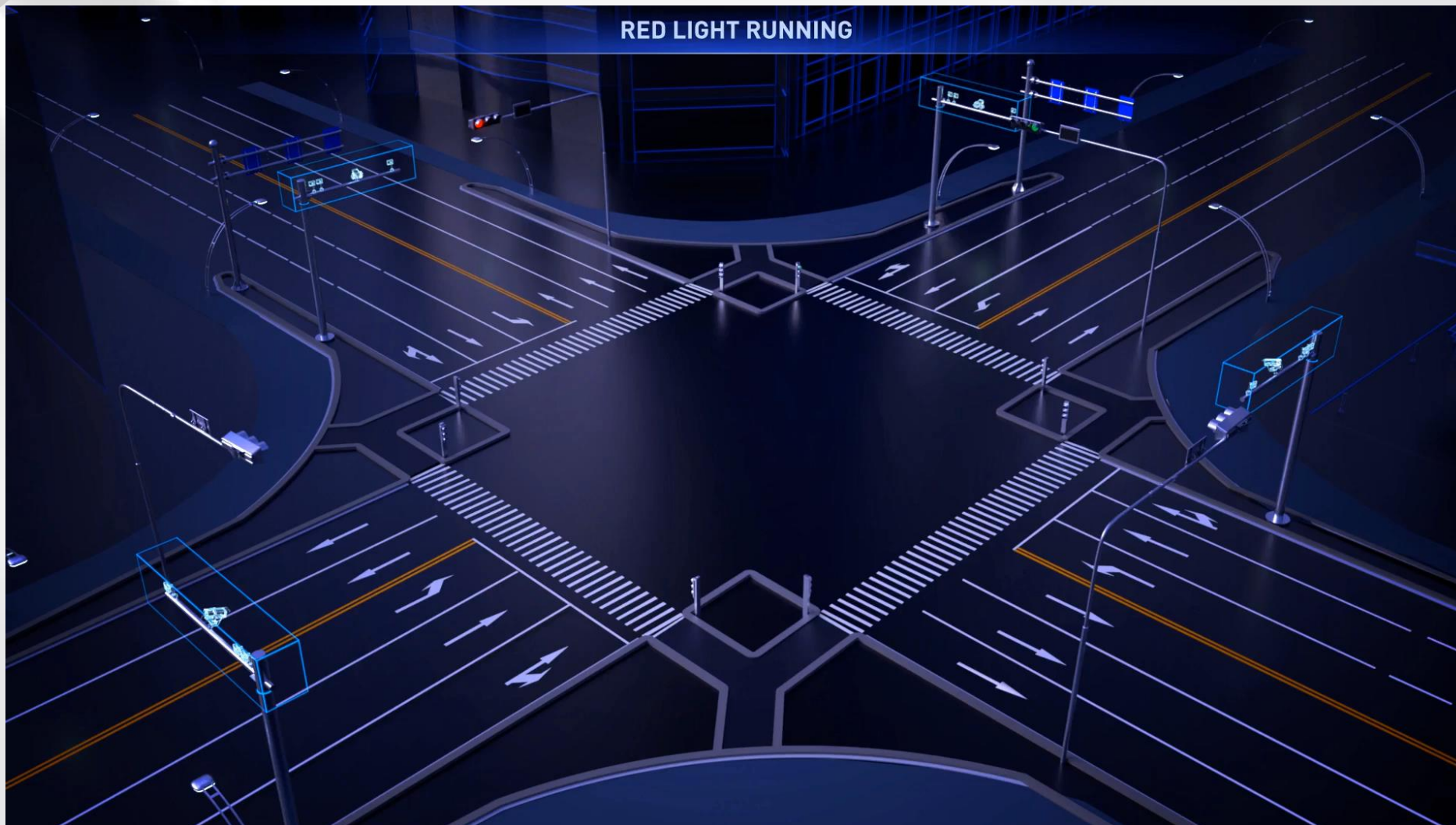
Slim body design

- Floorstanding unique product appearance
- Suitable for limited space

iDS-TCV99P-BIR

Note: The information here within the Upcoming part contains product planning, and is for internal use only. In need for editing authorization or information pass to clients, please consult your MKT and ensure information control

Intersection Violation System



- Red Light Running
- Wrong-Way Driving,
- Not Following The Directional Sign

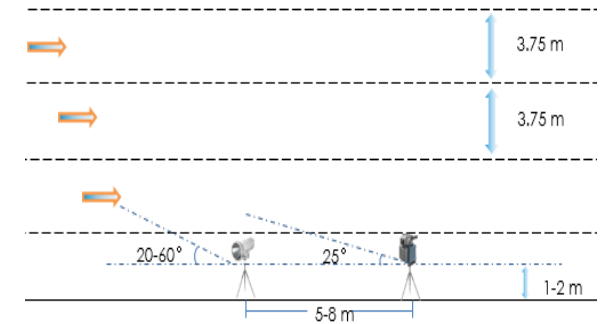
- Illegal Lane Change
- Weaving out of the lane
- Speeding Capture

Portable Speed Detector

The portable speed detector system equipment makes the law enforcement more flexible. It can measure speed, positions and record images for vehicles on up to three lanes of two-way traffic.



iDS-TDI900-A(C)/M



- Full HD 4096*2160 @ 25fps live video output, Cover **3 Lanes**
- **Multi-target radar**
- Deep Learning, LPR recognition accuracy $\geq 98\%$.
- Speed measurement range: 10~250 km/h
- Support **continuous capture of violation behaviors**
- Support composite multi-images of violation capture into one picture
- **720 P touch screen design with Android OS**
- 500 G SSD for capture image and video storage
- Built-in GPS/Wi-Fi/4G module optional
- Built-in Lithium battery, 8h working life

Smart Monitoring System

Deploy surveillance cameras in various general traffic scenarios and converge to the Control Center for central management, like urban road, bridge, highway, tunnels, etc.



DAY



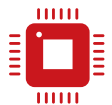
NIGHT

- Roadside mounted, Easy deployment, Low cost
- Large scenes monitoring(up to **6** lanes)
- Deep learning algorithm, support LPR
(**2 lanes**, Support ANPR of **109** countries/regions, capture rate & recognize rate $\geq$ **98%**)
- Support vehicle features (**color, type**) recognition
- 4 MP CMOS
- Dark-fighter technology: **0.001 Lux, 0.0005 Lux with IR**
- Motorized lens(8~32 mm, 4~11 mm) applied for road monitoring or Entrance & Exit scenarios



iDS-TCM403-B(I)/0832(0411)

Traffic Flow Detection System

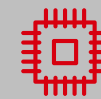


Pure Video Traffic Flow Detector



IDS-TCD403-BI/0832

- 4MP(1/1.8" CMOS)
- Built-in 3 IR lamps
- Dark fighter
- H.265
- IP67/IK10



Traffic Flow Detection Camera with Built-in Radar



IDS-TCD402-BR/12

- Support LPR
- The build-in radar can detect the speed of each vehicle, and mark it on the camera view in real time.
- 4MP CMOS camera
- **5 ~ 200 km/h** speed measurement
- Distance deviation ± 0.5 m, speed deviation ± 4 km/h
- Covering **Max. 200 m** distance.

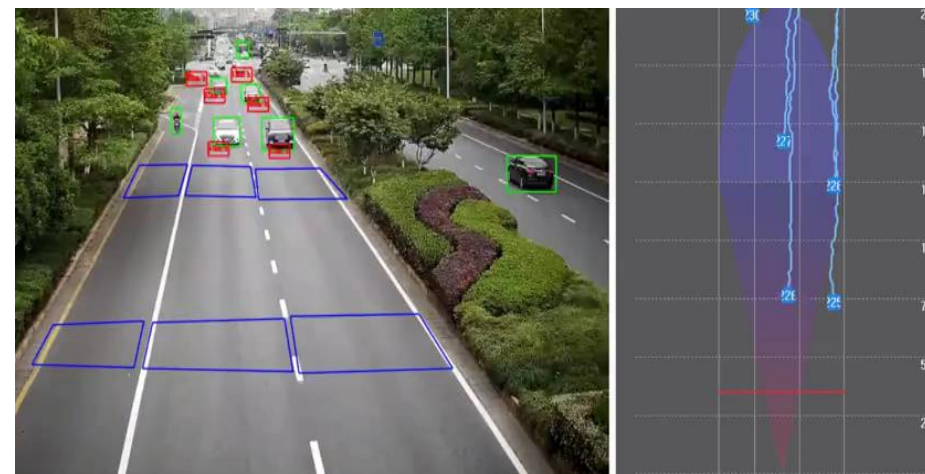
Traffic Flow Detection System



DS-TCD402-BR/12

Virtual Coils Row #1

Virtual Coils Row #2



When a vehicle enters virtual coils row #1, the system will **make a mark**. And when it enters row #2, the traffic flow data will **increase by 1**.

- Max. **4** lanes per device.
- Support **vehicle type recognition** (Large, Small, Motorcycle)
- Strong environmental adaptability: low light, stormy, foggy.

• **Rich detection features:**

lane queue length, lane traffic status (smooth, slow, jammed), vehicle type counting (large, medium, small), average vehicle speed, time headway, space headway, time occupancy, space occupancy.

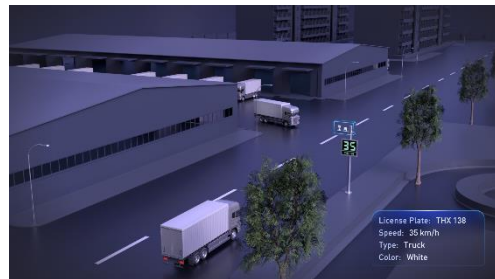
Vehicle Speed Detection System in Enclosed Areas

Working procedure of Speed Measurement System :

- 
-  Measuring vehicle speed accurately
 -  Capturing passing vehicles & recognizing vehicle features
 -  Showing the real-time speed and ANPR results on screen

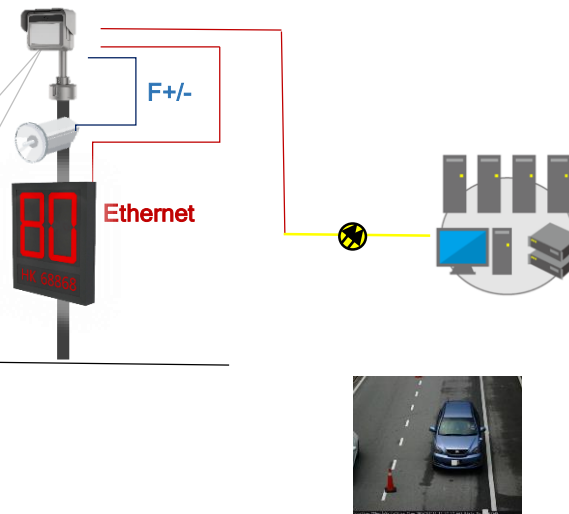
The value after the system establishment:

- Regulate drivers when driving in internal road
- **Reducing traffic accident rate & guarantee pedestrians and vehicles safety in the park**
- Reducing noise pollution and swirling dust



Reduce speed

capture zone



Radar-Assisted Enclosed Area Speed Measuring Traffic Camera

iDS-TCS402-B/CS/16

- ANPR recognition for multiple lanes
- Track each vehicle for speed measurement



Supplement Light

DS-TL2002C(I)

- Offer enough light for night environment



Outdoor LED Screen

DS-TVL224-8-5EY

- Outdoor LED guidance display
- Network communication connecting to software

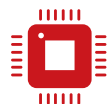


HikCentral Professional HikCentral Enterprise

*Customized

*Baseline

Auto Incident Detection System



Incident Detection Terminal Server



iDS-TSS300-C/04(4T)

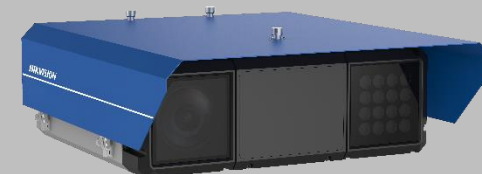


iDS-TSS500-C/16

- GPU architecture
- Support 4 /16 channel **4-MP** camera
- Support multiple **incidents detection**
- Supports multiple traffic parameters collection.



All-Rounder Incident Detection Camera



iDS-TCS907-CI(E)R

- 9MP GMOS sensor & 77GHz radar ;
- Support multi-target vehicle trajectory detection and target visualization, ranging 200 meters in the vertical direction;
- Applicable to various events detection and vehicle feature recognition

Auto Incident Detection System

Bi-Spectrum Incident Detection Traffic Camera

Coming
2021.12

Bi-Spectrum

- Thermal Imaging + visible light

Front-end camera detection

- Transfer the incident detection function from the back-end terminal to the front-end camera for identification

04

03



01

Versatile functions

- Traffic incidents and non-traffic incidents detection
- Traffic data collection
- Animal intrusion detection
- Fire detection

Various interfaces

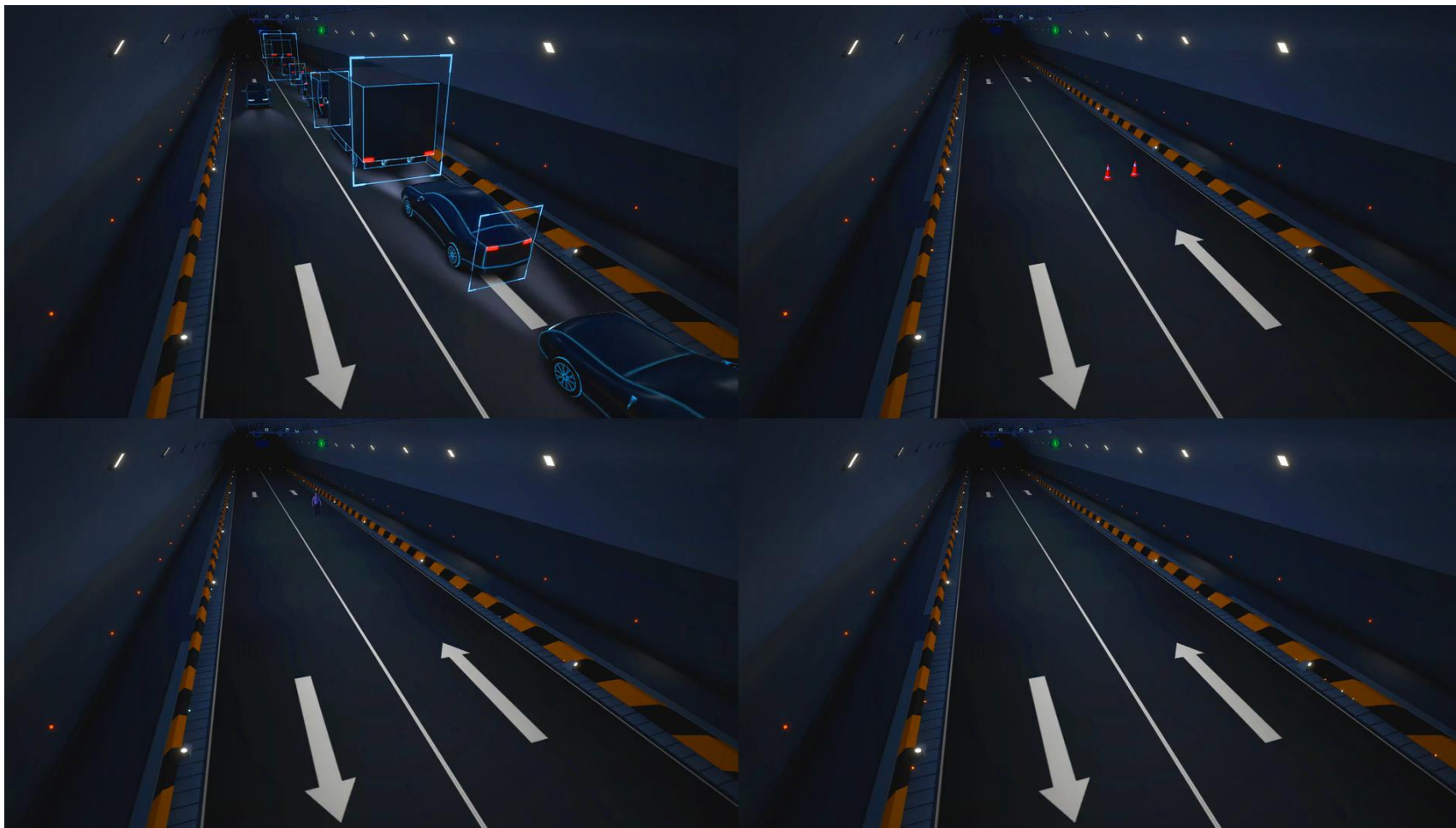
- PoE
- Fiber interface

02

iDS-TCS917-C

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Auto Incident Detection System



- Detects **smoke** in tunnels to promote safety and prevent injuries or damage
- Detects **fallen objects**, **pedestrians**, and **parking violations** to prevent collisions, accidents, and injuries
- Detects **illegal lane change** of vehicles which will be easy to cause traffic accidents

04 E&E and Parking

Entrance & Exit Management System

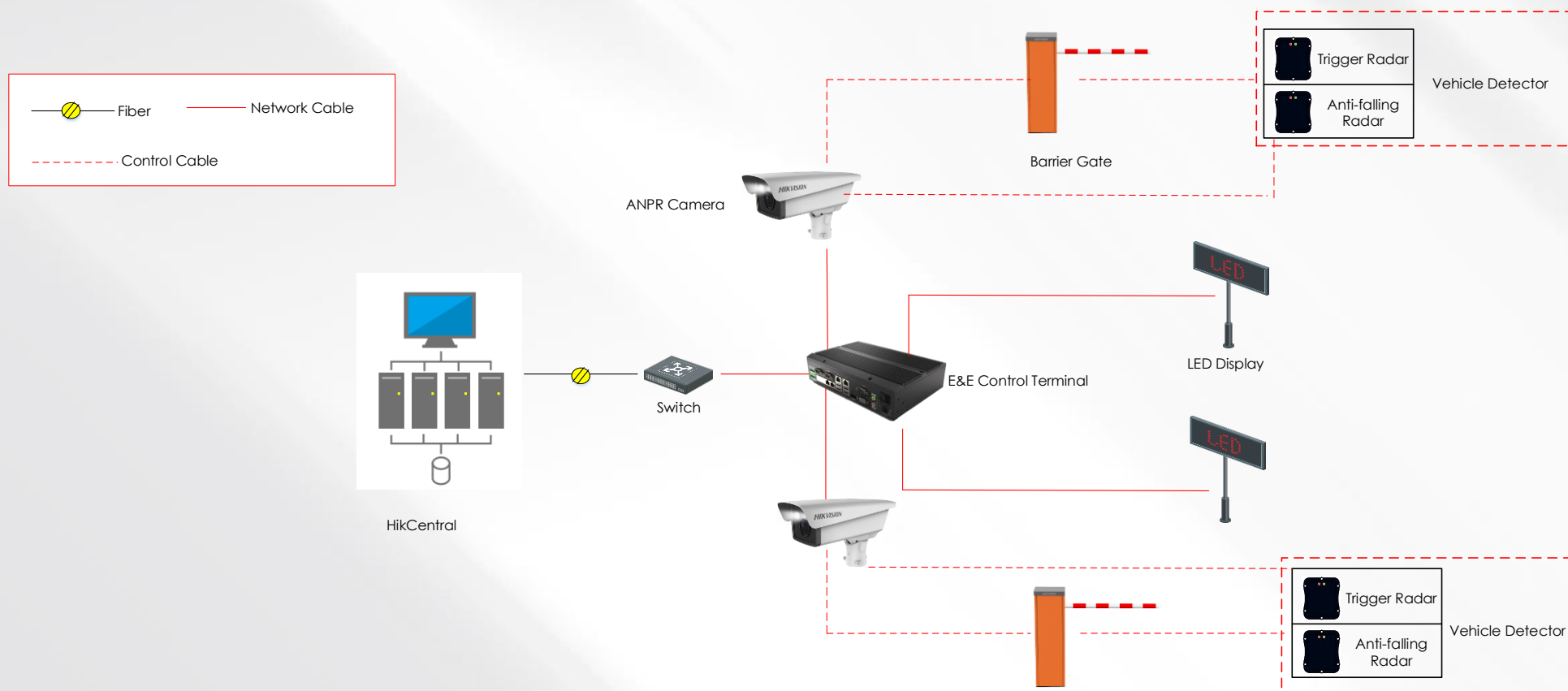
- Entrance & Exit Control Terminal
- Entrance & Exit Capture Unit
- Entrance & Exit Controller
- Entrance & Exit Barrier Gate

Parking Guidance System

- New Generation Parking Camera
- New Parking Guidance Indicator Light
- Parking Guidance Terminal
- Parking Controller
- Indoor Parking Guidance Screen
- On-street Parking Video Unit

Entrance & Exit Management System

The system help end users reduce administrative effort at the entrance & exit, and it offers quite high accuracy of access credentials via ticket controller or ANPR. Also, the payment results can be calculated automatically in various modes and multi-rules. Further more, all the reliable and high-definition evidence can be displayed for post-event investigation.



Entrance & Exit Management System



- Barrier gate control via I/O interface, number plate manual correction, number plate manual barrier control.
- Vehicles can be allowed to enter the parking lot via white list, and have a quick entry/exit with ANPR systems.



- Supports **multiple parking fee rules for temporary vehicles**, such as payment by parking duration, configured time period, etc.



- Vehicle's number plate & vehicle picture storage.
- You can **retrieve and view the passing vehicle information**, including license plate number, passing time, passing rule, resident and so on.



- **Black/white list management, alarm notification** (supports up to 5000 plate numbers each).
- black list alarm, illegal intrusion alarm, lack of available space alarm.



- **Available parking spaces counting.**
- Supports exporting vehicle passing record, vehicle register information, black list information report.

E&E Control Terminal

Built-in Windows System

- Multiple functions achieved by the software

01

SSD storage for system stability

02

4-ch 10 / 100 M Interface

03



04

Support Cascading

- Central Management up to 3 booths

05

Compatibility with new E&E controller, auto-payment machine & villa door station

06

Application

- Suitable for small-scale project, like small parking lot, hospital, office building and shopping center

DS-TPE104

E&E Capture Unit

NEW

Resolution

- 4MP
- 2688 × 1520@25 fps

ANPR Functions

- Deep-learning algorithm,
- 30,000 blacklists/whitelists
- 3.1~6mm motorized lens

Low Illumination

- Color: 0.002 Lux@(F1.2, AGC ON)
B/W: 0.0002 Lux@(F1.5, AGC ON)

Smart Functions

- ANPR, vehicle type recognition, vehicle brand recognition, vehicle color recognition

White-light / IR light

- Support switching

High Protection Level

- IP67
- IK10



DS-TCG405-E(12V/Poe)
DS-TCG405-E(220V)

E&E Barrier Gate

Different Length

Straight arm: 3 m / 4 m (extendible) /
6 m (extendible)
90°crank-arm: 2+2 m

01



03

Multiple anti-collision methods

Anti-fall coil / IR / bouncing back
when encountering obstacles

Lifting Speed

3 s / 6 s

02

04

Straight Arm/ Curved Arm / Telescopic Straight Arm

DS-TMG4BX

Note: "X" in model name means different models.

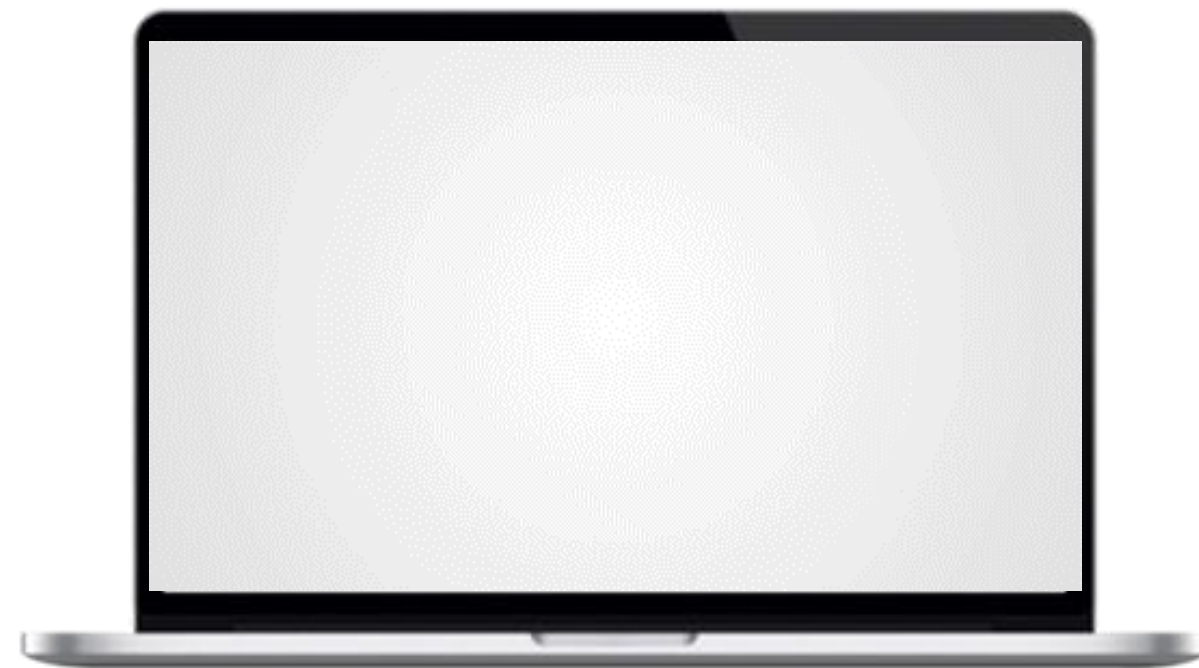
E&E Barrier Gate



Functions (with Radar):

- ◆ Manually controlled by remote controller.
- ◆ Open when vehicle is coming and automatically close once departure.
- ◆ Keep opening when multiple vehicles are continuous passing.
- ◆ Anti-fall function to guarantee pedestrian safety.

Promotion Video



E&E Barrier Gate

Different Length

- Straight arm: 3 m / 4 m (extensible)
- 90°crank-arm: 2+2 m

ANPR camera

- 4 MP, 2688 × 1520, CMOS, 1/1.8", 25fps, 3.1-6mm lens

LCD Screen

- 21.5 inch, 1080p, 1500cd/m²,
- Supports QR code and advertisement display

NEW



Multiple anti-collision methods

- Anti-fall coil / IR / bouncing back when encounter obstacles

Supplement Light

- 9 high-performance LEDs

Straight Arm/ Curved Arm /Fence Boom Pole

- DS-TMC407-E No arm
- DS-TMC407-EHL/R support 3 types

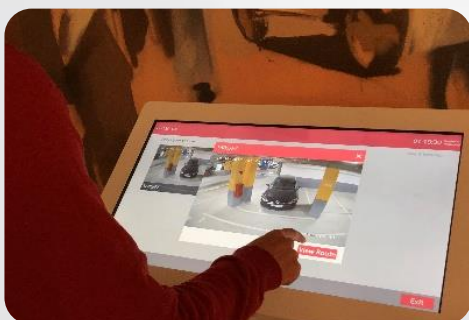
DS-TMC407-E
DS-TMC407-EHL/R

Parking Guidance System



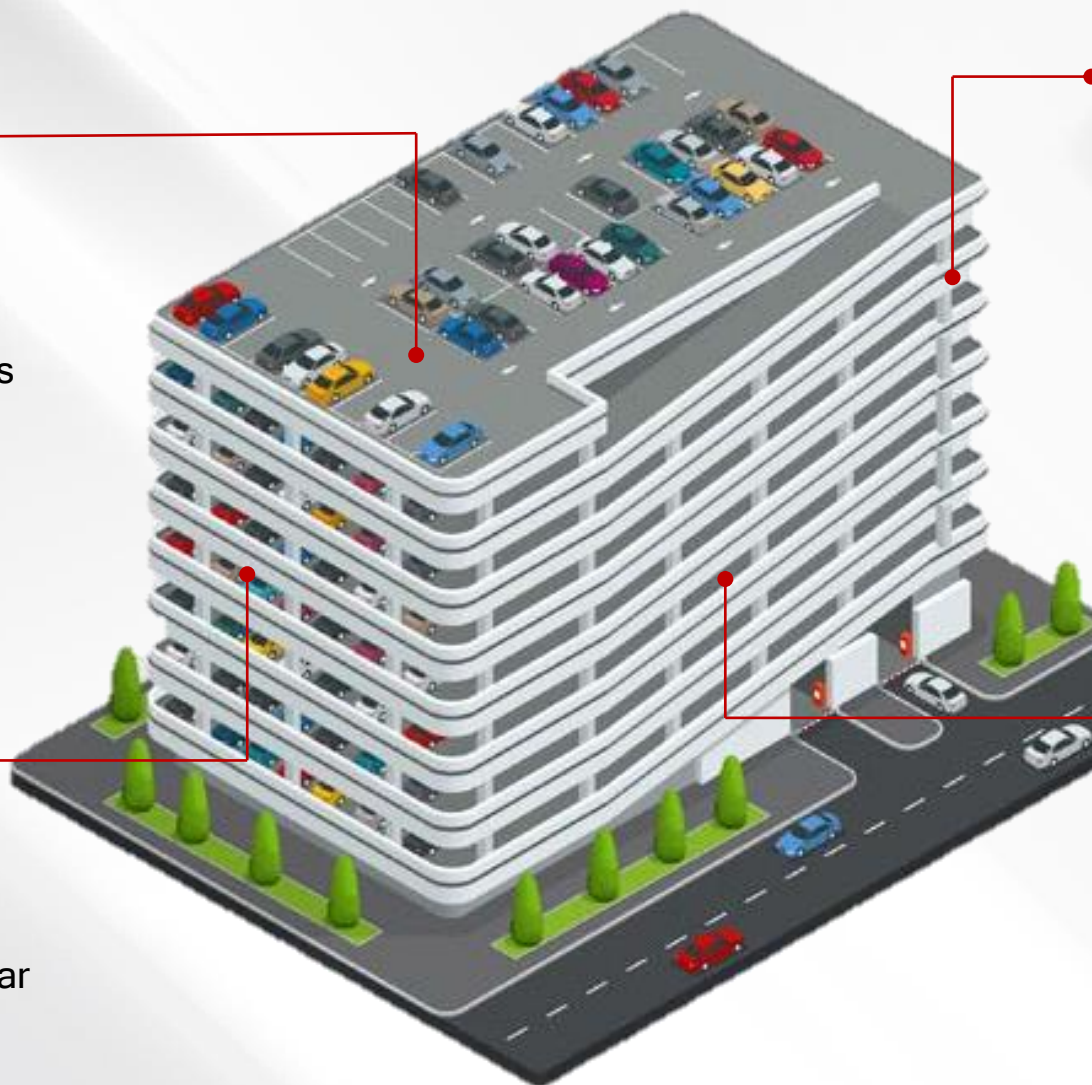
Parking Guidance

- Detect available parking spaces automatically
- Available spaces indicated by arrow and color



Car Location

- Query terminal locates user's car
- Provide shortest route



Parking Management

- Improve parking lot management efficiency

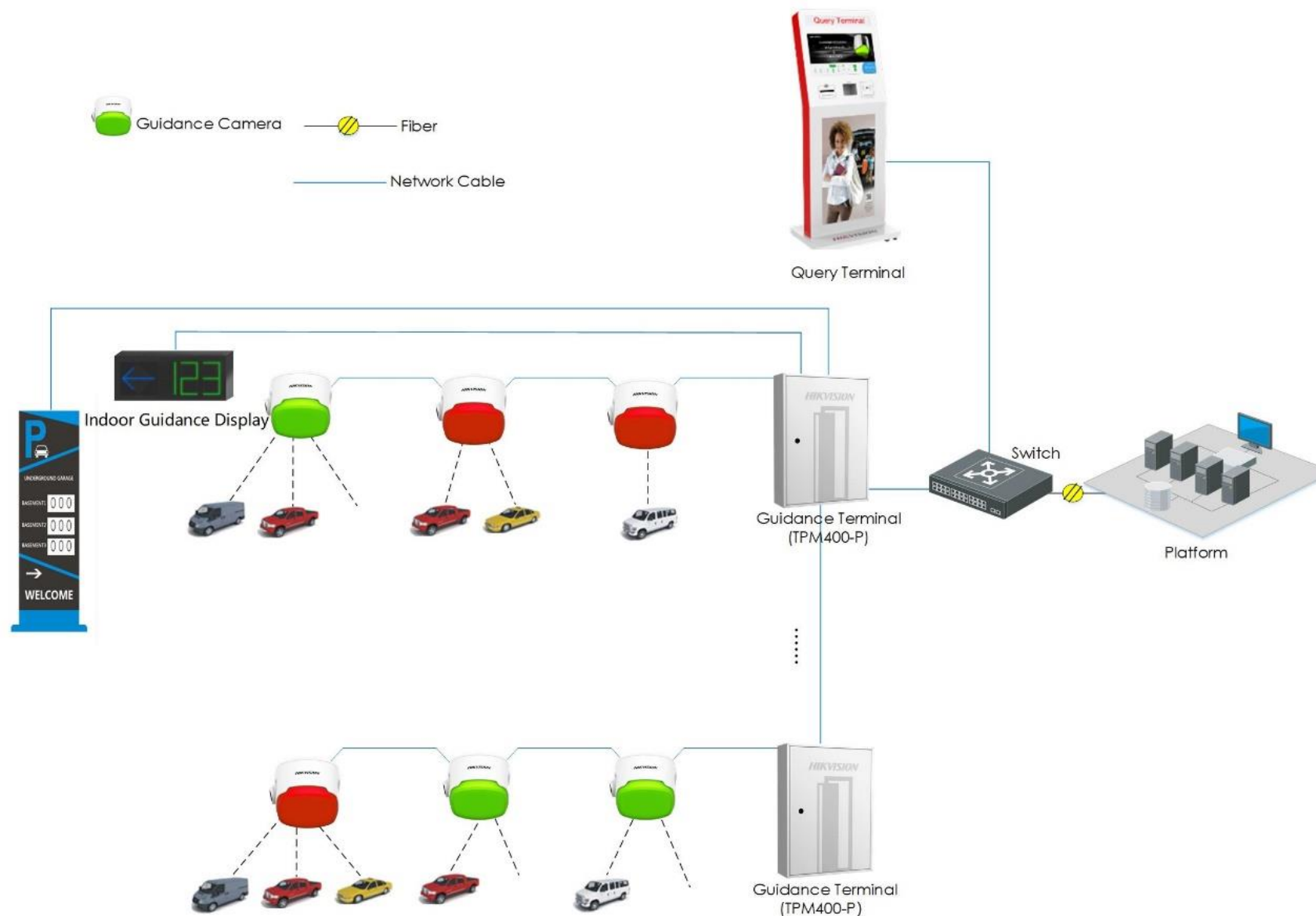


Video Surveillance

- Provide images and video for auto-related security events
- Robust parking log includes vehicle data, alarm info, more

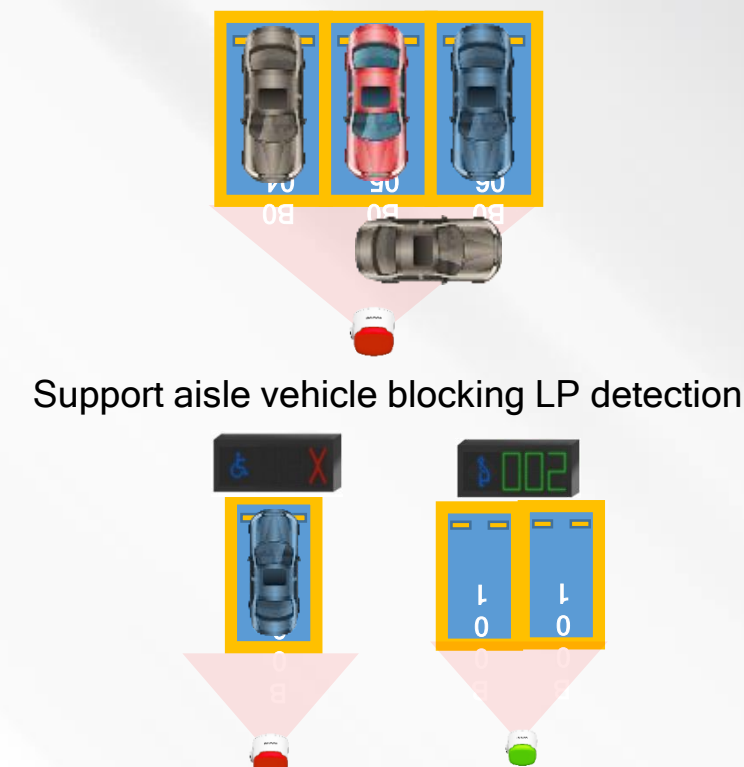
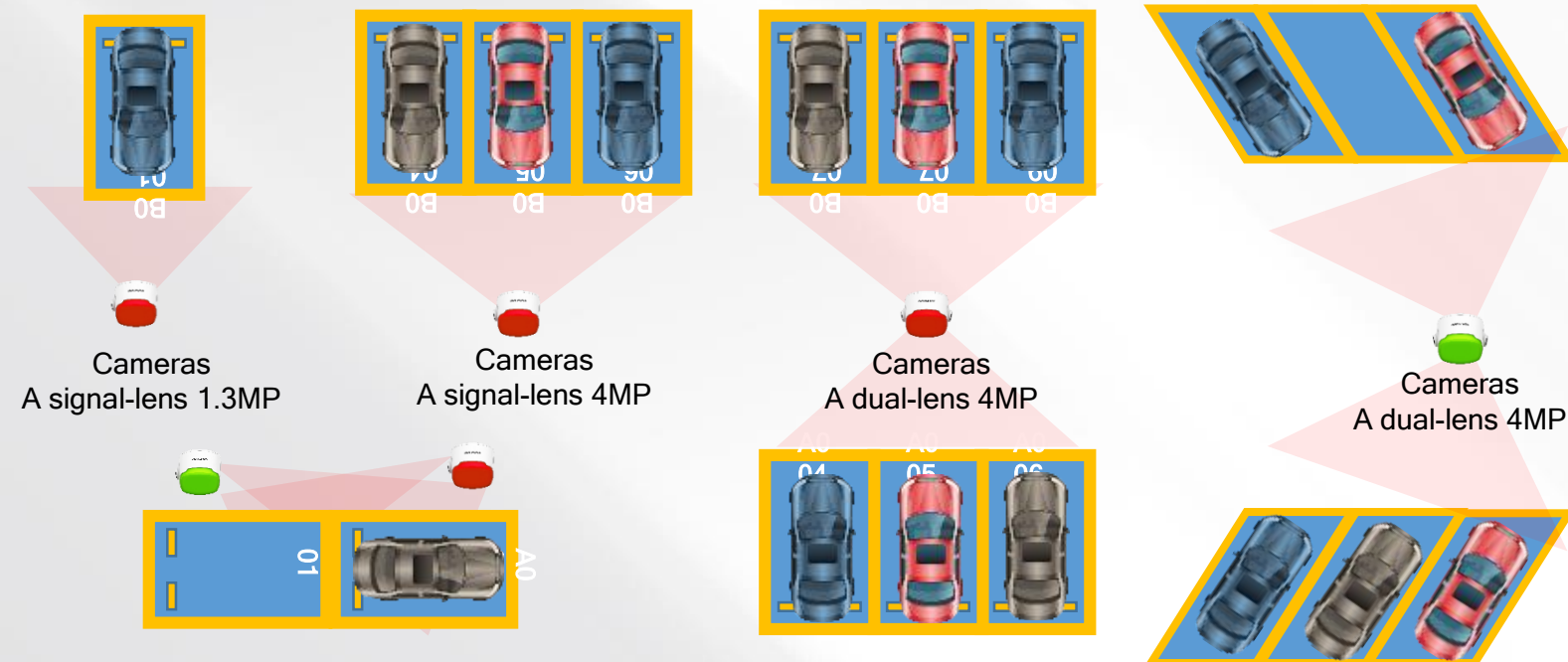
Parking Guidance System

Topology for Parking Guidance System



Parking Guidance System

New Generation Parking Camera DS-TCPX40 can cover all shapes of parking space, to make the surveillance and recognition more accurately. Also, it support to show the parking space information of disable users and pregnant users, etc. by guidance display and to support aisle vehicle blocking LP detection.



Support guidance display to show the parking space information of disable users and pregnant users, etc.

Type D Network Camera Product Map



DS-TCP140-B

- 1.3 MP, 1/2.7" Progressive Scan CMOS
- 2.8 / 4 mm optional
- Min. Illumination:
Color: 0.0165 Lux @ (F2.0, AGC ON)
B/W: 0.0092 Lux @ (F2.0, AGC ON)
- 1 MP single lens covers 1 - 2 parking space

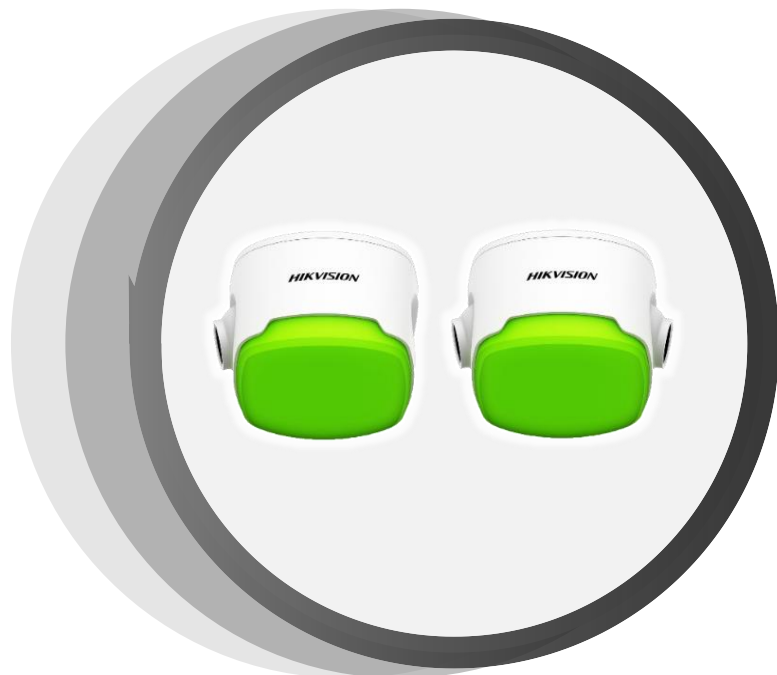
DS-TCP440-(D)B

- 4 MP, 1/3" Progressive Scan CMOS
- 2.8 / 4 mm optional, Dual lens support 2.8mm only
- Min. Illumination:
Color: 0.012 Lux @ (F2.0, AGC ON)
B/W: 0.00062 Lux @ (F2.0, AGC ON);
- 4 MP dual lens covers 1 - 6 parking space
- Single lens covers 1 - 3 parking space

DS-TCP440-(D)BH

- 4 MP, 1/1.8" Progressive Scan CMOS
- 2.8 / 4 mm optional, Dual lens support 2.8mm only
- Min. Illumination:
Color: 0.000048 Lux @ (F1.6, AGC ON)
B/W: 0.000022 Lux @ (F1.6, AGC ON)
- 4 MP dual lens covers 1 - 6 parking space
4 MP single lens covers 1 - 3 parking space

Parking Guidance Camera



DS-TCP440-B(2.8mm)
DS-TCP440-B(4mm)
DS-TCP440-DB(2.8mm)
DS-TCP440-DBH(2.8mm)
DS-TCP440-BH(2.8mm)
DS-TCP440-BH(4mm)



Deep Learning ANPR Algorithm

- Support more than 83 countries



Various Smart Functions

- Smart detection of the parking space status.
- Smart analysis of crossing over line, motion detection, etc.



Less Recognition Time

- Recognition in less than 1.5 seconds



High Recognition Accuracy

- ANPR (accuracy $\geq 99.5\%$),
- Detection of parking space status (accuracy $\geq 99.99\%$).



Integrated with Indicator

- Up to 6 colors. Red, Green, Yellow, Blue, Cyan, and Magenta colors can be indicated.

Parking Guidance Terminal

Centralized Management

- Connect up to **32** parking cameras
- Parking space statistics
- LED display control

Rich Interfaces

- 16 100M RJ45 interfaces
- 4 1000M RJ45 interfaces
- 8 HIK POE interfaces

01

**DS-TPM400-P**

03

Accessible by web browser, integrated SDK

04

IP address automatic allocation

05

Large Capacity Storage

- Six 3.5-inch HDD slots
- 32-ch 2Mbps streams

Indoor Parking LED Screen



DS-TVL121-3-5D
DS-TVL121-6-5D
DS-TVL121-9-5D

01 Upgraded Display

- Two-color, Single row

02 Real-time Display

- Dynamic arrows
- Remaining parking space number

03 Various Colors

- Red / Green / Yellow / BlueCyan / Magenta / White

04 Standard RS485/RJ45 Communication

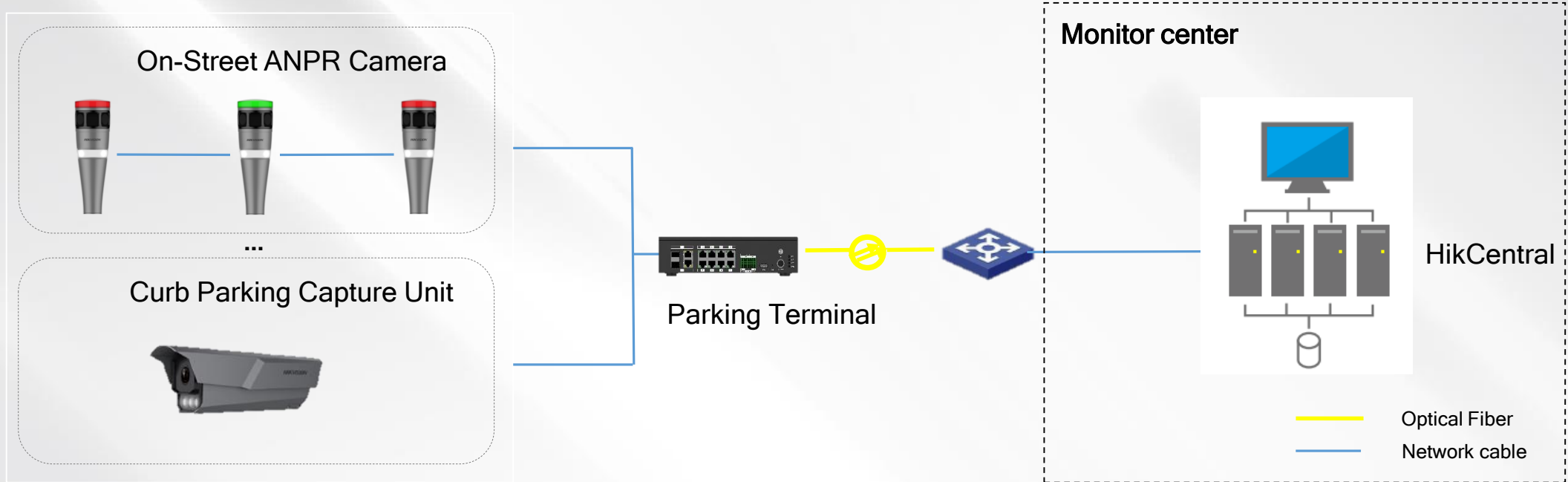
05 Easy Configuration and Maintenance

06 Multiple Application

- Support brightness adjustment
- Special customized icons for disabled person / charging / family parking

On-street Parking System

Topology



Solution of Curb Parking

Curb Parking
Capture Unit

DS-TCR803-B

Outdoor
Parking
Terminal

DS-TPE400(coming soon)



iDS-TCR803-B

Solution of Charging Pile

On-Street
ANPR Camera

DS-TCL400-DR

Outdoor
Parking
Terminal

DS-TPE400(coming soon)



DS-TCL400-DR

Roadside Parking Video Unit

01

Application Scenarios

- Roadside **H-type, I-type** parking space management

02

ANPR Functions

- 8MP, 1/1.8" CMOS
- 3840*2160@25fps
- 04-11/11-55 motorized vari-focal lens

03

Vertical parking spaces

- Single supports up to 4 parking spaces
- Dual supports 8 parking spaces

04

Smart Functions

- ANPR, capture and identification of vehicles entering and exiting the parking space

05

IR light

- Built-in LED supplement light

06

High Protection Level

- IP67
- IK10

NEW



iDS-TCR803-B(D)

Roadside Parking Video Unit

NEW



S-TCL400-DR

01

Application Scenarios

- Roadside **I-type** parking space management

02

Camera

- 4 MP, 2688*1520, 25fps 1/1.8" CMOS
- AI deep learning algorithm

03

Vertical parking spaces

- Support 1 parking space

04

Smart Functions

- ANPR, support vehicle drive-in and drive-out detection

05

Smart Indicator Light

- High-brightness energy-saving LED tube, support 7 colors display

06

Dual Network Interface

- Support camera hand-by-hand series connection

New Parking Video Unit

2021.11



IDS-TCR204-DH

2 MP

01

Application Scenarios

- Open-air parking lot, 4S shop parking space management

02

Camera

- 2MP, 1/1.8" CMOS
- 1920*1200@25fps
- 3.1-9mm motorized vari-focal lens

03

Vertical parking spaces

- Supports up to 50 parking spaces detection

04

Smart Functions

- Parking status detection, vehicle space detection, parking on line detection

05

IR light

- Built-in LED supplement light

06

High Protection Level

- IP67

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Thanks

International Product and Solution Center