

ADVANCED SECURITY, SAFER SOCIETY SMART SAFE CITY PROJECT SOLUTION



WITH HIKVISION AS YOUR INTEGRATION PARTNER, YOU WILL STAND ON A SOLID FOUNDATION.

RAPID GROWTH

Hikvision is the world's leading supplier of video surveillance products and solutions, featuring the industry's strongest R&D workforce and state-of-the-art manufacturing facilities. In just 15 years, Hikvision has developed from being a single-product provider to a complete product and solution provider and a global market leader.

GLOBAL REACH

- 33 Regional Subsidiaries
- 57% of Employees in International Business Center are locals



BROAD PORTFOLIO

Hikvision's success stories extend over a number of vertical markets. Each year, we add new successes to our list. Still a relatively young company, we continually conquer new applications, building excellence and intelligence into all we do.

Our successful vertical market applications around the world include:

- Smart buildings
- · City surveillance
- · Parking facilities
- Banking and finance
- Critical infrastructure
- Hotels, casinos, and resorts
- Retail centers and warehouses
- Police, military, and mobile law enforcement
- Education, transportation, healthcare and more!



FUTURE INNOVATION

Hikvision re-invests upwards of 7% of annual revenue into R&D. We hold over 600 copyrights (100+ increase from 2016) and 1,300 patents (400+ increase from 2016). Of our 20,000 employees, we employ over 8,000 engineers, of which over 2,000 are software engineers.

Hikvision's Research Institute conducts innovative research and development to keep us at the forefront of technology.

- Research topics: Perceptive Technology, Intelligent Analysis Technology, Big Data and Cloud Storage Technology, and Multimedia Technology.
- The largest R&D team in Artificial Intelligence in the security industry.
- · Sophisticated experience of video target detection, image segmentation, video structuring and video retrieval.
- Ranked No.1 in Scene Classification at ImageNet 2016 challenge and ranked top in the MOT Challenge Evaluation.

STRONG NAME

Hikvision continues to build close partnerships with distributors, system integrators and installers, as well as third-party technology partners. Today, Hikvision has over 350 technology partners globally.

ECOSYSTEM PARTNER PROGRAM WE SUPPORT YOU ALL THE WAY!



When joining this partner program, you will enjoy access to a wealth of technical and commercial resources, and we ensure that your solution enjoys strategic marketing through our communication channels. You will also get instant access to our entire sales organization. A vital part of our program is the streamlined online communication with our technical teams as well as the tools to plan the go-to-market activities.

PROGRAM TOOLS AND BENEFITS

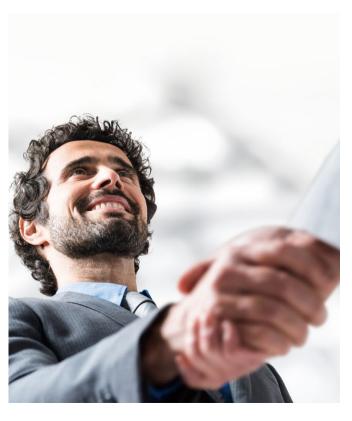
- **ISAPI** Hikvision unifies the Application Programming Interface for all products
- **HEOP** The Hikvision Embedded Open Platform enables you to download and run your applications directly in the cameras
- **Device Simulator** Simulate communication protocols for testing and development
- Integration Checker Tool Test your applications against the online integration checker tool
- **H-Certification** Certify your integration/application as proof of compatibility

SUPPORT

- SDK Training
- Integration Support
- Access to Integration Resources

SALES & MARKETING

- Dedicated Business Development Planning
- Networking Opportunities with the Hikvision Salesforce
- Co-marketing and Event Opportunities



SMART SAFE CITY PROJECTS SOLUTION

The Hikvision Safe City Solution provides sound, stable, and reliable municipal public security, and features a series of advanced technologies applied to various security subsystems in industries, central operations, & integrated security platforms. These integrated technologies enable rapid and effective responses to security needs and events. All devices, facilities, software, and services in the Safe City Solution reinforce municipal administration, improve people's lives, and boost substantial, long-term development.

Implementing the Safe City Solution, you will

- Effectively protect citizens and valuable property
- Increase criminal investigation efficiency and response time





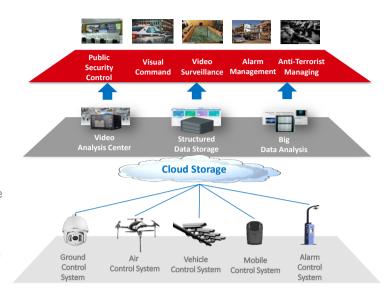
SAFE CITY SOLUTION COMPONENTS

INTELLIGENT **APPLICATION**

The uppermost layer contains various results exported from the storage and structuring center.

THREE-DIMENSIONAL **CONTROL SYSTEM**

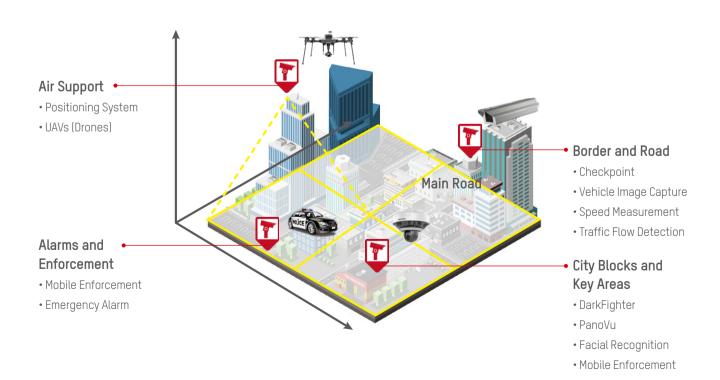
The ground layer shows the three-dimensional control system, which contains a series of front-end devices in different applicable scenes.



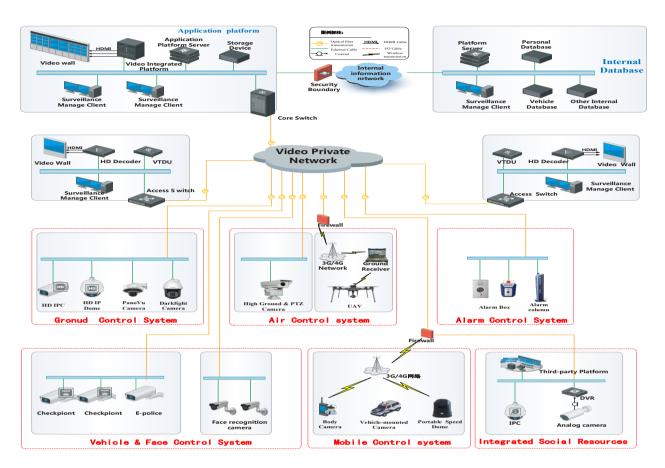
STORAGE & STRUCTURING CENTER

This middle layer shows the storage and structuring center, the storage can also be extended to the cloud if the physical storage cluster capacity is exceeded. After storing, the video analysis center can output valuable, structured data, and even produce big data storage and analysis reports.

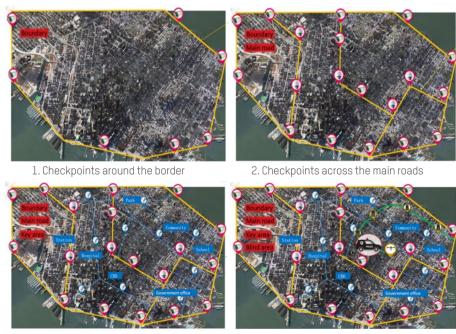
THREE-DIMENSIONAL CONTROL



SOLUTION ARCHITECTURE



WEAVING THE NETWORK TOGETHER



3. Video surveillance in key areas

4. Mobile surveillance fills in blind spots



TRAFFIC CONTROL

□ CHECKPOINTS

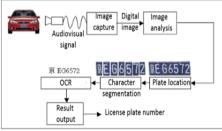
In Hikvision's Intelligent Transportation Solution, checkpoints provide key data on traffic flow and violations. These flexible tools create an intelligent network that weaves the whole roadmap together for maximum insight and administration of motorways.



High resolution CCD Traffic cameras can accurately capture speeding vehicles.



Various LED or strobe lights ensure clear images in nighttime monitoring.







- Each lane requires radar to detect vehicle
- Testing data is accurate and can be used for law enforcement

HD Video Surveillance

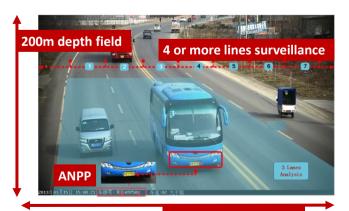
- View real-time HD video at a low bitrate to get traffic information
- Review video files to help Police track down persons of interest

Vehicle Capture

- Captures vehicle images and recognizes plate numbers
- Displays related info such as the date, time, plate number, etc.

MICRO-CHECKPOINT UNIT

The Micro-Checkpoint Unit (MCU) is a side-mounted camera with dedicated image processor and intelligent algorithm. This device integrates across the city and around suburbs to complement traditional checkpoint systems.



1-3 lines field analysis



MCU-2A3E-Z Micro-Checkpoint Unit

The MCU covers six lanes of traffic surveillance 200 meters deep with a well-developed intelligence program. Along with those six lanes, it captures license plates in three adjacent lanes for vehicles traveling both directions.

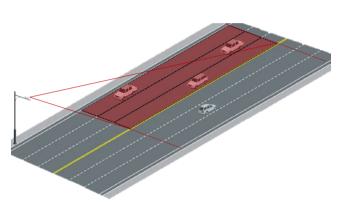
3 TRAFFIC FLOW COLLECTION





ins-tcn215 iDS-TCD200-A Video Vehicle detector

The Traffic Control system reports traffic flow, processes original data, and displays traffic status to the public – ultimately relieving traffic congestions.



Vehicle Counting

The following functions require adapting regionspecific standards:

- Average speed of vehicle
- · Length of queue
- Type of vehicle (2 types in baseline)
- Place and time
- Distance between two adjacent vehicles
- Interval between two adjacent vehicles
- Level of traffic jam(3 types) -- Clear, Slowed, or Jammed
- Real-time traffic data output

GROUND CONTROL ■ STREET MONITORING



Conventional camera - 23x





Ultra-low-light monitoring DarkFighter cameras

Conventional camera



DarkFighter camera - 23x

With industry-leading, ultra-low-light technology, the DarkFighter Camera Series offers a host of smart functions that make colored images possible in dim environments.

All DarkFighter Cameras feature Hikvision's SMART technologies, which combine intelligence, efficiency, and ease-of-use in modern video surveillance equipment.



PANORAMIC MONITORING









1 high performance server



Large outdoor area security Multi-imager panoramic

Hikvision's Multi-Imager Camera Series comes equipped with four or eight fixed imagers to provide a 180-degree or 360-degree panoramic horizontal view. A single HD PTZ camera can provide highly detailed images. These ultra-low-light DarkFighter Cameras are able to capture high quality colored images, even in dim light. It's a very effective tool for monitoring open and expansive areas like city surveillance, parking lots, airports, town square, stadiums, gymnasiums, and much more.

3 PERIMETER PROTECTION







Marine Surveillance



Perimeter protection Thermal cameras





Thermal radiation generates detection and analysis, far superior to optical cameras for objects hidden in darkness and for long-range surveillance.

Thermal cameras cover long distances and wide ranges. When an event occurs, it can be configured to send instant alarms to call for quick action, which expands surveillance capabilities. Thermal cameras pierce foggy environments and need no light at night.

4 VEHICLE INSPECTION





QUICK

Non-stop drive-through inspection

COMPLETE

Showing every detail in one picture

SEARCHABLE

Post-event investigation



Ground Control was designed especially for:

- Entries and exits of key areas of anti-terrorism such as airports, prisons, warehouses, oil depots, etc.
- Entries and exits of official areas such as government, army, military industrial enterprises, embassy, etc.
- Entries and exits of customs inspections and border checkpoints
- Entries and exits of parking lots

AIR CONTROL **POSITION SYSTEM**







Critical area security Positioning system cameras

Watches over the critical areas of cities.

Hikvision has a full series of 2 MP Positioning System Cameras to be used in critical area monitoring for city surveillance. With IP66 standard and advanced lighting protection, these cameras can be deployed in all-weather, outdoor environments for high definition monitoring – even in dim environments.

- Dual-lens Thermal Cameras: One thermal imaging lens for long range detection, one DarkFighter visual imaging lens for detailed footage recording.
- Laser PT Positioner: Full HD video quality, 36x optical zooming and up to 1 km detection range with laser light.



2 VEHICLE INSPECTION









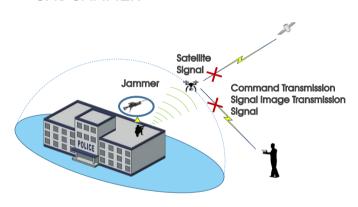
Transcend your vision unmanned aerial vehicle





The Falcon Series Industrial Unmanned Aerial Vehicles (UAV), is able to perform multiple-angle comprehensive 3D surveillance from a global perspective, greatly expanding the current surveillance coverage range and leading the security industry into 3D surveillance age.

3 UAV JAMMER





Air space defender UAV Jammer

The Hikvision UAV Jammer can be used to protect against unexpected drone invasions, cutting off the communication between the drone and remote controller by jamming the data link and positioner. The jammer can make the unexpected drone hover, land, or leave to ensure the security of low-altitude airspace.

MOBILE SURVEILLANCE **■ PUBLIC TRANSPORTATION**



Supervising driver behavior



Viewing passengers from various angles



Monitoring traffic outside of the vehicle



Monitoring the routes of a public transportation vehicle

Public transportation and its surroundings are vulnerable to terrorism or other forms of crime. Hikvision has a full range of products to help transit authorities deter, prevent abnormal activities and enable post-event investigation.

On-Board Vehicle Monitoring



MOBILE ENFORCEMENT

■ POLICE VEHICLES

Extreme weather can cause major traffic disasters. Peaceful public demonstrations can turn into unlawful events. Earthquakes, floods, and lightning storms can interrupt power and water supplies. The unpredictability of these incidents requires civic authority personnel to be mobile, nimble, and always ready to go. And the equipment has to be ready, too. Turn enforcement vehicles into temporary mobile monitoring stations and move gear to where it's most needed with our on-board systems.



On-Board PTZ Positioner



On-Board Video Recorder



LED Monitor Joystick Control Panel



All-in-One Surveillance Station

On-Board Recording

An All-in-One Surveillance System

Turn enforcement vehicles into temporary mobile monitoring stations.

TEMPORARY MONITORING

When permanent surveillance installations are not possible, mobile enforcement solutions have to fill in the gap. On the roads, at the public squares, in rural areas – wherever you need surveillance equipment to go, Hikvision's products will go.



Easy Wi-Fi Connection fo Operation





Easy Wi-Fi Connection





1080p Network Portable IR Speed Dome DS-MH61711



3 WEARABLE MONITORING

Rugged, wearable body cameras record activities of citizens and civil authorities as they happen. Their advanced technology, portability, and ease-of-use make them extremely effective companions for law enforcement. Equipped with GPS locators, you'll know where the emergency exists as it happens. These cameras build forensic evidence with safely stored data, and play back video footage clearly and accurately. Protect people and peacekeepers with wearable video recording devices.





Wearable devices capture incidents promptly for forensic evidence or establish communication with security centers for post-event handling.



After receiving an alarm, security centers can autoposition an incident location and dispatch the nearest team for support.



Police personnel can take immediate action at the incident location. The on-board monitoring accountability enforcement and abuse.



Body Camera

- DS-MH2111/32G(Wi-Fi)
- DS-MH2111/32G/GLF (4G/Wi-Fi)



Body Camera

- DS-MH2211/32G/64G (Wi-Fi)
- *Device continues operates when Changing battery



Body Camera Dock Station

DS-MH4172I

PORTABILITY

OPERABILITY

EMERGENCY ALARM CONTROL

The Emergency Alarm Products can be deployed across the city, provide the society with faster and more effective emergency services, and effectively deter criminals, brings a safer community.



When emergency happening, find a nearest Alarm Column and press SOS button.





Video Record Audio Communicate

The PTZ camera provides live video and records, the Policeman in the monitoring center can communicate with the man confirms the situation.





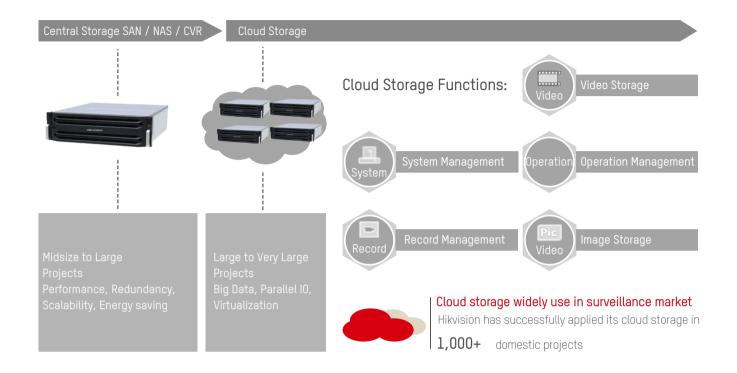


Dispatch Police

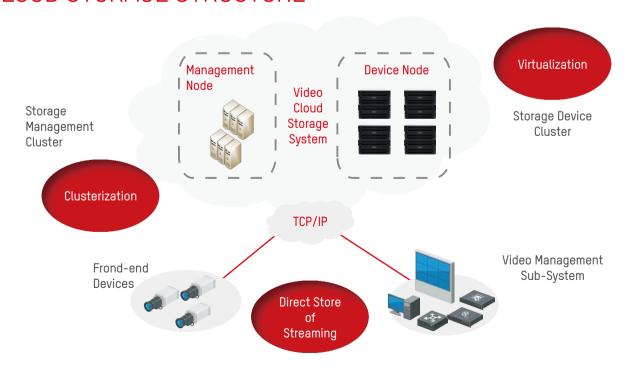
The Policeman in the monitoring center can broadcast warning via the Alarm Column to deter criminals, and meanwhile dispatch police to the location.



DATA STORAGE

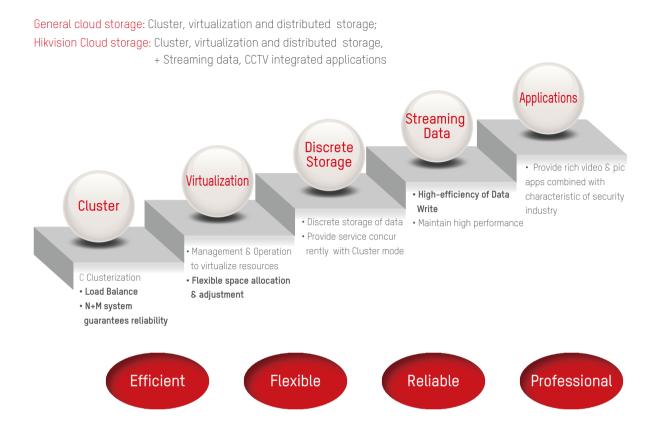


CLOUD STORAGE STRUCTURE



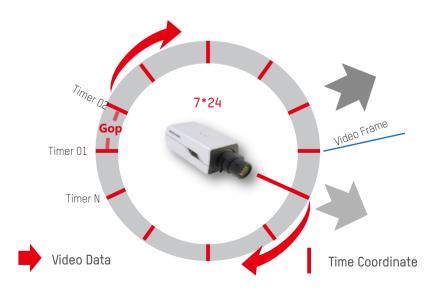


HIKVISION CLOUD STORAGE HIGHLIGHT



STREAMING STORAGE FOR HIGHER CCTV EFFICIENCY

Video data reads incessantly in the storage system based on the streaming character.



- Accurate playback by customer time
- Optimize storage model and improve storage efficiency
- No file fragments of streaming storage
- Data reading with quick response

INTELLIGENT VIDEO ANALYSIS

■ STRUCTURED DATA

FUNCTIONS

Video stream

- Standard H.264
- History Record
- Forwarded Stream





Human Structured

- Moving Direction
- · Wear Color
- · Moving Speed

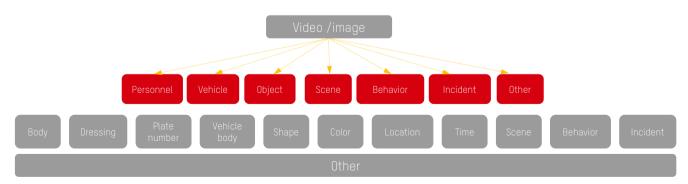


- Plate No.&Color
- Vehicle Color, Brand & Model
- Moving Direction & Speed



Un-structured data to structured data





[Video Structural] includes Target Detection, Feature Extraction, Object Recognition, Deep Learning and so on. It can be organized the text of recognition and understanding so that can be retrieved by computer and person.



HUMAN BODY DETECTION

■ Ground Control - Perimeter Protection



Fixed lens panoramic channel



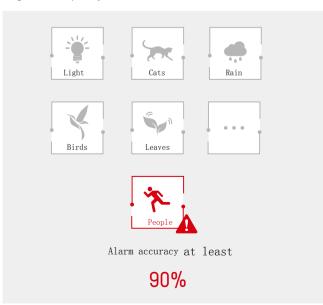
PanoVu PT Camera iDS-2PT9122IX-D/S

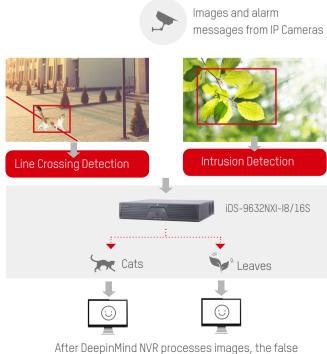


- Deep Learning
- 2MP Fixed + 2MP PTZ
- HD human picture capture
- Work with DeepInmind NVR to realize accurate human comparison.

■ Intrusion Alarm

Alarm accuracy reaches to over 90%. The iDS-9632NXI-I8/16S performs a secondary analysis on images, improving the alarm accuracy. Moreover, users can search recorded footage and find targets more quickly than other NVRs can.





alarms are filtered out!



3 FACE RECOGNITION

There are varies way to adopt Hikvision's Deep Learning technology, to realize high accurate face recognition.

In Safe City Project, one of the security requirement is to identify specific personnel and trigger post-event alarm. This can be used for locating a fugitive at large, finding loss people and etc.



iDS-2CD8426G0/F Indoor Dual-Lens Face Recognition Camera series



iDS-9632NXI-I8/4F Face Recognition NVR



DS-IE6308/16/32/64-E/FA Face Recognition Server

■ Blacklist Alarm







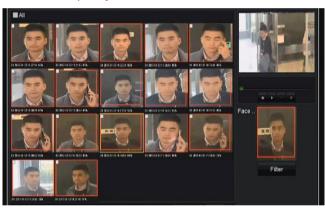
Entrance/Exit of subway station

Character: Fugitive

Application: Blacklist Alarm

Real-time Alarm: Pop up window, when the face in the blacklist (up to 30,000 Pics) shows up.

■ Search People by Face







Scenario: City block Character: Lost child

Application: Face Retrieval, Human Body Search

Human face modeling by the DeepInmind NVR(/4F), with Face retrieval function, it can find people(videos & images) with a certain degree of similarity to the face, and provide information such as location, time of appearance

■ Identify People by face





??% Similar **1V1** Comparison



Scenario: Identify suspect wearing a mask Character: suspect and a partial face evidence

Application: Face Retrieval

1V1 comparison function provide similarity for a list of face pictures with a target partial face picture (suspect face was partially blocked).

INTELLIGENT APPLICATION



Public Security Control



Visual Command



Video Surveillance



Anti-terrorism Managing





Alarm Management



E-map location	Quick investigation
Video Analysis	Quick Find Out
Comparative analysis	Case Management

Emergency Plan	Surveillance Deployment Management
Visible FOV	Visible Command



■ PRE-EVENT PREVENTION



Video surveillance

area resource control







vehicle data analysis

2 EVENT CONTROL



Clue collection



Real-time video tracking



Suspicion record



vehicle tracking

3 POST-EVENT INVESTIGATION



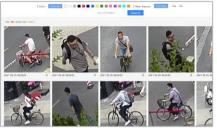




Face comparison

Face recognition

intelligent playback



Structured analysis

Vehicle comparison

Video record tracking

VIDEO-WALL DISPLAY UNIT LCD/DLP/LED

LCD:

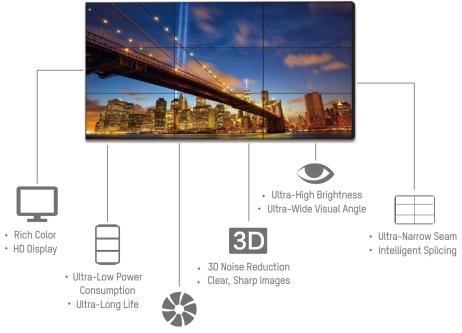
DS-2046NL-B, DS-2046NH-B, DS-2046NL-C, DS-2046NH-C, DS-2055NL-B, DS-2055NH-B

DLP:

DS-D1050EH, DS-D1060EH, DS-D1067EH, DS-D1080EH, DS-D1070EF

LED:

DS-D4012FI-EL, DS-D4014FI-GL, DS-D4018FI



• Intelligent Fan

• Environmentally Friendly and Quiet



Video Surveillance



DS-2CD4026FWD (-A)(P) DS-2CD4A/626FWD-IZ[H][S] DS-2CD4526FWD-IZ(H) DS-2CD4126FWD-IZ DS-2DF6223-AEL DS-2CD4B/D26FWD-IZ(S) DS-2CD4C26FWD-(A)(P) DarkFighter Low-Light Cameras



• Full HD 1080p images, up to 60 fps

• Up to 8-32 mm Motorized Vari-focal

with up to 500 feet (150 m) IR Arrays

· Advanced low-light performance

• High, 2 MP resolution

• Full Smart feature set

Lens with Smart Focus

• 140 dB WDR

DS-2CD4025FWD-(A)(P) DS-2CD4A/625FWD-IZ(H)(S) DS-2CD4525FWD-IZ (H) DS-2CD4125FWD-IZ DS-2DF6236V-AEL DS-2DF8236IV-AEL(W) LightFighter WDR Cameras

- Ultra-low-light Performance
- Full HD 1080p, up to 60 fps
- 120 dB WDR
- Low-light HD Lens
- · Full Smart feature set



DS-2CD41/665F-IZ DS-2CD45/A65F-IZ (H) DS-2CD4065F-(A)(P) 6 MP Ultra HD Performance Cameras



DS-2CD4085FWD-AP DS-2CD4185FWD-IZ DS-2CD4585FWD-IZH DS-2CD4A85FWD-IZSH DS-2CD4685FWD-IZHS 4K Ultra HD Performance Cameras

- 3072 x 2048 Maximum resolution
- · Full Smart feature set
- · HD Lens with consistent aperture
- Super DWDR

- High, 4096 x 2160 resolution
- · Full Smart feature set
- 2.8-12 mm Motorized VF lens
- Up to 230 feet (70 m) IR
- · Audio / alarm IO



DS-2DP1636(Z)-D DS-2DP0818Z-D DS-2CD6986CM-(A)(H) Large Outdoor Area Security Multi-Imager Panoramic



DS-2TD2035/-HZ DS-2TD4035D DS-2TD2235D DS-2TD6034-40 DS-2TD6035D Perimeter Protection Thermal Cameras

- DarkFighter imaging sensors
- · On-board stitching for panoramic view
- 8MP or 16MP high resolution
- IP66
- · True WDR

- 384 x 288 Resolution
- VOX detector
- · Single or dual lens
- 9.5 / 25 / 40 / 75mm lenses
- · Fire- and person-detection

PRODUCT SHOWCASE



DS-2CD6986CM-(A)(H) DS-2DY9185-AI2 DS-2DY9187-AI8 DS-2DY9188-AI2(-AIA) DS-2DY5223IW-AE(-DM) Critical Area Security Positioning System Cameras PaneVu



DS-2DP1636-D DS-2DP0818/1636Z-D DS-2CD6986CM-(A)(H) Large Outdoor Area Security Multi-Imager Panoramic

- Ultra-low-light illumination
- · Wide range of movement
- True day & night, WDR, 3D DNP, and Defogging
- 3D intelligent positioning
- · Self-cleaning wipers

- DarkFighter imaging sensors
- · On-board stitching for panoramic view
- 8 MP or 16 MP high resolution
- IP66
- · True WDR



iDS-2CD8426G0/F Indoor Dual-Lens Face Recognition Camera series



DS-96128/256NI-I16/I24(/H) Embedded H.265+ 4K Super NVR

- 1/2.8" Progressive Scan CMOS
- 1920 × 1080 @ 30fps
- 120dB WDR
- · H.265+, H.265, H.264+, H.264
- 5 video streams
- · Face recognition
- IR range up to 10 m

- 576/768Mbps Bit Rate input Max (up to 128/256 IP cameras Input)
- Up to 12MP resolution recording
- Support H.265+/H.265/H.264+/H.264 video formats
- · 20-ch(/H,68-ch) 1080P decoding capability
- · HDMI output at up to 4K resolution
- Up to 16/24 SATA interfaces, up to 8 TB for each
- HDD,4 Gigabit optical interfaces
- · Redundant power supply to ensure system stability
- HDD hot swapping with RAID 0/1/5/6/10
- · One LCD screen optional, mini SAS optional



DS-9616/32/64NI-I8/I16 Embedded H.265+ 4K 2U/3U NVR



iDS-9632NXI-I8/8S(16S) DeepinMind NVR

- 256/320 Mbps Bit Rate Input Max(up to 16/32/64-ch IP cameras
- · Third-party network cameras supported
- Up to 12MP resolution recording
- Support H.265+/H.265/H.264+/MPEG4 video formats
- · 2-ch HDMI and 2-ch VGA outputs interfaces provided,
- 1 HDMI output at up to 4K resolution
- 8/16 SATA, HDD hot swapping, 1 eSATA, 2 USB2.0, 1 USB3.0
- Support RAIDO, 1, 5, 6, 10
- · Hot spare working mode

- · Maximum 512/768 Mbps bitrate Input
- · Supports 3rd party network cameras
- · Up to 12 MP resolution recording
- · 4k HDMI output, 1080p VGA output
- · Supports H.264/H.264+, H.265 video formats
- Supports RAID 0, 1, 5, 6, 10, 50, 60, and JBOD
- · Supports redundant power supply
- 116: 16x SATA; 124: 24x SATA





DS-IE63 08/16/32/64-E/FA Face Recognition Server

- Powerful GPU
- · Low-power dissipation
- Deep Learning algorithm achieves higher accuracy
- 8 / 16 / 32 / 64 channels
- Up to 80 pic/sec. modeling ability
- Up to 32 couples of 1V1 face comparison



DS-MH2111 **Body Camera**

- · Wi-Fi/3G /4G/GPS/Integrate into iVMS
- H.264
- 1080P@60fps, 720P@120fps
- · 16MP image capture
- 4400mAh fixed battery
- 2-inch LCD screen/Intercom/Emergency linkage button/IR



DS-MH4172I **Body Camera Dock** Station

- OS: Window10 system
- · External LCD screen for operation
- · Docking port: 8units
- Storage: 2T/4T/8T(Optional)
- · Indicator: power, data
- Interface: Wi-Fi /RJ45/USB/HDMI/VGA/Rs232/Audio

Mobile Enforcement



DS-MH61711 Portable PTZ Dome

- 2 MP Full HD1080p high resolution
- · 30X optical zoom, 12X digital zoom
- H.264+ optimized codec to reduce storage
- Dual SD card slots, up to 128 GB for each card
- Supports Wi-Fi, 3G, 4G wireless connection
- · Interchangeable Lithium battery, up to 6-hour operating time
- Alarm I/O, RS232, RS485 interfaces
- Supports Bluetooth connection
- · IP66 weather-proof protection
- Up to 195 feet (60m) IR range
- · Powerful magnetic base for vehicle-roof mounting
- iVMS-4500 client for remote operation



DS-MH2211 **Body Camera**

- · Wi-Fi/GPS
- H.265(Customized)/H.264
- 1080P@30fps, 720P@30fps
- · 5MP image capture
- 1650mAh removable battery
- · Replace battery without shutdown
- 2-inch LCD screen/G-sensor/IR
- IP65

UAV



UAV-MX4080BP-A1 UAV-MX4080BP-A2 Transcend Your Vision Quad-Rotor Uav Bundle

- 4-rotor UAV with 2 battery packs and 1 charger
- · Handheld ground station, 1 big casing, 1 small casing
- 2MP, DarkFighter,23x optical camera

PRODUCT SHOWCASE



UAV-D04JAI

Air Space Defender UAV Jammer

- · Jammer with antenna, 1x battery and 1x charger
- GPS/GLONASS/Galileo L1, BeiDou B1, 2.4G
- Maximum 6W transmission power (Adjustable, Full power, 1/2
- Operation mode: abduction mode and deportation mode
- Endurance time: ≥ 1.5 h (Fully charged)
- Effective distance up to 1200m
- Operating Temperature: -20°C to 55°C (-4°F to 131°F)



MV-PD-03-0001-01 MV-PD-03-0001-02 Under Vehicle Screen System Fixed Version

- · 2 x Photoelectric / Coil Trigger Module
- · Speed Matching Module
- LED Module
- · Vehicle Chassis Scans Module
- Control Cabinet
- · Image Manager Software
- · Special Cable



XXXXX

Under Vehicle Screen System Portable Version

- No installation
- · Compact design, easy transportation
- · Chassis image displayed and stored with license plate
- IP66 protection level, 10t load-bearing
- F0V≥168°
- · Suitable for meeting place, temporary checkpoint
- L56*W56*H9(CM), 25KG



VCU-7012-ITIR 3 MP Traffic Video Unit

- 3MP 1/1.8" Progressive Scan CCD
- Up to 2048 x 1536 @ 25fps for real-time output
- Satisfies the capture for one lane or two lanes and the forward or backward capture
- Support speed detection (with external speed measuring radar)
- Megapixels optical lens
- Support abundant ISP image processing techniques, such as 3D DNR, front light and backlight processing, smear suppression,
- · License plate recognition



VCU-A014-ITIR 7 MP Traffic Video Unit

- 7MP 1" Progressive Scan CCD
- Up to 3392 x 2008 @ 25fps for real-time output
- · Satisfies the capture for three lanes and the backward capture
- Support speed detection (with external speed measuring radar)
- Megapixels optical lens
- · Support abundant ISP image processing techniques, such as 3D DNR, front light and backlight processing, smear suppression, LTM (Local Tone Mapping) etc.
- · License plate recognition



MCU-2A3E-Z MCII

- · 2MP 1/1.8"CMOS
- 2048*1536@25fps
- · Hanging 3 LED light for fill-in light on license
- Low illumination: 0.0001 lux @(F1.2,AGC ON)
- Good image quality in spite of high light density
- 6 lanes monitoring and 3 lanes license plate capture





ECU-7044-IT 3 MP Traffic Video Unit

- 3MP 1/1.8" Progressive Scan CCD
- Up to 2048 x 1536 @ 25fps for real-time output
- · Satisfies the capture for one lane or two lanes and the backward
- · Support illegal behaviors including Running Red Light, Illegal Lane Change, Driving on Lane Line, Reverse Driving and Driving Against Guidance
- · Megapixels optical lens
- · Two detection ways of traffic light: IO signal or traffic light signal detector
- Support abundant ISP image processing techniques, such as 3D DNR, front light and backlight processing, smear suppression,
- · License plate recognition



iDS-TCD215 Traffic Flow Unit

- 2MP 1/1.8" Progressive Scan CMOS HD Camera
- Up to 1920×1080 @ 30 fps for real-time output
- · ROI and SVC are adopted with high compression ratio, flexible disposure and low bitrate
- · Network lightening protection and anti-surge
- 3D digital noise reduction
- · Support detection of traffic flow, average vehicle speed, distance between cars of vertical and horizontal, time & space occupancy, lane queue length, vehicle type, lane running state



iDS-2VS225-F836 Traffic PTZ Camera

- 2MP 1/1.9" progressive scan CMOS
- Up to 1920×1080 resolution
- 36× optical zoom; focal length 5.7 mm to 205 mm
- 16× digital zoom
- · Min. illumination:
- · Color: 0.002Lux @(F1.5, AGC 0N)
- B/W: 0.0002Lux @(F1.5, AGC ON)
- · OLux with IR
- IR cut filter with auto switch
- 3D DNR, EIS, HLC, BLC, low bitrate, 120 dB WDR
- · GPS/BDS positioning module



ECU-A046-IT 7 MP Traffic Video Unit

- 7MP 1" Progressive Scan CCD
- Up to 3392 x 2008 @ 25fps for real-time output
- Satisfies the capture for three lanes and the backward capture
- · Support illegal behaviors including Running Red Light, Illegal Lane Change, Driving on Lane Line, Reverse Driving and Driving Against Guidance
- · Megapixels optical lens
- Two detection ways of traffic light: IO signal or traffic light signal
- Support abundant ISP image processing techniques, such as 3D DNR, front light and backlight processing, smear suppression,
- · License plate recognition



iDS-TCD200-A/1140 DeepInView Traffic Flow Unit

- · Hikvision Deep Learning Technology based
- 2MP 1/1.8" Progressive Scan CMOS HD Camera
- Up to 1920 × 1080 @ 30 fps for real-time output
- ROI and SVC are adopted with high compression ratio, flexible disposure and low bitrate
- · Network lightening protection and anti-surge
- · Support detection of traffic flow, average vehicle speed, distance between cars of vertical and horizontal, time & space occupancy, lane queue length, vehicle type, lane running state and congestion status



DS-TL2000A(I)-L1 Supplemental LED Light

- · 16 LED lamp beads
- · White LED or Infrared LED
- Effective distance: 16~25m
- · Angle of light: 10°
- Trigger Mode: TTL level (Switch trigger optional)
- · Coverage: 1 road lane



DS-TL2002A(I) Supplemental LED Light



DS-TL2002C(I) Supplemental LED Light

- 28 LED lamp beads
- · White LED or Infrared LED
- Effective distance: 16~25m
- Angle of light: 10°
- Trigger Mode: TTL level (Switch trigger optional)
- · Coverage: 1.5 road lane

- 28 LED lamp beads
- White LED or 850nm LED (Infrared)
- Effective distance: 16~25m
- Angle of light: 40°
- Trigger Mode: TTL level (Switch trigger optional)
- · Coverage: 1.5 road lane



SL-1211-2I(850nm) Infrared Flash Supplemental Light



SL-1211-2 White Flash Supplemental Light

- · Single lane
- Compensated Effective Distance: 18 25 m
- Flash Frequency: Up to 6 times/second
- Recycle Time: < 67 ms
- · Trigger Mode: TTL level and switch trigger
- Wavelength: 850 nm

- · Single lane
- Compensated Effective Distance: 16 25 m
- · Flash Energy: 200J
- Flash Frequency: Up to 6 times/second
- Recycle Time: < 67 ms
- Trigger Mode: TTL level and switch trigger
- Optical Grating: Supported (Reducing light pollution effectively)



CSR-IN(P) High-precision Speed Inspection Radar



CSR-IM Multi-lane Speed Inspection Radar

- · High-precision narrow band radar
- Velocity range: 10~250 km/h
- Measurement accuracy: -4~0 km/h
- · Support vehicle front 8 rear triggering
- Support direction information and vehicle length information
- Support multi-object detection, covering 1-3 road lanes
- Velocity range: 2~250 km/h
- Measurement accuracy: -4~0km/H
- · Support vehicle front & rear triggering
- Support direction information





TLD-2016-6 Traffic Signal Light Detector



DS-TP50-12DT Terminal Server

- 16-ch signal light AC signal interface
- · 6 RS485 output
- 1 DC 5V output
- 5 pin switch to set band rate, address and upload method
- 16-ch lights to show status

- Two BNC input interfaces, 2 BNC loop-out interfaces
- Four 3.5"/2.5" SATA HDD interfaces
- Eight 10/100M Ethernet interfaces
- Save recorded files on locked hard disk. The saved period is determined by stream bitrate and hard disk capacity.
- Text overlay and picture composition



iDS-TP40-16B DeepInMind Traffic Management Server

Network Storage



DS-A81016S Single-Controller 16 HDD Slots Network Storage

- Hikvision Deep Learning technology Based
- · Support auto detecting 16-ch 3MP IP Camera Event Detection, Event Capture, Traffic Data Collection
- Event Detection Type: Traffic Jam, Parking, Over lane line, Turn Round, Reverse Driving, Pedestrian, Throw Object, Illegal Lane
- Traffic Data Collection Type: Traffic Flow, Speed, Spachead way, Time headway, Lane-time occupied rate, Lane-space occupied rate, Queuing Length, Traffic Traveling Status

- IP-SAN and Central video recording support
- Up to 16/24 HDDs, with up to 6 TB capacity on each disk and cascading extension support
- RAID 0, 1, 3, 5, 10, 50 and HDD hot-swapping supported
- Modularization and redundant power design for high reliability



DS-A82024D

Double-Controller 24 HDD Slots Network Storage Device



DS-A908RE-B CVR Network Storage

- IP-SAN and Central video recording support
- Double controller and redundant power Automatic redundancy if failure occurs
- Disk detection, repair, and RAID optimization
- · Low-power design
- · Massive storage space: 4U chassis with 24 HDDs and cascading extension support
- · Image and video mixed storage
- 3U (19-inch height)
- 8 HDD slots
- Recording Mode: Video (2 Mbps) + picture, 78-ch. recording + playback

PRODUCT SHOWCASE

Control Center



DS-6901/04/08/10/12/16UDI Ultra High Definition Decoder

• Decoding capacity: 12MP at 20 fps: 2 channels

8MP at 30 fps: 4 channels 5MP at 30 fps: 6 channel 3MP at 30 fps: 10 channel 1080p at 30 fps: 16 channel

- Provides HDMI (adaptable to DVI-D) and BNC output interfaces
- Up to 4K (3840 x 2160 @ 30 Hz) via HDMI output interfaces (only for even interface)
- H.265+/H.265, H.264+/H.264, MPEG4 and MJPEG video compressions
- G.722, G711A, G726, G711U, MPEG2-L2, and AAC audio compressions



DS-C10S-S11/22/41/E Video Wall Controller

- Up to 184-ch. analog, or 92-ch. TVI or 92-ch. HDMI / DVI / VGA input
- Up to 72-ch. HDMI / DVI / VGA output
- · Up to 72-piece screen jointing
- Built-in Matrix
- · Supports joint, division and display
- · Base map
- · Cross-window video roaming
- Supports hot plugging
- · Redundant power supply

APPLICATION REFERENCE



Hangzhou, China, G20 Public Security Project

HIKVISION's advanced products (like UAV/PanoVu/face recognition cameras ,etc.) were deployed at related significant area to provide a real-time, integrated security system.

Independent 70000+ video surveillance sites and 4000+ checkpoints which were constructed by domestic police and 30000+ social video surveillance cameras were completely integrated on HIKVISION's iVMS platform in 2016. Hikvision upgraded six sets video security systems of police branches in Hangzhou.

A series of new technologies , such as deep learning and big data ,have been successfully used in G20's safety & security system.



Singapore SPF Safe City Project

The SPF project involves 100,000 monitoring points and 11,550 NVRs/ $\ensuremath{\mathsf{DVRs}}.$

Hikvision iVMS integrated with the existing third-party mobile surveillance VMS and devices.

The management efficiency is remarkably increased after our deep customization.

With the well-performing availability mechanism, the system can function 24x7 hours.





Philadelphia Recreation Center, USA

Solution Highlights:

Hikvision's high-performance cameras, NVRs, and VMS technology were selected as a cost-effective solution at over 140 recreation centers to protect the city, to ensure a 'fun, safe, Philly summer'.



City of Salford, UK

Solution Highlights:

Hikvision DarkFighter cameras were installed to offer a true 24 hour monitoring service, with clear colored images in the evening. It also helps the operators to detect fly-tipper, illegal dumping rubbish in the city.



Buenos Aires, Argentina

Solution Highlights:

Hikvision provided a high definition surveillance solution for the city of Buenos Aires to provide the citizens a greater level of security. A combination of long-range wireless links and fiber-optic cable was used to connect Hikvision cameras to the head office for centralized management.



Seoul Safe City Project, South Korea

Solution Highlights:

More than 750 units of Hikvision's Network IR PTZ Dome Cameras are installed in Seoul and adjacent suburbs in South Korea, to provide a safer environment for both vehicles and commuters.



ADVANCED SECURITY, SAFER SOCIETY SMART SAFE CITY PROJECT SOLUTION







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