HIKVISION

A SAFE HARBOR
IN AN OCEAN OF THREATS
SMART PORT & MARITIME SOLUTION

smart solution **2.0**

PORT & MARITIME 2017

A WORLDWIDE LEADER
FOCUSED ON EXCELLENCE IN SECURITY SYSTEMS

Hikvision is the world's leading supplier of video surveillance products and solutions. Featuring the industry's strongest R&D workforce, Hikvision uses its state-of-the-art manufacturing facilities to design and develop innovative CCTV and video surveillance products.

Hikvision's complete product suite includes Smart IP cameras, HD analog cameras, speed domes, NVRs, hybrid and standalone DVRs, video management software, access control and alarm systems, encoders, decoders, digital video servers, and other elements of sophisticated security systems and CCTV technology for any security need. Hikvision products serve a diverse set of vertical markets including retail, banking and finance, transportation, education, commercial, government, residential applications, and more.

HIKVISION AT A GLANCE

Established in **2001**

US$ **3.88** billion sales revenue in 2015, with growth rate of **47%**

7-8% of annual revenue invested in research & development (R&D)

53% compound average growth rate from 2004 to 2015

Over **350** technology partners
Products sold in over **150** countries

17,000 employees, including **7,000** engineers

RAPID GROWTH

The Hikvision brand is renowned across the globe. IHS Inc.'s 2016 report affirmed that Hikvision is the largest worldwide supplier of CCTV and video surveillance equipment, for 5th consecutive year; and the No. 1 position in almost every individual equipment category.

Market Shares (by IHS Reasrch)						
Catagory	CCTV & Video Surveillance Equipment	Security Cameras	Analogue +HD CCTV Security Cameras	Network Security Cameras	Video Encoders	Total Recorders
Rank	1. Hikvision	1. Hikvision	1. Hikvision	1. Hikvision	1. Hikvision	1. Hikvision
Market share	19.50%	23.20%	19.90%	25.30%	14.70%	20.10%

A GLOBAL BRAND WITH A LOCAL PRESENCE

The customer comes first at Hikvision. Long-lasting partnerships are fostered as Hikvision works with its customers to identify their needs and provide solutions that support their success. Hikvision continues to expand into new areas and markets and currently has 21 regional offices in countries around the world. 65% of Employees in Hikvision's International Business Department are locals working in their native regions. Hikvision's support team of regional sales managers, sales engineers, and technical service personnel all share the same goal of helping customers with their individual needs.

EXPLORE VERTICAL SOLUTIONS TOGETHER WITH HIKVISION

As a solution partner with the world's largest CCTV equipment provider, you will enjoy:

- Platform/software integration support
- Extensive customization support
- Local support by Hikvision overseas subsidiaries
- Technical project support from Hikvision's R&D
- Possibilities for co-marketing cooperation
- New product/solution introduction
- New product demo support
- Yearly site visit for technology/product exchange
- Information Sharing via Solution Partner Platform

SMART SOLUTION FOR PORT & MARITIME

The importance of security in seafaring trades is matched only by its urgent vulnerabilities. And with the number of seaport shipments annually extending well into the millions, only a small fraction are individually inspected. Hikvision aims to change that.

Hikvision's Smart Port & Maritime Solution enables the early detection of security threats. Hikvision's technologically superior cameras capture even the minutest details, and in the harshest conditions. Our recording devices accurately and reliably store and replay crucial security-related information. We want to help you put into place effective plans and procedures for your crucial security needs.

Hikvision's advanced solution enables authorities to efficiently meet the requirements of the International Ship and Port Facility Security (ISPS) Code with top-tier performance. Our products arm you with the latest and highest quality surveillance, access control, and intelligence-gathering equipment. Hikvision's solution covers all your needs for monitoring the movement of personnel and cargo and for ensuring security communications with the utmost stability and reliability.

- **Ensures around-the-clock perimeter safety**
- **Increases vehicle access management**
- **Protects valuable merchandise**
- **Records reliable footage for investigation**

VEHICLE ACCESS CONTROL
ANPR camera for efficient vehicle access management

PERIMETER PROTECTION
Thermal imaging cameras and anti-corrosion cameras deliver long range detection and robust protection

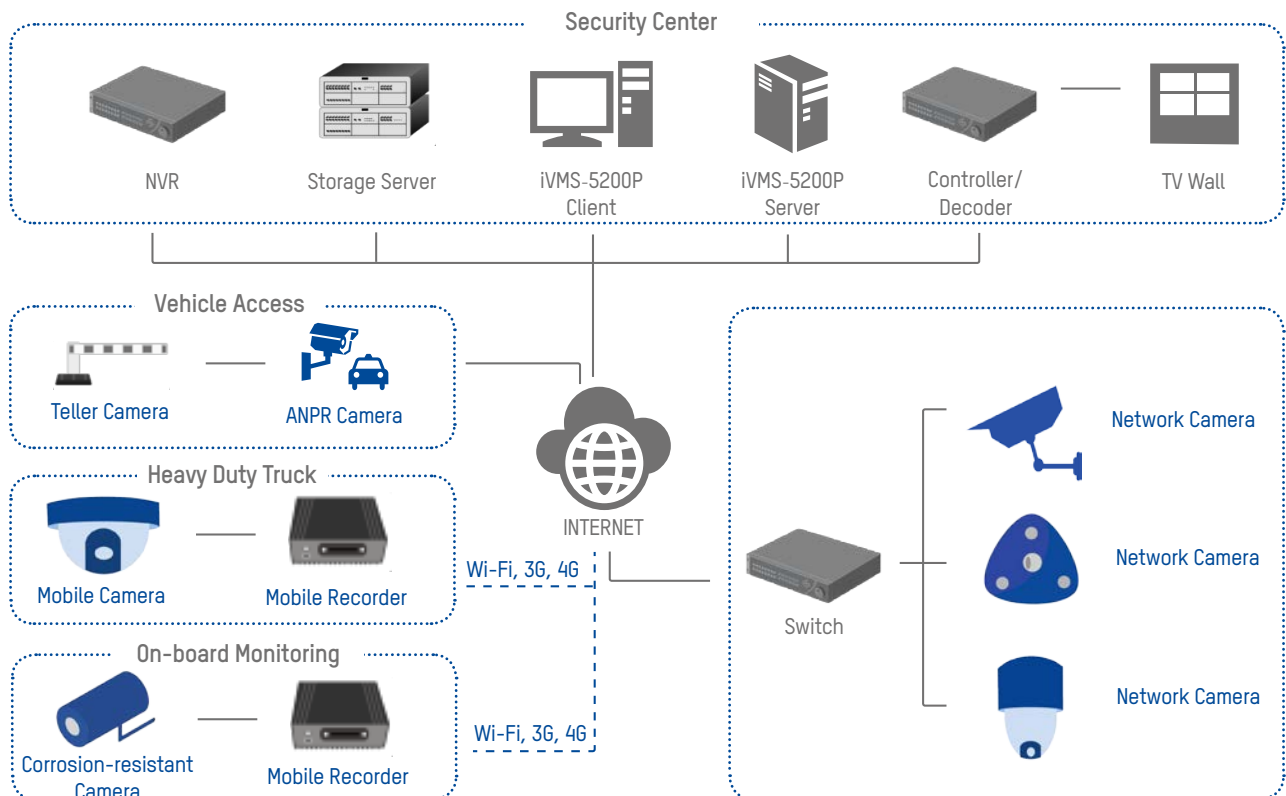**A trusted IP system dedicated to overall safety and business productivity**

SECURITY CENTER
• Centralized video management platform
• Reliable redundancy for data safety
• Video wall display

PARKING & WAREHOUSE
Each Darkfighter Camera in the series provides state-of-the-art low light capability

ON-BOARD MONITORING
On-board IP systems provide high quality, vibration-resistant and weather-protected monitoring for all kinds of transports

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Security Center

| NVR | Storage Server | iVMS-5200P Client | iVMS-5200P Server | Controller/ Decoder | TV Wall |

Vehicle Access
Teller Camera — ANPR Camera

Heavy Duty Truck
Mobile Camera — Mobile Recorder

On-board Monitoring
Corrosion-resistant Camera — Mobile Recorder

INTERNET

Wi-Fi, 3G, 4G

Wi-Fi, 3G, 4G

Switch

Network Camera

Network Camera

Network Camera

Parking & Warehouse
• Excellent imaging in low-light conditions
• Single wide angle lens monitoring covers entire areas

Vehicle Access Control
ANPR for Vehicle event recording and entrance automation

Security Center
• System reliability
• Data safety
• Prompt event response
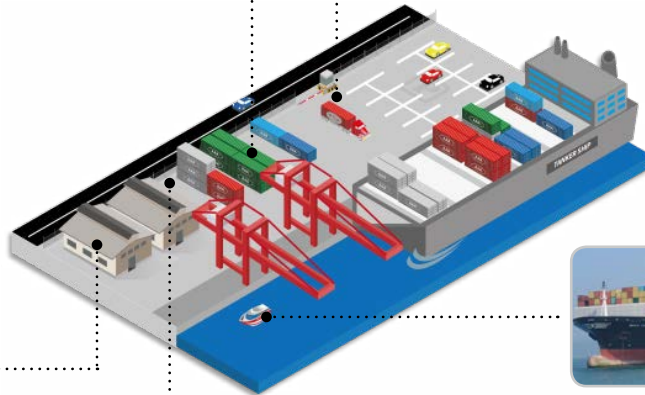
On-Board Monitoring
Varied systems for a diversity of vehicles such as heavy duty trucks, container tankers, and coast guard vessels

Perimeter Protection
Durable cameras resist corrosion and provide long range detection of unauthorized objects

VEHICLE ACCESS CONTROL

Hikvision Vehicle Access system combines high quality ANPR cameras and back-end devices to create barrier linkage, B/W list filtering, and alarm triggering.

ANPR Cameras: HD video quality, weather-proof, ultra low-light capability, barrier linkage support

Vehicle Detection → Smart IPC → License Recognition → NVR / iVMS-5200 Professional → Vehicle Management

Hikvision ANPR System
• License Plate Auto Comparison
• B/W list Filtering
• Alarm Triggering
• Result Query
• Result Export
• ANR (Auto Network Recovery)
• ANPR Remote configuration

* The exact functionalities may vary based on local strategy and product development.

* ANPR support requires a customized process, and the availability of regional Hikvision LPR support varies based on local algorithm development.

PORT & MARITIME

PARKING AREA MONITORING

Hikvision has developed a complete product line to monitor large areas and detect suspicious targets, even in low light conditions. Additionally, the iVMS platform and LED indicators manage and display the availability of public parking.

Panoramic Cameras: Four innovative Darkfighter imagers can deliver panoramic views with ultra low light capability to cover entire parking areas.

4 x rotated images in 1920x1080 resolution

Conventional camera

Stitching to one panoramic image in (4096x1800) resolution

Hikvision DarkFighter camera

PERIMETER PROTECTION

Ports are vast outdoor areas, full of valuable merchandise. Therefore, thermal imaging cameras are preferable, since these help detect intrusion at extended distances for improved security.

Dual-Lens Thermal Camera: One thermal imaging lens suffices for long-range detection, while a another, single Darkfighter visual imaging lens renders detailed video footage. Both work together in one camera housing.

Thermal Imager

Visual Imager

ON-BOARD MONITORING

From Stainless Steel Darkfighter Cameras to mini vehicle cameras to vibration-resistant mobile encoders, Hikvision offers a complete line of products to meet diverse surveillance needs, including container tankers, coast guard vehicles, and heavy duty trucks.

• **Container Tanker:** Darkfighter Stainless Steel cameras + mobile IP recorder
• **Coast Guard Vessels:** Stainless Steel mini dome + mobile IP recorder
• **Heavy Duty Trucks:** HD IP or HD TVI on-board system for truck tracking and incident recording

Container Trucks

Corrosion-resistant Mini Dome

4-ch HD Analog Recorder

Coast Guard Vessels

Front-view HD camera

Side-view Wide angle Camera

4-ch HD Analog Recorder

Rear-view HD Camera
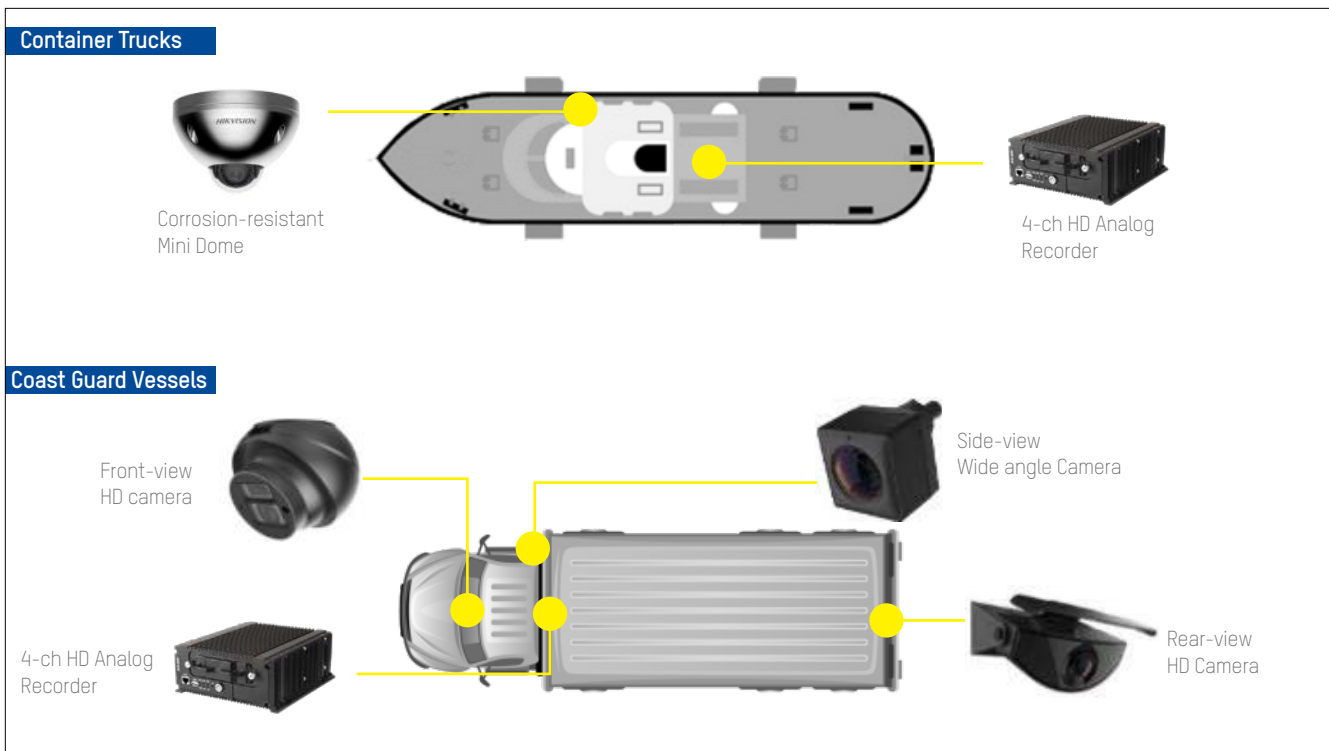
SECURITY CENTER

Comprising all the important video footage of daily operations, bank office's security center is a core of total CCTV system that requires utmost reliability and manageability for data protection and alarming operations.

• **Embedded NVR:** Hikvision has the richest embedded network recorder product line – from 4 channels to 256 channels – for every level of need
• **Video Management Platform:** iVMS5200P Video Platform is the CCTV system core that manages, views, plays back, and controls all the daily operations among all devices
• **Network Storage Server:** A must-have product line for total secure data storage
• **Monitor Display System:** From standalone monitors to large TV walls, Hikvision has it all

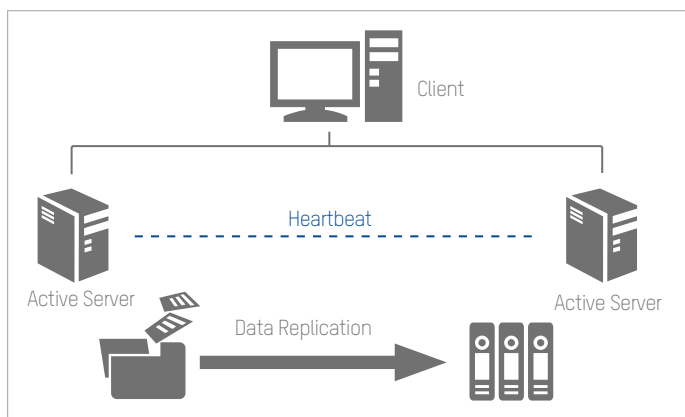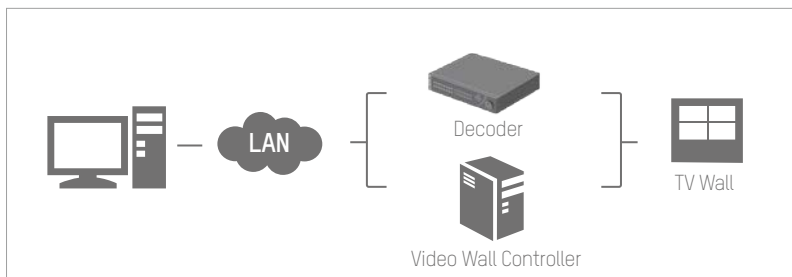| Real-time Tracking | Routine Playback | Exception Alarming | Instant Messaging | Analytic Reporting |
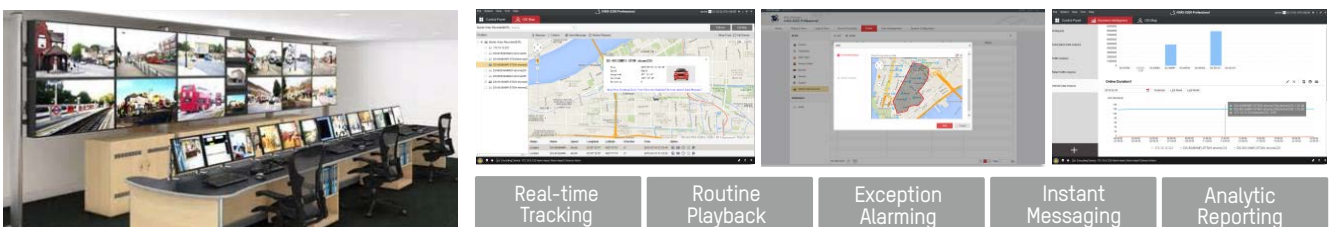
PORT & MARITIME
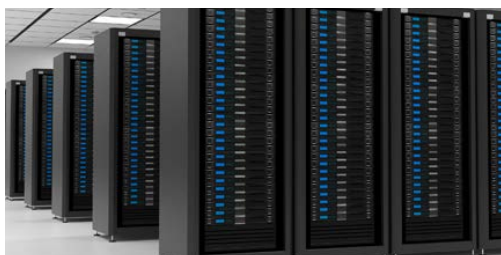
|	
🔒 Storage Server	⚙️ Modularized design and hot plugging for easy maintenance
Double controller & power module for data safety	Supports CVR mode for better return on investment

Client — LAN — Decoder / Video Wall Controller — TV Wall

Client
Heartbeat
Active Server — Active Server
Data Replication

Data Safety
Server Redundancy Design
- Active & standby servers
- "Heartbeat" function automatically backs up users' information if one server is interrupted
- Ensures users' live view and playback in case of failove

Streaming Media Server
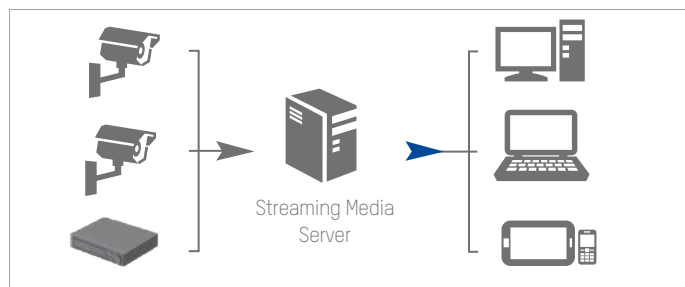
Transmission Optimization
Streaming Media Server
- Hikvision Streaming Media Server enable multiple users to live view or playback the same camera with only one channel bandwidth transmission;
- 1 Streaming Media Server supports up to 200 x 2Mbps video data streaming and up to 200 channels.

Temporary Backup
Video Uploading
Disconnected
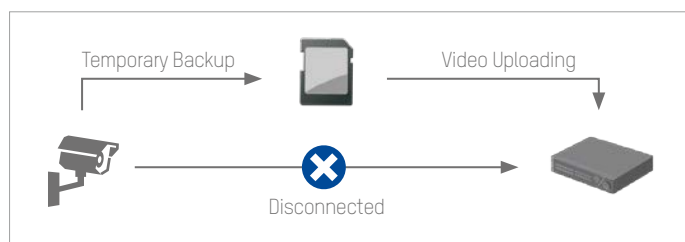
Data Safety
Auto Network Recovery (ANR)
- Auto backup if network connection is interrupted
- Data moves from SD card to back-end device while network connection is restored
- We recommended using Hikvision brand Micro SD card for ANR storage
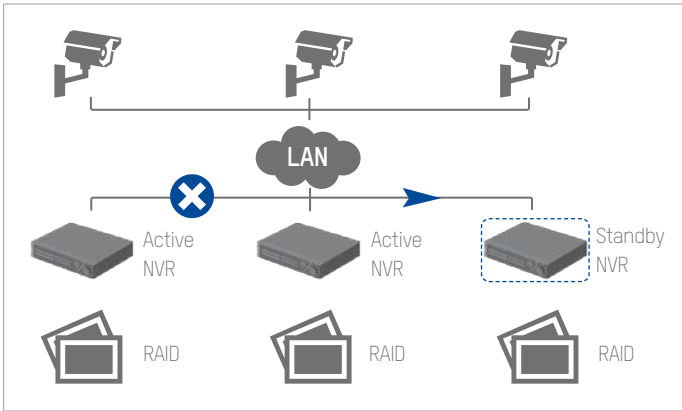
Data Safety
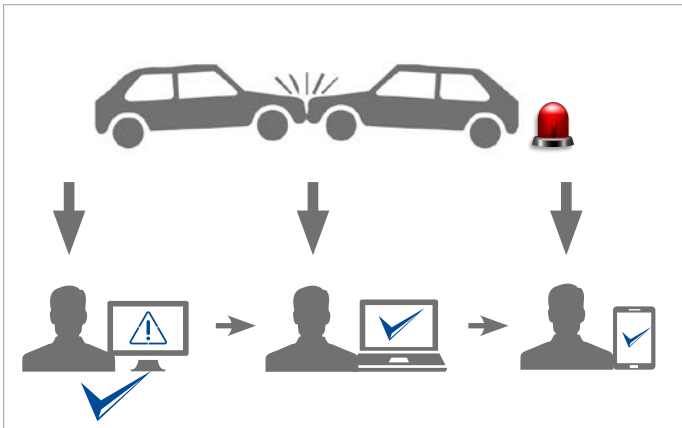### RAID & N+1 Failover

- Single-spot storage backup:
Multi-RAID supported by embedded NVR and Storage Server

- Multi-spot storage backup:
When any active NVR is out of service, the standby NVR can take over recording automatically
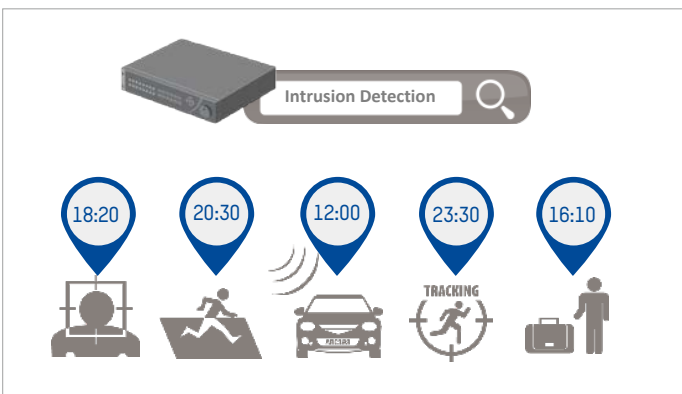

Alarm Management
Multi-users Notification

- Real-time alarm notifications sent to iVMS5200P's control clients
- Even mobile clients can receive notifications
- One-Check-All mechanism allows one user to handle the event and others to simply receive notification
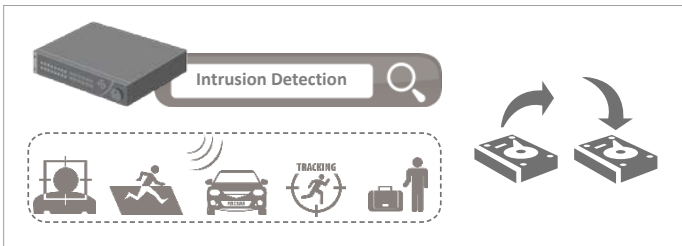
Large Data Management
Smart Backup

- Supports event footage backup
- Saves maximum storage space

Large Data Management
Smart Search

- Fully compatible with Hikvision Smart IP Cameras
- Easy and quick event search for snapshots and video recording
- Plays back the target event footage at standard speed and can fast-forward (up to 16x)
- Unrelated video can be skipped during playback

PRODUCT SHOWCASE

DS-2CD4A26FWD-IZS/P (2.8-12mm)
ANPR Camera

DARKFIGHTER

- DarkFighter ultra-low light technology
- License Plate Recognition*
- 1/1.8" progressive scan CMOS sensor
- Full HD1080p, up to 60fps
- 120dB WDR
- Full smart feature-set
- Up to 50m IR range
- Up to 128GB on-board storage
- Motorized lens with Smart Focus

*customization process required based on local ANPR algorithm adaption

DS-2CD6986F-H
8MP 180°
Panoramic Network Camera

DARKFIGHTER

- 4 x 1/1.9'' CMOS sensors, 1-ch
- 4096×1800 realtime video output
- 180o horizontal panoramic view
- DarkFighter ultra-low light technology

DS-2TD2235D-25/50
Thermal+Image Dual Lens Bullet Camera

Thermal Imager
- VOX Uncooled focal plane detector
- Up to 384 x 288 resolution
- 25mm lens, FoV: 21.7°or 50mm lens, FoV: 11°
- Smart Detection: Intrusion detection, Line Crossing detection, Region Entering/Exit detection, Audio Exception detection, Hot Spot detection.

Visual Imager
- 1/1.8" progressive scan CMOS
- Darkfighter Ultra low light
- Up to 1920 x 1080 resolution
- 120m IR range
- 23mm/40mm fixed lens
- Support ROI

General
- Support on-board storage, Micro SD/SDHC/SDXC (card no included)
- Audio I/O: 1/1; Alarm I/O: 1/1
- Protection: IP66
- Built-in heater
- AC24V, max 40W
- -40 ~ 65 working temperature

DS-2TD4035D-25/50
Thermal+Lmage Dual Lens PTZ Camera

Thermal Imager
- VOX Uncooled focal plane detector
- Up to 384 x 288 resolution
- 25mm lens, FoV: 21.7°or 50mm lens, FoV: 11°
- Smart Tracking: Panorama tracking, Event tracking, Multi-scene Patrolling
- Smart Detection: Intrusion detection, Line Crossing detection, Region Entering/Exit detection, Audio Exception detection, Hot Spot detection.

Visual Imager
- 1/3" progressive scan CMO
- Up to 1920 x 1080 resolution
- 150m IR range
- Pan: 360°endless; tilt: -15°~ 90°
- Support ROI

General
- Support on-board storage, Micro SD/SDHC/SDXC (card no included)
- Audio I/O: 1/1; Alarm I/O: 7/2
- Protection: IP66 protection
- wuhui5(Cherry.Wu) 01-13 16:34:51
- Built-in heater
- AC24V, max 50W
- -40 ~ 65 working temperature
- DS-2TD4035D-25/50
- Thermal+Lmage Dual Lens PTZ Camera

PRODUCT SHOWCASE
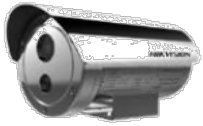
DS-2XE6222F-IS
Explosion-Proof &Corrosion-Resistant Network Camera

- H.265+/H.264+/H.265/H.264
- 2MP realtime resolution
- 120dB WDR
- ATEX, IECEx, IP68
- 316L Anti-Corrosion Standard: WF-2, NEMA 4X, C5-M
- Support on-board storage, up to 128GB
- AC 100V to 240V/PoE

DS-M5504HNI
4-Channel Mobile NVR

- Supports 4 channels of 1080P IP video input
- 4-channel POE interface
- Pluggable disk box with vibration damping technology
- 2x pluggable 2.5-inch HDDs / SSDs
- 1x SD/SDHC card slot
- Pluggable 3G/4G/Wi-Fi module (optional)
- Standard 1DIN dimensions
- EN50155 certification

DS-2CD6626DS-IZ(H)S
Corrosion-Resistant Network Camera

- Ultra-low illumination technology
- 316L stainless steel housing
- 1/1.8" progressive scan CMOS sensor
- 2.8~12mm motorized VF lens
- 120dB WDR
- Full Smart Feature-set
- ISO C5-M, NEMA 4X certification

DS-M7508HNI (/GW/WI)
On-board Network Recorder

- 1920x1080 high resolution
- Support 8-ch IP video with PoE interfaces
- Pluggable 3G module optional (/GW)
- Built-in Wi-Fi / GPS optional (/WI)
- Support two 2.5-inch HDDs / SSDs
- Hard disk box with USB interface supporting intelligent temperature control and data export
- M12 connectors ensuring signal stability
- Wide-range power input (+8VDC ~+36 VDC)
- Power-off protection avoiding data loss
- Aluminum die-cast chassis with no fan design well adaptable to working environment

AE-VD521T-A2R1
HD Analog
Mobile Camera

- 2.1mm fixed lens, 2.8/3.6mm optional
- 3-axis adjustment
- Up to 20m IR range
- IP68 weather-resistant
- Aviation plug
- DC6V ~ 16V

DS-2CD6520ET-I(O)
2MP Outer-vehicle
Mini Dome Network Camera

- Special design for vehicle-mounted
- 2MP real time resolution
- 3-axis adjustment
- M12 Ethernet interface(optional)
- Up to 30m IR range
- IP68, IK10
- EN50155, EN50121 certification

PORT & MARITIME

PRODUCT SHOWCASE

DS-9632/64NI-I8
Embedded 4K NVR
4K

- Maximum 320Mbps bitrate Input
- 200Mbps bitrate input (RAID enabled)
- Support 3rd party network cameras
- Up to 12MP resolution recording
- Support H.264/H.264+/H.265 video format
- 2x HDMI & 2x VGA output (3840x2160)
- Support RAID0, 1, 5, 10
- Support redundant power supply
- Dual digital network interfaces
- 8x SATA, 1x eSATA, 2x USB2.0, 1x USB3.0
- 19-inch rack-mounted 2U chassis

iVMS-5200 Professional
Video Management Platform

- Centralized device & user management
- Maximum connected devices per system: 1024
- Maximum 100 control client for system
- Support 3rd party integration via ONVIF & SDK
- Additional add-on modules:
- LPR: license plate recognition
- Transaction: POS integration + CCTV footage
- Business Intelligence: people counting, heat mapping and retail traffic analytic
- GIS: Vehicle tracking, GEO fencing

DS-A81016S
Network Storage System

- High performance 64 bit RISC processor
- Up to 16 HDD, 6TB maximum capacity for each
- Up to 180-ch 4CIF real-time recording
- iSCSI/NFS/CIFS/FTP/HTTP/AFP protocols
- Support RAID 0, 1, 3, 5, 10, 50
- Support HDD hot-swapping
- Dual Gigabit network interfaces
- Modularized design for easy maintenance
- Redundant power design for high reliability

DS-A82024D
Network Storage System

- High performance & easy extensible hardware platform
- Double controller system design
- Automatic service takeover
- Disk detection, repairing and RAID optimization
- Low power consumption
- 4U chassis structure, support up to 24 HDDs and cascade extension

DS-M5504HNI
4-ch Mobile NVR

- Up to 12MP/14fps resolution
- 1/4/6/8/9/16 division
- 1-ch DVI and 1-ch VGA signal input(Except DS-6401HDI-T)
- DS-6401 supports HDMI/VGA/BNC interfaces
- Other models support DVI/BNC interfaces (HDMI/VGA requires converter)
- PC signal to display on video wall
- Screen joint and display
- Cross-window video roaming
- Video fluency enhancement

DS-C10S-11/22/41/E
TV Wall Controller

- Maximum 184-ch analog, or 92-ch TVI or 92-ch HDMI/DVI/VGA input
- Maximum 72-ch HDMI/DVI/VGA output
- up to 72pcs screen joint
- Built-in Matrix
- Support joint, division and display
- Base map
- Cross-window video roaming
- Support hot plug
- Redundant power supply

PORT & MARITIME

PRODUCT SHOWCASE

DS-D2046NL/H –C
DS-D2055NL/H –B
Ultra Slim Bezel LCD

- 46" or 55" screen dimension
- -NL: 500cd/㎡ brightness
- -NH: 800cd/㎡ brightness
- 3.5mm physical seam
- Defog, low-light compensation
- Edge processing, true native image
- Dynamic self-adaption noise reduction
- Cross color suppression
- Signal input: HDMI, DVI, VGA, BNC, YPbPr
- Signal output: DVI, VGA, BNC
- Remote control: IR in, Address ID
- RS232 control

DS-D5032FL
LCD Monitor

- 8bit/10bit 2-ch LVDS(1920*1080) Full HD1080P resolution
- Adopt 3D digital comb filter
- True color OSD and user-friendly operation menu
- Adopt mstar ACE-5 auto color and image enhancement angine, to improve image contrast, detail
- 1 channel HDMI 1.3 input interface support HDCP 1.2
- Support video output
- Support audio I/O

DS-6102 HLI/GW
Portable Video Recorder

- H.264 Video Compression
- 3.5 inch IPS Touch Screen
- 5MP HD Camera
- Up to HD1080p Video Recording
- Up to 32GB Micro SD card recording
- Built-in 3G and GPS module

DS-1100KI
Network Keyboard

- 7" TFT touch screen with 800×480 resolution
- Live view and video playback
- Video wall control
- 4-axis joystick
- Macro command operation
- Up to 255 analog domes by RS-485 connection
- Compatible with Hikvision IP cameras, DVR/NVR, decoder, matrix

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