

Hikvision Smart City Solution

Current issues in city surveillance...





Frequent incidents of crime



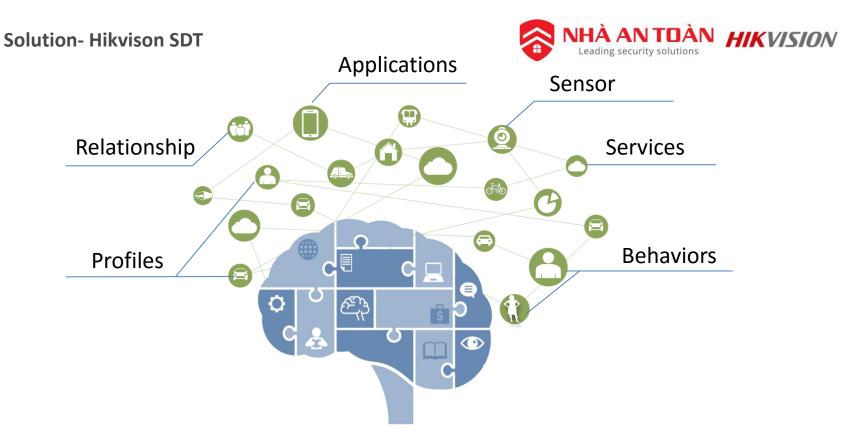
Lack of timeliness



Limited coverage of information



High labor intensity



Security Data Technology

Hikvision Smart City Construction







Sense Layer

Capture the Information by **Sensors**



Camera
Video contains most
abundant information



GPS
Real-time locate the mobile devices

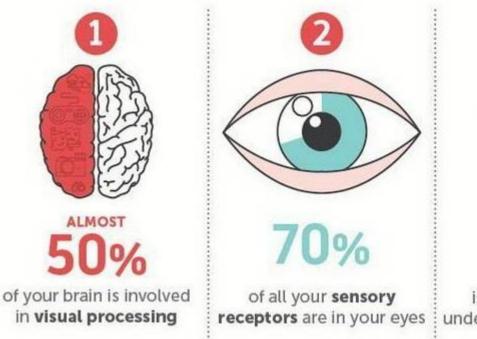


Access Control Record the access information



RFID Keep track of goods in logistics system







video is the key component in sense layer

Sense- Camera



Sense- Camera













First Choice for Security Professionals

Sense- Camera



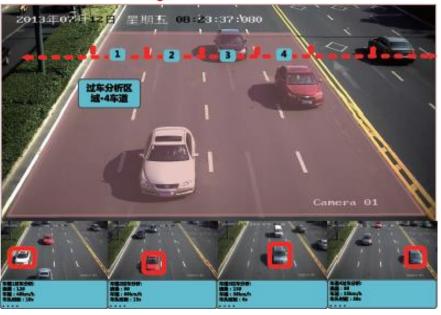




Intelligent Traffic Camera



Vehicle Detector



- ·License Plate ·Vehicle Type ·Vehicle Color
- ·Violation Behaviors ·Vehicle Speed
- Traffic Flow ·Traffic Density Analysis

Sense- Mobile Devices with GPS module









Mobile PTZ

PVR



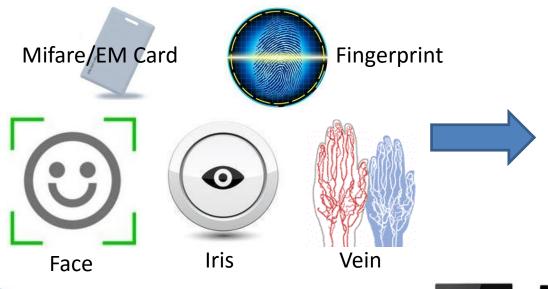


Mobile DVR



Sense- Access Control





Personnel Information



Name: Jason

Location: Building 2,Demo Room

Title: Senior Engineer

Contact No.:6666666

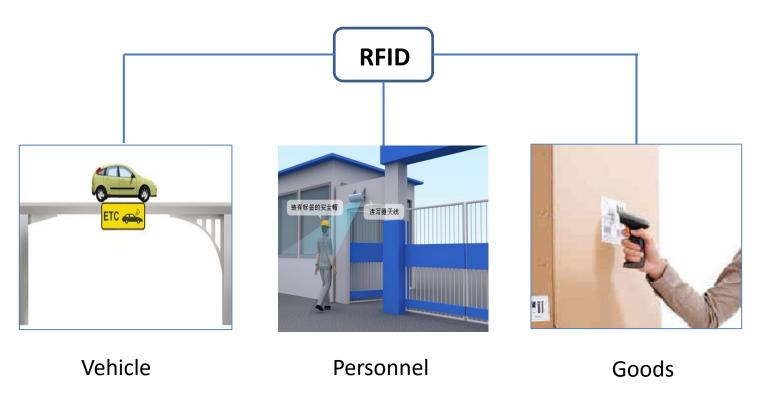
Level: High















Internet of Things
Connectivity | Interoperability



Data Layer

Data Processing and Data Storage

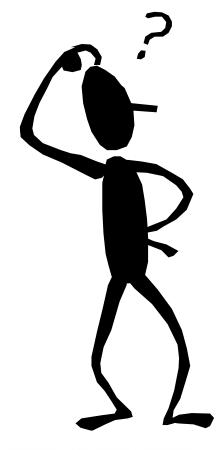


Video Compression



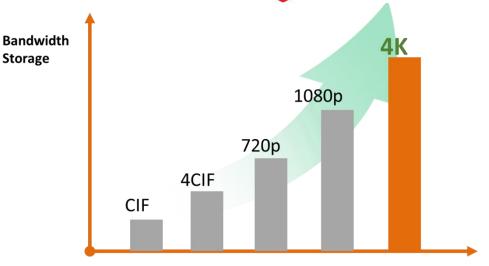
Cloud Storage





Storage



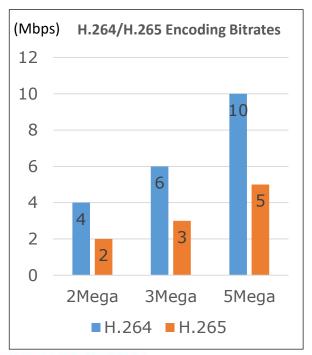


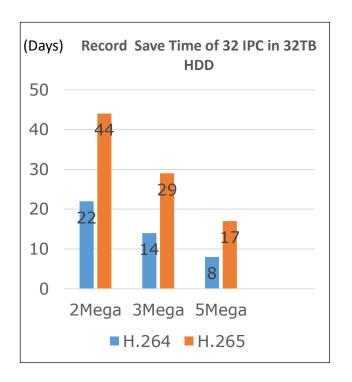
Ultra HD video is quite enjoyable, but it also brings extra cost on the transmission bandwidth and data storage.

How can I make a good balance?



 H.265 is next generation of video encoding standard, which can double the compression ratio comparing to H.264, at the same level of picture quality.







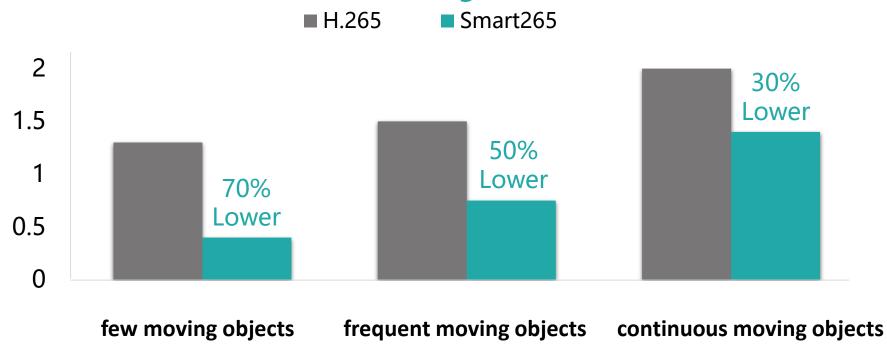
A Hikvision Patent better than H.265

Smart 265



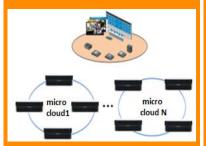


Bitrate on 1080P Encoding (H.265 VS Smart265)





Micro Cloud



- Small-size project
- Descrete local storage
- CVSN self-management
- No CVMN

Standard Cloud



- General medium-size cloud storage solution
- Centralized storage
- CVMN+CVSN

Decentralized Cloud



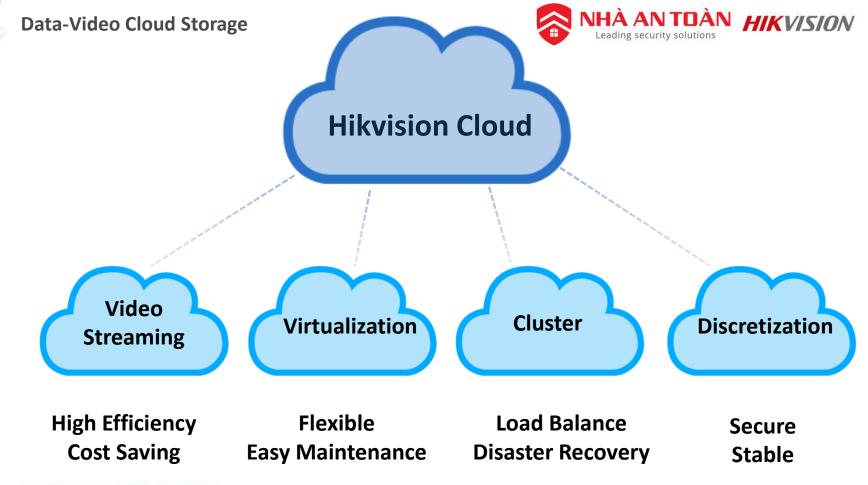
- Descrete server deployment
- Independent storage service
- Cloud self-management

Intercloud



- Unified management center dispatch resource
- Interaction and backup among clouds

Hikvision 4 Cloud Storage Solutions

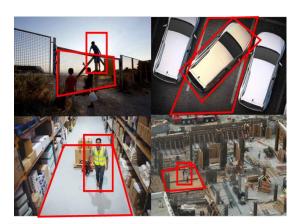


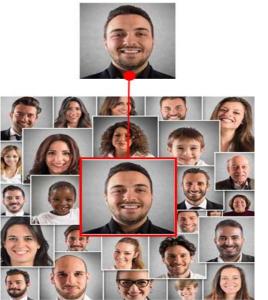


Intelligence Layer

Convert Video Data to Structural Data









First Choice for Security Professionals

Intelligence-Behavior Analysis



Intrusion Detection



Crossing Detection



Fast Moving



Illegal Parking



Loitering



People Gathering



Region Entrance



Region Exit



Unattended Object



Object Removal









Video: 300,000 GB , Check one by one



High cost of labor and resources

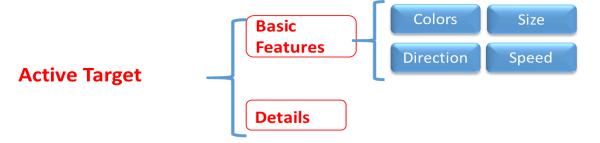
Key information lost

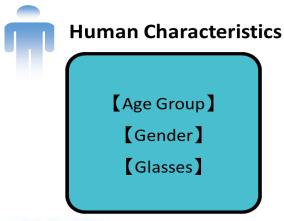
A true story...

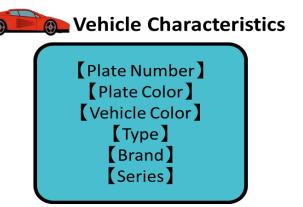
To find the criminal

Policemen spent 2 months to check video





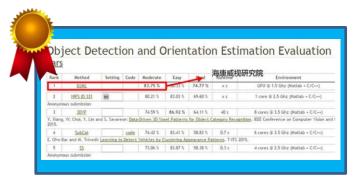












Hikvision Ranges No.1 in World KITTI and MOT Challenge!







Intelligence



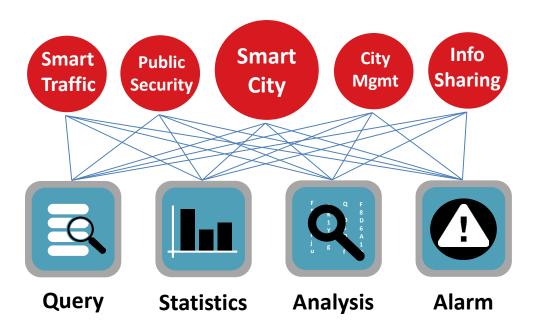


Video→Structural Data→Machine Analysis



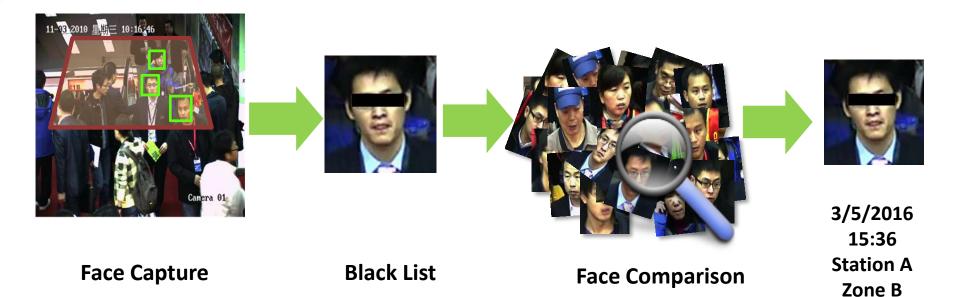
Application Layer

Variable Services Provided by Hikvision SDT



Application-Criminal Hunt





Application-Personnel Track

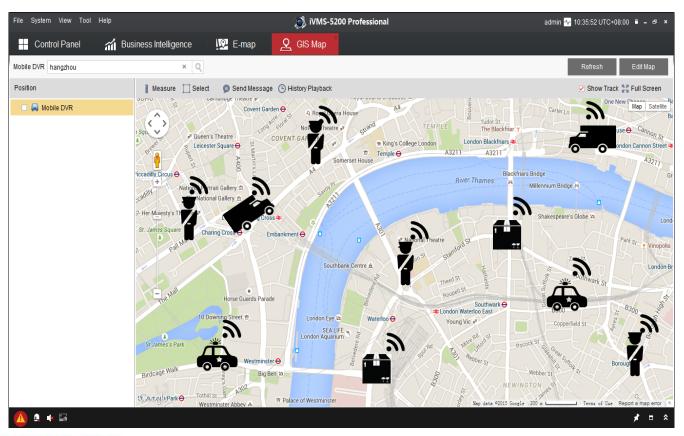






Application-GIS Map Real-time Monitoring





Application-Traffic Violation Detection





Application-Traffic Flow Estimate





Application-Traffic Guidance



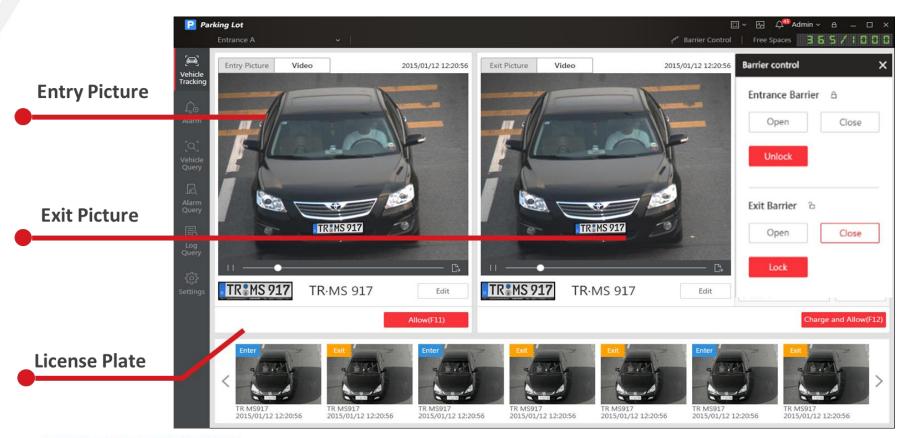






Application-Vehicle Control





Application-Passenger Info Database





116	事件会型	出入口名称	中电	特尔人姓名	#0	
2014-05-14 10:30:19	周开包城	20	344(1949)2	44444	數以即门	
2014-05-14-10:34:00	进入区域(代計重算)	附此九口	3444704692	2.4444-	製以部门	
2014-05-14 10:34:08	· 通入区域	所在出入口	0121397710	\$12	製品銀行	
2014-05-14 10:34:0T	展开区域(代許重賞)	知	0121397710	872	製以銀门	
70:44-05-14 10:34:07	商并包括(代許重賞)	20	0121397710	872	對从部门	
0014-05-14 10 34 0T	事法专州出	20	00001			
0014-05-14 10:34:07	第 并包括	知	0121397710	等容数	製が製し	
2014-05-14 10:30:38	推入区域	新住人口	3444784692	44444-	STUBIT?	
2014-05-14 10:30:13	差入日城	阿廷 入口	0121397710	858	\$51.80T	

Access Information









Application-City Info Sharing

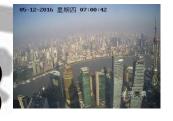






















Ezviz video square





Simpler Safer Smarter

Thanks

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