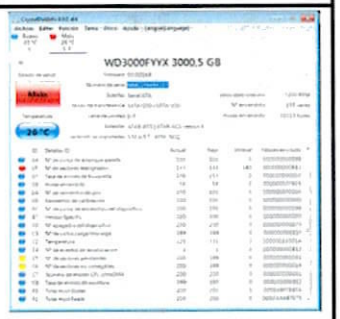
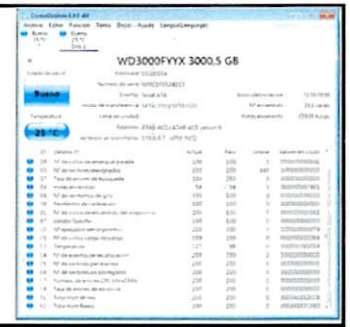
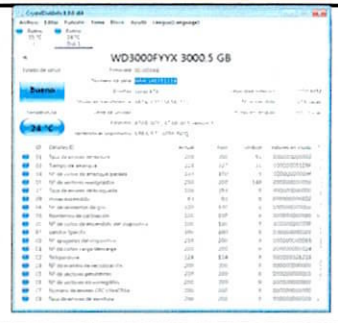
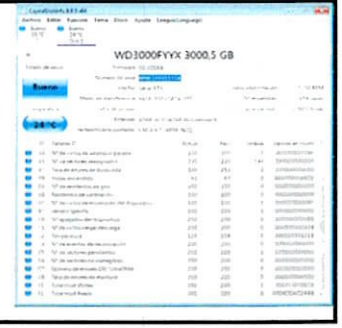
51	EQUIPO WORKSTATION DELL	OK	Serial incorrecto 20366080154. Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo, ítem 5.41 Servicio técnico de mantenimiento preventivo a estaciones de trabajo tipo Workstation.	20364587318
52	EQUIPO WORKSTATION DELL	OK	Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo, ítem 5.41 Servicio técnico de mantenimiento preventivo a estaciones de trabajo tipo Workstation.	20364400694
53	EQUIPO WORKSTATION DELL	OK	Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo, ítem 5.41 Servicio técnico de mantenimiento preventivo a estaciones de trabajo tipo Workstation.	20364494006
54	EQUIPO WORKSTATION DELL	OK	Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo, ítem 5.41 Servicio técnico de mantenimiento preventivo a estaciones de trabajo tipo Workstation.	20676995894
55	MONITOR DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-05YD8C-74445-54G-221L
56	MONITOR DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-05YD8C-74445-54G-219L
57	MONITOR DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-05YD8C-74445-510-306L
58	MONITOR DELL	OK	Estado OK, Funcionamiento: Inadecuado. Fuera de servicio.	Se requiere hacer mantenimiento preventivo.	CN-05YD8C-74445-54G-222L
59	MONITOR DELL	OK	Estado OK, Funcionamiento: la pantalla muestra una linea vertical pixelada.	Se requiere hacer mantenimiento preventivo.	CN-05YD8C-74445-54G-211L
60	MONITOR DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-05YD8C-74445-5AU-805L
61	MONITOR DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-05YD8C-74445-54G-223L
62	MONITOR DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-05YD8C-74445-54G-180L
63	MONITOR DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-05YD8C-74445-54G-215L
64	MONITOR DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-05YD8C-74445-54G-181L
65	MESA ESCRITORIO	OK	Estado Regular, Funcionamiento Regular. Se revisa fisica y funcionalmente, se encuentra que tiene partes de la mesa rasgadas y/o peladas, su funcionamiento es regular ya que las cajoneras están dañadas.	Se requiere hacer un mantenimiento preventivo y correctivo de los elementos dañados.	
66	MESA ESCRITORIO	OK	Estado Regular, Funcionamiento Regular. Se revisa fisica y funcionalmente, se encuentra que tiene partes de la mesa rasgadas y/o peladas, su funcionamiento es regular ya que las cajoneras están dañadas.	Se requiere hacer un mantenimiento preventivo y correctivo de los elementos dañados.	
67	MESA ESCRITORIO	OK	Estado Regular, Funcionamiento Regular. Se revisa fisica y funcionalmente, se encuentra que tiene partes de la mesa rasgadas y/o peladas, su funcionamiento es regular ya que las cajoneras están dañadas y su chapa no funciona.	Se requiere hacer un mantenimiento preventivo y correctivo de los elementos dañados.	
68	MESA ESCRITORIO	OK	Estado Regular, Funcionamiento Regular.	Se requiere hacer un mantenimiento preventivo y correctivo de los elementos dañados.	
69	MESA ESCRITORIO	OK	Estado OK, Funcionamiento OK.	Se requiere hacer un mantenimiento preventivo de la mesa de escritorio.	
70	SILLA ERGONÓMICA	OK	Estado Regular, Funcionamiento Regular. Se revisa fisica y funcionalmente, se encuentra deteriorada y en muy malas condiciones para su funcionamiento, se encuentra rota parte de la silla.	Se requiere hacer un mantenimiento correctivo (cambio de la silla ergonómica).	
71	SILLA ERGONÓMICA	OK	Estado Regular, Funcionamiento Regular. Se revisa fisica y funcionalmente, se encuentra deteriorada y en muy malas condiciones para su funcionamiento, se encuentra rota parte de la silla.	Se requiere hacer un mantenimiento correctivo (cambio de la silla ergonómica).	
72	SILLA ERGONÓMICA	Fuera de servicio	Estado Dañada, Funcionamiento No Funcional. Se revisa fisica y funcionalmente, se encuentra fuera del cuarto de control y dañada.	Se requiere hacer un mantenimiento correctivo (cambio de la silla ergonómica).	
73	SILLA ERGONÓMICA	Fuera de servicio	Estado Dañada, Funcionamiento No Funcional. Se revisa fisica y funcionalmente, se encuentra fuera del cuarto de control y dañada.	Se requiere hacer un mantenimiento correctivo (cambio de la silla ergonómica).	
74	SILLA ERGONÓMICA	OK	Estado Regular, Funcionamiento Regular. Se revisa fisica y funcionalmente, se encuentra deteriorada y en muy malas condiciones para su funcionamiento, se encuentra rota parte de la silla y con una rueda dañada.	Se requiere hacer un mantenimiento correctivo (cambio de la silla ergonómica).	
75	TECLADO DELL	OK	Estado OK, Funcionamiento OK. Tecla fin desprendida asi mismo la tecla de flecha hacia abajo, presenta falla ya que en ocasiones se queda oprimida.	Se requiere hacer un mantenimiento correctivo (cambio del teclado DELL).	CN-0C639N-71616-4BS-0YFE-A00
76	TECLADO DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-0C639N-71616-4BS-0YFF-A00
77	TECLADO DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-0C639N-71616-4BS-0YHX-A00
78	TECLADO DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-0DJ462-71581-5AS-02YC-A01
79	TECLADO DELL	OK	Estado OK, Funcionamiento OK. Tecla "Fin" desprendida.	Se requiere hacer mantenimiento preventivo.	CN-0C639N-71616-4BS-0YHQ-A00
80	MOUSE DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-0KW2YH-71616-580-2FGD
81	MOUSE DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-09RRC7-48729-543-0QRL
82	MOUSE DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-09RRC7-48729-53B-045T
83	MOUSE DELL	Fuera de servicio	Se realizo La correspondiete revision y no se encuentra el mouSe de marca DELL.	Se requiere ejecutar el mantenimiento correctivo, ya que el dispositivo se daño y fue desplazado. Se requiere hacer un mantenimiento correctivo (cambio de mouse DELL).	165722403922
84	MOUSE DELL	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	CN-09RRC7-48729-543-0QSR
85	JOYSTICK PERFORMANCE	Fuera de servicio	No aparece		1513
86	JOYSTICK PERFORMANCE	OK	Pendiente por revisión.	Se requiere hacer mantenimiento preventivo.	1513
87	JOYSTICK PERFORMANCE	OK	Pendiente por revisión.	Se requiere hacer mantenimiento preventivo.	1513
88	JOYSTICK PERFORMANCE	OK	Pendiente por revisión.	Se requiere hacer mantenimiento preventivo.	1513

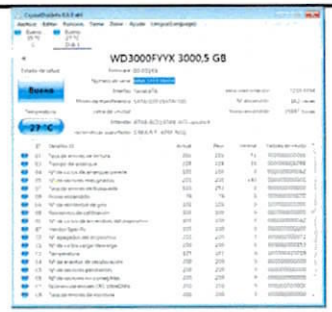
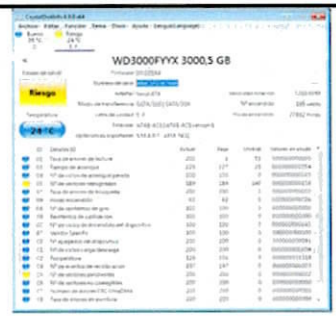
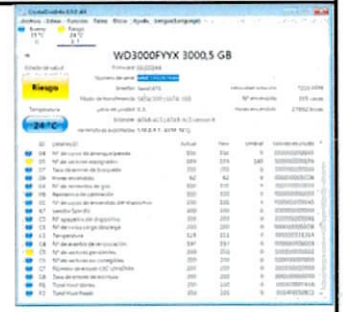
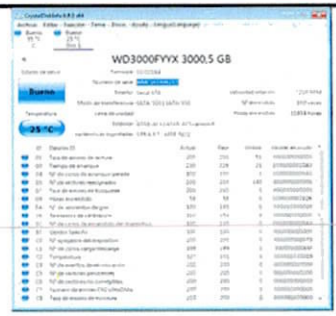
89	JOYSTICK PERFORMANCE	OK	Pendiente por revisión.	Se requiere hacer mantenimiento preventivo.	1513
90	EQUIPO SERVIDOR MINI	OK	Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo, ítem 5.41 Servicio técnico de mantenimiento preventivo a estaciones de trabajo tipo Workstation.	25984266338
91	EQUIPO SERVIDOR MINI		No aparece		25982866658
92	EQUIPO SERVIDOR MINI	OK	Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo, ítem 5.41 Servicio técnico de mantenimiento preventivo a estaciones de trabajo tipo Workstation.	25982913314
93	EQUIPO SERVIDOR MINI	OK	Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo, ítem 5.41 Servicio técnico de mantenimiento preventivo a estaciones de trabajo tipo Workstation.	25982959970
94	AIRE ACONDICIONADO	OK	Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo, ítem 5.41	2214E01967
95	AIRE ACONDICIONADO	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	0415X73244
96	AIRE ACONDICIONADO	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	0515X64688
97	AIRE ACONDICIONADO	OK	Estado OK, Funcionamiento OK.	Se requiere hacer mantenimiento preventivo.	N/A
98	UPS 20 kva FENTON	OK	Estado OK, no carga las baterias.	Se requiere hacer mantenimiento preventivo. Item 6.14	R020KT6203
99	UPS 15 kva CDP CHICAGO DIGITAL POWER	OK	Estado OK, no carga las baterias.	Se requiere hacer mantenimiento preventivo. Item 6.14	500120104035E3400006
100	BATERÍAS UPS FENTON	OK	Estado OK, las baterias no mantienen la carga.	Se requiere hacer mantenimiento correctivo, cambio de baterias. Item 6.7	6-GFM-38
101	BATERÍAS UPS CDP CHICAGO DIGITAL POWER	OK	Estado OK, las baterias no mantienen la carga.	Se requiere hacer mantenimiento correctivo, cambio de baterias. Item 6.8	FL12180

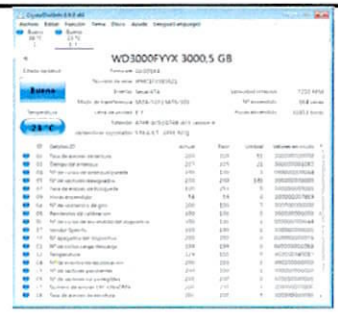
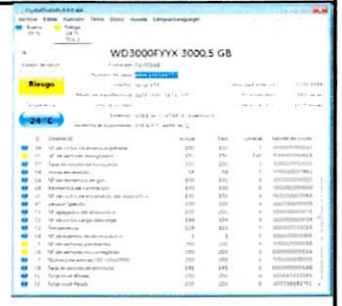
ELEMENTOS NO INCLUIDOS EN EL DIAGNÓSTICO DEL CONTRATO NRO 1965 DE 2018.

Item	Descripción	Diagnostico	Observaciones	Recomendaciones	SERIALES
102	AIRE ACONDICIONADO	OK	Estado OK, Funcionamiento OK.		
103	AIRE ACONDICIONADO	OK	Estado OK, Funcionamiento OK.		
104	AIRE ACONDICIONADO	OK	Estado OK, Funcionamiento OK.		
105	AIRE ACONDICIONADO	OK	Estado OK, Funcionamiento OK.		
106	AIRE ACONDICIONADO	OK	Estado OK, Funcionamiento OK.		
107	AIRE ACONDICIONADO	OK	Estado OK, Funcionamiento OK.		
108	AIRE ACONDICIONADO	OK	Estado OK, Funcionamiento OK.		
109	AIRE ACONDICIONADO	OK	Estado OK, Funcionamiento OK.		
110	AIRE ACONDICIONADO	OK	Estado OK, Funcionamiento OK.		
111	AIRE ACONDICIONADO mini spliter	OK	Estado OK, Funcionamiento OK.		
112	NVR ACTI-1 MAC 0CC47A0E5206/5207, Storage S / N: EP15050077	OK	Estado OK, Funcionamiento OK, faltan discos duros y toma mucho tiempo en cargar la info.	Se requiere el cambio de NVR por una de mayor capacidad.	MAC 0CC47A0E5206/5207 EP15050077
113	NVR ACTI-2 MAC 0CC470C0COE/0C0F, Storage S / N: EP15050076	OK	Estado OK, Funcionamiento OK, faltan discos duros y toma mucho tiempo en cargar la info.	Se requiere el cambio de NVR por una de mayor capacidad.	MAC 0CC47A0C0C0E/0C0F EP15050076
114	SWITCH FIRSTMILE M8350-28SM	OK	Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo.	1412050000118
115	SWITCH FIRSTMILE M8350-28SM	OK	Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo.	1412050000144
116	SWITCH DGS-3420-28T	OK	Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo.	C4A81DBCEA00
117	SWITCH DES-3200-10	OK	Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo.	9094E4410BA0
118	UPS 30 kva FENTON	OK	Estado OK, no carga las baterias.	Realizar mantenimiento preventivo.	R020KT6203
119	BATERÍAS UPS FENTON	OK	Estado OK, las baterias no mantienen la carga.	Realizar mantenimiento correctivo.	
120	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	608MXLSL4560
121	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	607MXGLSL391
122	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	608MXDML4562
123	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	607MXOAKZ116
124	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	602MXMTQN435
125	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXBPPT989
126	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXZJPT997
127	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXVWPT991
128	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXYGPT994
129	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	602MXDMQN434
130	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXXQPU002
131	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXRFPT990
132	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXFVPT987
133	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXHBPT993
134	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXGLPU015
135	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXHBPU009
136	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXPHPU008
137	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXYGPU010
138	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXWEPU001
139	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXPHPT992
140	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXVWPU007
141	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXAYPU000
142	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	511MXCRPT995
143	MONITOR LG55	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo. Item 5.40	608MXQAVG556
144	MONITOR LG65	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo.	504MXUNRL022
145	MONITOR LG65	OK	Estado OK. Funcionamiento OK.	Realizar mantenimiento preventivo.	504MXXQRL026
146	RACK 2 MTS NEGRO	OK	Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo, ítem 2.26	
147	RACK 1,8 MTS NEGRO	OK	Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo, ítem 2.25	
148	RACK 1,8 MTS NEGRO	OK	Estado OK, Funcionamiento OK.	Realizar mantenimiento preventivo, ítem 2.25	

N° Disco	Marca	Capacidad	Numero de serie	Estado	Software de comprobacion	Foto
1	DELL	3 TB	WMC1F0494107	Dañado	CrystalDiskInfo	 
2	DELL	3 TB	WMC1F0549928	Dañado	CrystalDiskInfo	 
3	DELL	3 TB	WMC1F0458068	Bueno	CrystalDiskInfo	 

4	DELL	3 TB	WMC1F0524113	Bueno	CrystalDiskInfo		
5	DELL	3 TB	WMC1F0539519	Bueno	CrystalDiskInfo		
6	DELL	3 TB	WMC1F0351118	Bueno	CrystalDiskInfo		

7	DELL	3 TB	WMC1F0338604	Bueno	CrystalDiskInfo	 
8	DELL	3 TB	WMC1F0267646	Regular	CrystalDiskInfo	 
9	DELL	3 TB	WMC1F0306210	Bueno	CrystalDiskInfo	 

10	DELL	3 TB	WMC1F0352705	Bueno	CrystalDiskInfo		
11	DELL	3 TB	WMC1F0383621	Bueno	CrystalDiskInfo		
12	DELL	3 TB	WMC1F0169772	Regular	CrystalDiskInfo		

HIKVISION

DS-6912UDI
Decoder



- Provides HDMI (adaptable to DVI-D) and BNC output interfaces.
- Up to 4K (3840 × 2160@30Hz) via HDMI output interfaces (only for odd interface).
- H.265+/H.265, H.264+/H.264, Hik264, MPEG4 and MJPEG video compression.
- PS, RTP, TS, ES, HIK encapsulation formats.
- Three encoding levels: baseline, main, and high-profile.
- G.722, G711A, G726, G711U, MPEG2-L2, and AAC audio compression.
- Two decoding modes: active decoding and passive decoding.
- Remote video files' decoding output.
- Supports two-way audio via client software.
- Provides VGA and DVI input interfaces.
- Supports window opening, window roaming and window split.
- Supports multi-screen control with PC installed with RSC server.
- Gets stream and decodes via URL and RTSP from encoding devices.
- Displays the decoded video stream on the video wall by directly linking cameras or by stream media forwarding.
- You can configure what the video wall shows when decoding ends and streaming fails via the Web browser and client software.
- Configurable LED width and height parameters when the LED is connected.
- Regular and irregular virtual screen configurable to display multiple signal sources and get rid of the restriction of physical screen.
- Accessible by 2.4 MP DeepinView camera.
- Accessible by thermal network camera and you can view the temperature measurement, dynamic fire source detection, ship detection and VCA information in live view and playback.
- You can enable or disable the smart information for the thermal network camera.
- Two-way audio.
- Port aggregation technology (Ethernet Channel).

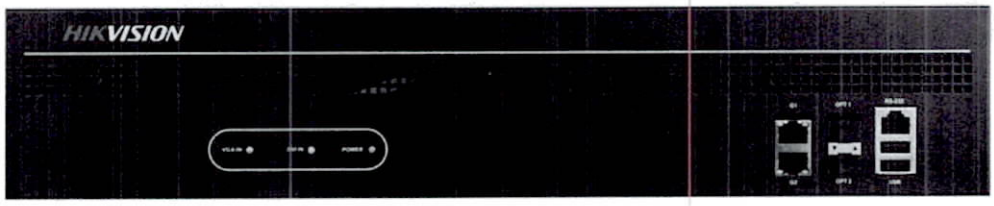
▪ Specification

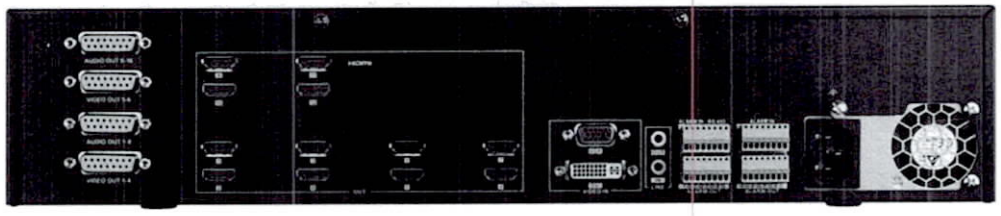
	Model	DS-6912UDI
Input/Output	Input	VGA, DVI-I
	Input Resolution	VGA, DVI-I: 1080p: 1920 × 1080@50/60 Hz, 720p: 1280 × 720@50 Hz/60 Hz
	Output	HDMI × 12, BNC × 6 (DB15 × 2)
	Output Resolution	HDMI: 4K: 3840 × 2160@30 Hz (for odd interface only) , 1080p: 1920 × 1080@50/60 Hz, 720p: 1280 × 720@50 Hz/60 Hz BNC: PAL: 704 × 576, NTSC: 704 × 480
Decoding	Decoding Resolution	Up to 24MP (only for 3 encoder tracks mode)
	Decoding Channel	96-ch
	Decoding Capability	24MP@30fps: 6-ch, 12MP@20fps: 12-ch, 8MP@30fps: 24-ch, 5MP@30fps: 36-ch, 3MP@30fps: 60-ch, 1080p@30fps: 96-ch
	Split Screen	1/4/6/8/9/12/16/25/36
Interface	Network Interface	2 (10/100/1000 Mbps Ethernet interface)
	Serial Interface	RS-232 (RJ45) × 1, RS-485 × 1
	Two-way Audio Out	1 (3.5 mm connector, 2.0 Vp-p, 1 KΩ)
	Two-way Audio In	1 (3.5 mm connector, 2.0 Vp-p, 1 KΩ)
	Alarm In	8
	Audio Output	12 (DB15 × 2)
	Alarm Out	8
General	Power Supply	100 to 240 VAC
	Power Consumption	≤ 108 W
	Dimensions(W × D × H)	440 mm × 321 mm × 88 mm (17.32 inch × 12.64 inch × 3.46 inch)
	Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)
	Working Humidity	10% to 90%
	Weight	≤ 6.4 kg (14.11 lb)

▪ Available Model

DS-6912UDI

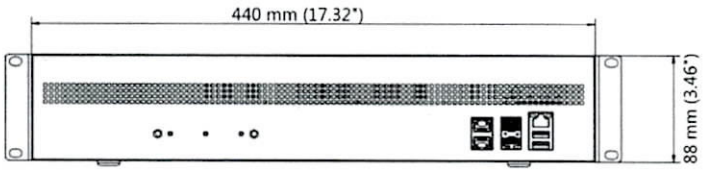
▪ Physical Interface

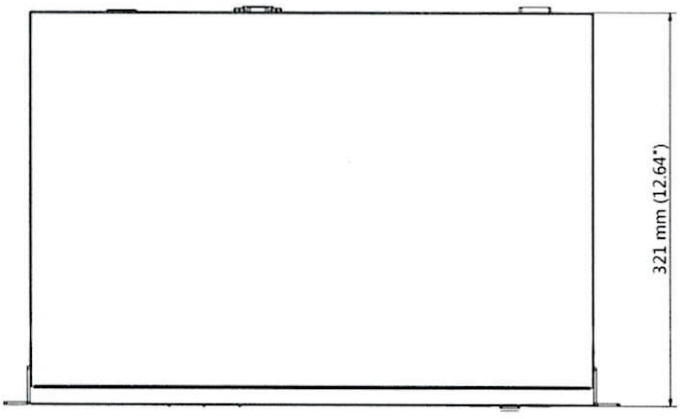


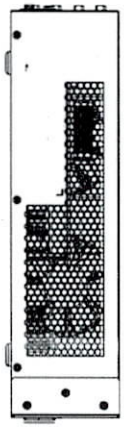


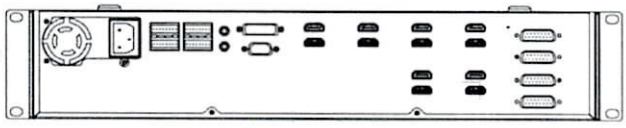
Front Panel	Description	Rear Panel	Description
VGA IN	VGA input signal indicator	AUDIO OUT	Audio out interface
DVI IN	DVI input signal indicator	VIDEO OUT	Video out interface
POWER	Power indicator	HDMI OUT	HDMI video output interface
G2	10/100/1000 Mbps Ethernet interface 2	VGA VIDEO IN	VGA video input interface
OPT2	10/100/1000 Mbps optical interface 2	DVI VIDEO IN	DVI video input interface
USB	USB 2.0 interface	LINE IN/OUT	Line input/output interface
G1	10/100/1000 Mbps Ethernet interface 1	RS-485	RS-485 interface
OPT1	10/100/1000 Mbps optical interface 1	ALARM IN	Alarm in interface
RS-232	RS-232 interface	ALARM OUT	Alarm out interface

▪Dimension









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HIKVISION

DS-A82 Series Hybrid SAN

Introduction

The DS-A82 series is a dual controller-structure Hybrid SAN(Storage Area Network). Hikvision Hybrid SAN product creates a network with access to data storage servers, and it integrates Hikvision's unique video direct streaming technology as well as supports IPSAN/FCSAN. This flexible, cost-effective solution features ONVIF-support to third-party cameras, support for RTSP, and SIP protocols, and extended data retention. With no recording server needed, Hikvision's Hybrid SAN systems truly make applications simple, flexible, and budget-friendly



Features

Reliable System

- Modular and no-cable design.
- Dual controller.
- Real-time cache.
- Optional BBU (Backup Battery Unit).

High-Performance and Extendable Hardware Platform

- 64-bit multi-core processor.
- PCI-E 2.0 bus.
- Four 1000M Ethernet interfaces per controller.
- SAS interface for storage enclosure.
- High-density chassis. 4U chassis: 24 HDDs.

HDD Detection and Repair/RAID Optimization

- Detection before operation.
- Detection in operation.
- Fault repair.
- RAID 0, 1, 3, 5, 6, 10, 50.
- Global and local hot spare.
- Quick RAID building.
- Capability of cascading up to two storage enclosures behind a single SAS port.

Advanced Data Protection

- Synchronous backup of key information in system disk and HDD.
- RAID-based tamper-proof data technology.
- Auto data synchronization between devices.

Energy Efficient

- CPU load balance.
- Auto fan tuning.

User-Friendly UI

- Quick configuration.
- Various alarm management.
- SADP protocol supported.
- SNMP supported.

Surveillance-Specialized Stream Media Direct Storage (Direct Streaming Mode)

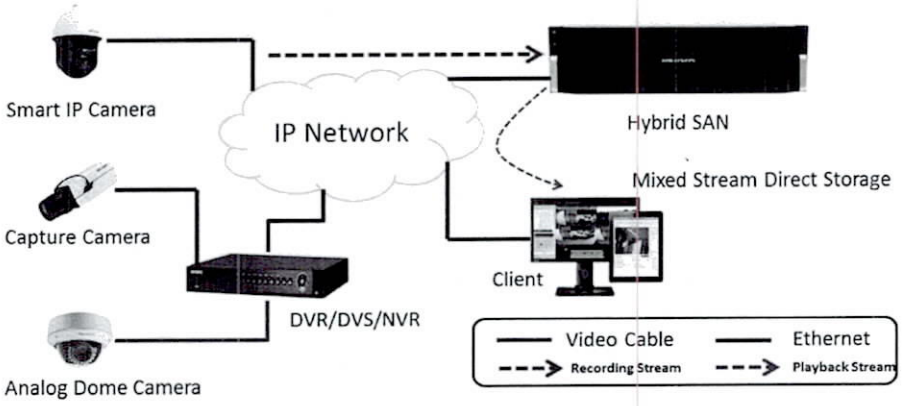
- Space pre-allocation strategy.
- Direct storage for video stream and picture stream.
- Supports direct IP camera/DVR/NVR streaming and recording.
- Supports camera access through RTSP, ONVIF, and PSIA protocol.
- Supports alarm/scheduled/manual recording.
- N+1 technology.
- Automatic network replenishment (ANR), timely uploading, and video loss alarm.
- Lock key videos.
- Supports both Direct Streaming Mode and IPSAN Mode.
- Search, play, and download videos by video type or video time.

HIKVISION

Specification

	Model	DS-A82024D
Performance	Direct Streaming mode: video (2 Mbps) + picture	448-ch (recording + playback)
	IPSAN	256-ch (recording + playback)
Controller	Controller	Dual controller
	Processor	64-bit multi-core processor
	Cache per controller	8 GB (extendable to 32 GB)/controller
HDD	HDD slot	24
	Interface/capacity	SSD (optional), SAS/1TB, 2TB, 3TB, 4TB, 6TB,8TB
	Hot-swapping	Supported
	HDD support	Single, RAID(Enterprise Hard Disk)
	RAID	RAID0, 1, 3, 5, 6, 10, 50, JBOD, Hot-Spare
Network	Protocol	iSCSI, RTSP, ONVIF, PSIA
Interfaces	Data network interface per controller	4, 1000M Ethernet interface (4 × GbE or 2 × 10GbE is extendable)
	Management network interface	1, 1000M Ethernet interface/Controller
	MiniSAS interface	Supported
	VGA per controller	1
	USB per controller	3
General	Power supply	Redundant
	Consumption (with HDDs)	• Working: ≤ 507 W (1729 BTU with 24 HDDs); • Rated: ≤ 800 W
	Environment temperature	• Working: +5 °C to +35 °C (41 °F to 95 °F) • Storing: -20 °C to +70 °C (-4 °F to 158 °F)
	Environment humidity	• Working: 20% to 80%RH (non-condensing/frozen); • Storing: 5% to 90%RH (non-condensing/frozen)
	Chassis	19-inch 4U
	Dimensions (W × H × D)	447 x 172 x 550 mm (17.6 x 6.8 x 21.7 in)
	Weight (without HDDs)	≤ 33.5 Kg (73.9 lb)

Typical Application



Available Models

DS-A82024D

Hikvision Tested and recommended HDDs

Seagate MakaraBP 5xxn config Series (eg. ST8000NM0075) / **Seagate MakaraBP 5xxe config Series** (eg. ST6000NM0095) / **Seagate MakaraBP Series** (eg. ST6000NM0034) **HGST 7k6000 series** (eg. HUS726060AL5210)

Note: Enterprise HDD strong recommended when used in RAID mode and ISCSI application due to more stability design features; if Surveillance HDD need to be Used, please consult with Hikvision Sales.

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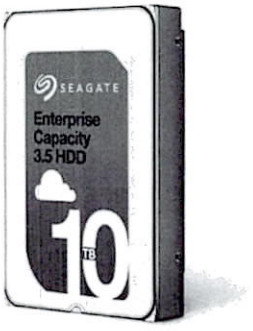
SEAGATE

Enterprise Capacity 3.5 HDD (Helium)

Channel Data Sheet

Maximum Storage Capacity for Highest Rack Space Efficiency

- 10TB per drive[1] for 25% more petabytes per rack[2]
- Industry's lowest power and weight for optimum data center TCO
- Highest 10TB HDD performance with enhanced caching, making it perfect for OLTP and HPC application
- Hyperscale SATA model tuned for large data transfers
- PowerBalance™ feature optimizes IOPS/Watt
- Advanced Write Caching feature for 20% boost in random write performance[2]
- Forged, wrought-aluminum base and a helium sealed-drive design with no porosity and uniform density
- Superior material and weld-width design for a more robust, hermetically sealed-drive enclosure that protects from helium leaks
- Digital environmental sensors for measuring internal humidity, pressure and temperature, helping to ensure high reliability, performance and quality
- Latest hermetic interconnect technology supporting higher data rate heads and higher pin counts for extreme thermal conditions
- Proven enterprise-class reliability backed by 2.5M-hr MTBF



Best-Fit Applications

- Hyperscale applications/cloud data centers
- Massive scale-out data centers
- OLTP and HPC applications
- High-capacity density RAID storage
- Mainstream enterprise external storage arrays
- Distributed file systems, including Hadoop and Ceph
- Enterprise backup and restore—D2D, virtual tape
- Centralized surveillance

1 Seagate recommends validating your configuration with your HBA, RAID controller/application and drives, full capacity capabilities.

2 Compared to 8TB competitive product.

SEAGATE

Enterprise Capacity 3.5 HDD (Helium)



Specifications	SATA 6Gb/s Hyperscale		SATA 6Gb/s Standard		12Gb/s SAS Standard
Capacity	10TB	8TB	10TB	8TB	10TB
Standard Model (512e)	—	—	ST10000NM0086	ST8000NM0206	ST10000NM0096
Hyperscale Model (512e)	ST10000NM0016	ST8000NM0016	—	—	—
Standard Model (4Kn)	—	—	ST10000NM0146	—	ST10000NM0206
SED Model (512e)	—	—	ST10000NM0156	—	ST10000NM0216
SED Model (4Kn)	—	—	ST10000NM0166	—	ST10000NM0226
SED-FIPS Model (512e)	—	—	ST10000NM0176	—	ST10000NM0236
SED-FIPS Model (4Kn)	—	—	ST10000NM0186	—	ST10000NM0246
Features					
Helium Sealed-Drive Design With Wide Weld	Yes	Yes	Yes	Yes	Yes
Digital Environmental Sensors	Yes	Yes	Yes	Yes	Yes
Protection Information (T10 DIF)	—	—	—	—	Yes
SuperParity	Yes	Yes	Yes	Yes	Yes
PowerChoice™/PowerBalance™ Technology	Yes	Yes	Yes	Yes	Yes
Low Halogen/Hot-Plug Support	Yes	Yes	Yes	Yes	Yes
Cache, Multisegmented (MB)	256	256	256	256	256
Organic Solderability Preservative	Yes	Yes	Yes	Yes	Yes
Reliability/Data Integrity					
Mean Time Between Failures (MTBF, hours)	2.5 Million	2.5 Million	2.5 Million	2.5 Million	2.5 Million
Reliability Rating @ Full 24×7 Operation (AFR)	0.35%	0.35%	0.35%	0.35%	0.35%
Nonrecoverable Read Errors per Bits Read	1 sector per 10E15	1 sector per 10E15	1 sector per 10E15	1 sector per 10E15	1 sector per 10E15
Power-On Hours per Year (24x7)	8760	8760	8760	8760	8760
512e Sector Size (Bytes per Sector)	512	512	512	512	512, 520, 528
4Kn Sector Size (Bytes per Sector)	—	—	4096	4096	4096, 4160, 4224
Limited Warranty (years)	5	5	5	5	5
Performance					
Spindle Speed (RPM)	7200	7200	7200	7200	7200
Interface Access Speed (Gb/s)	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	12.0, 6.0, 3.0
Max. Sustained Transfer Rate OD (MB/s, MiB/s)	249MB/s	249MB/s	254MB/s	249MB/s	254MB/s
Random Read/Write 4K QD16 WCD (IOPS)	170, 138	170, 138	170, 370	170, 370	170, 370
Average Latency (ms)	4.16	4.16	4.16	4.16	4.16
Interface Ports	Single	Single	Single	Single	Dual
Rotational Vibration @ 1500Hz (rad/s²)	12.5	12.5	12.5	12.5	12.5
Power Consumption					
Idle A (W) Average	4.5W	4.5W	4.5W	4.5W	5.5W
Max Operating Power, Random Write (WCD) 4K/4Q RR50% / RW50%	8.0	8.0	8.0	8.0	9.0
Max Operating Power, Random Read 4K/16Q (W)	8.4	8.4	8.4	8.4	9.4
Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V
Environmental					
Temperature, Operating (°C)	5°C – 60°C	5°C – 60°C	5°C – 60°C	5°C – 60°C	5°C – 60°C
Vibration, Nonoperating: 10Hz to 500Hz (Grms)	2.27	2.27	2.27	2.27	2.27
Shock, Operating 2ms (Read/Write) (Gs)	70/40Gs	70/40Gs	70/40Gs	70/40Gs	70/40Gs
Shock, Nonoperating, 1ms/2ms (Gs)	250Gs	250Gs	250Gs	250Gs	250Gs
Physical					
Height (mm/in, max)	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in
Width (mm/in, max)	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in
Depth (mm/in, max)	147.0mm/5.787in	147.0mm/5.787in	147.0mm/5.787in	147.0mm/5.787in	147.0mm/5.787in
Weight (g/lb)	650g/1.433lb	650g/1.433lb	650g/1.433lb	650g/1.433lb	650g/1.433lb
Carton Unit Quantity	20	20	20	20	20
Cartons per Pallet / Cartons per Layer	40 / 8	40 / 8	40 / 8	40 / 8	40 / 8

1 Invoice SPA required for all 8TB models and most SED and SED-FIPS models.
2 Self-Encrypting Drives (SED) and FIPS 140-2 Validated drives are not available in all models or countries. May require TCG-compliant host or controller support.
3 See FIPS 140-2 Level 2 Certificate at: http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401val2011.htm#1635.
4 Supports Hotplug operation per Serial ATA Revision 2.6 specification.
5 These base deck dimensions conform to the Small Form Factor Standard (SFF-8301) found at www.sffcommittee.org. For connector-related dimensions, see SFF-8323.

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HIKVISION

Teclado de red DS-1600KI(R)



Visión general

DS-1600KI(B) es la nueva generación de teclado de red totalmente táctil y desmontable desarrollado independientemente por Hikvision. Además de mostrar imágenes, la pantalla táctil capacitiva de 10,1" admite salida de vídeo DVI y HDMI. Se ejecuta en Android y has el nuevo diseño de interacción de interfaz de usuario. También es compatible con todas las series de dispositivos front-end y back-end de Hikvision, así como dispositivos de centro de control como la plataforma de administración de vídeo (VMS). Tiene la configuración abierta del número de punto de monitoreo, y los usuarios pueden organizar los números libremente según sea necesario. En la aplicación, los usuarios pueden llamar a los números rápidamente para mostrar el vídeo en el mural de vídeo, o salida de vídeos a la pantalla táctil o pantallas externas. Es compatible con la grabación, captura de imágenes y audio bidireccional, así como el control de pantalla y el interruptor de escena de VMS y dispositivo de decodificación. El joystick de 4 ejes se puede utilizar para el control PTZ para localizar el objetivo rápidamente. El panel del joystick es desmontable para la comodidad del funcionamiento del usuario. Este teclado puede ser ampliamente utilizado en la seguridad pública y las finanzas y otros campos.

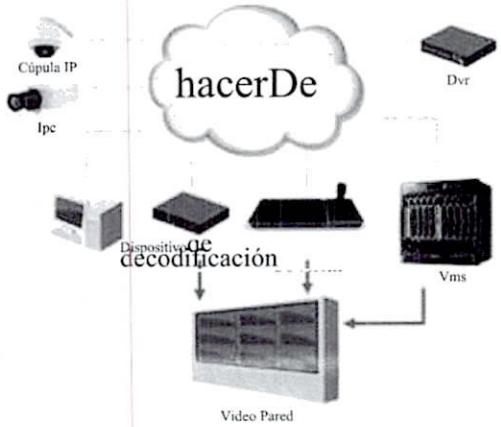
Módulo

DS-1600KI(B)

Características principales

- Pantalla táctil capacitiva de 10.1";
- Diseño desmontable de la pantalla táctil y el joystick;
- Conexión de red por cable y WiFi;
- PoE fuente de alimentación;
- Capaz de decodificar 2-ch a la decodificación 1080P; pantalla de ventana de hasta 16 divisiones;
- Vista en vivo en el panel táctil;
- Salida DVI y HDMI para monitorear;
- Controlable de 8000 dispositivos;
- Acceso a los productos Hikvision incluyendo DVR, DVS, NVR, cámara de red, cúpula de velocidad, etc.;
- Control de MVC y decodificadores para la decodificación de vídeo y salida en el mural de vídeo;
- Accesible a HikCentral
- Agregue cámaras en lotes importando un archivo de Excel desde una unidad USB
- PTZ control, ajuste y llamada preestablecido, patrulla y patrón;
- Soporte de actualización y configuración de archivos de importación / exportación por disco flash USB;
- Apoyar la grabación y la captura de imágenes; guardar archivos en un disco flash USB o cargarlos en el servidor FTP;
- La autoridad de usuario de dos niveles y hasta 32 cuentas de usuario son configurables: un administrador y 31 operadores.

Aplicación típica



Especificación

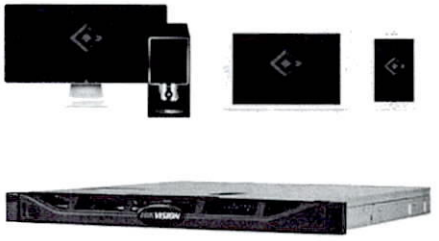
Modelo	**DS-1600KI(B)**
Sistema operativo	Android 6.0
Pantalla LCD TFT	Pantalla táctil TFT LCD de 10.1"
	Resolución: 1280 × 800
Joystick	Joystick de 4 ejes
Decodificación local	Vista en vivo local a resolución 1080P/720P/HD1/BCIF/CIF/QCIF, y hasta 16 divisiones de pantalla de ventana
Entrada de audio bidireccional	Conector de 1 canales y 3,5 mm (2,0Vp-p, >1k)
Salida de audio	Conector de 1 canales y 3,5 mm (2,0 Vp-p, 600 Ω)
Interfaz de red	Puerto Ethernet adaptable 10M/100M/1000M
Wifi	Apoyado
Interfaz USB	USB 2.0 × 2
Interfaz de vídeo	HDMI, DVI
Fuente de alimentación	12V DC /POE
Consumo	≤15W
Temperatura de trabajo	-10 grados Celsius ----55 grados Fahrenheit
Humedad de trabajo	10%--90%
Dimensiones (× D × H)	404 × 180 × 163 mm
Peso	1.7 Kg

572
660



HikCentral Professional V1.5
Datasheet

Introduction



HikCentral Professional is a flexible, scalable, reliable and powerful central surveillance system. It can be delivered after pre-installed on Dell server. HikCentral Professional provides central management, information sharing, convenient connection and multi-service cooperation. It is capable of adding devices for management, live view, storage and playback of video files, alarm linkage, access control, time and attendance, facial identification, and so on.

Key Components

System Management Service (SYS)
Application Data Service (ADS)
Streaming Service (Optional)
Web Client/Control Client/Mobile Client

System Requirements

Feature	Description
OS for HikCentral Professional Server	Microsoft® Windows 7 SP1 (64-bit) Microsoft® Windows 8.1 (64-bit) Microsoft® Windows 10 (64-bit) Microsoft® Windows Server 2008 R2 SP1 (64-bit) Microsoft® Windows Server 2012 (64-bit) Microsoft® Windows Server 2012 R2 (64-bit) Microsoft® Windows Server 2016 (64-bit) Microsoft® Windows Server 2019 (64-bit) **For Windows 8.1 and Windows Server 2012 R2, make sure it is installed with the rollup (KB2919355) undated in April, 2014.*
OS for Control Client	Microsoft® Windows 7 SP1 (32/64-bit) Microsoft® Windows 8.1 (32/64-bit) Microsoft® Windows 10 (64-bit) Microsoft® Windows Server 2008 R2 SP1 (64-bit) Microsoft® Windows Server 2012 (64-bit) Microsoft® Windows Server 2012 R2 (64-bit) Microsoft® Windows Server 2016 (64-bit) Microsoft® Windows Server 2019 (64-bit) **For Windows 8.1 and Windows Server 2012 R2, make sure it is installed with the rollup (KB2919355) undated in April, 2014.*
Browser Version	Internet Explorer 10/11 and above

	Chrome 61 and above Firefox 57 and above Safari 11 and above (running on Mac OS X 10.3/10.4)
Database	PostgreSQL V9.6.13
OS for Smartphone	iOS 10.0 and later Android phone OS version 5.0 or later, and dual-core CPU with 1.5 GHz or above, and at least 2G RAM
OS for Tablet	iOS 10.0 and later Android tablet with Android OS version 5.0 or later
Virtual Machine	VMware® ESXi™ 6.x Microsoft® Hyper-V with Windows Server 2012/2012 R2/2016 (64-bit) **The Streaming Server and Control Client cannot run on the virtual machine.*

Function Features

SYS Server

- Provides normal and hot spare installation mode
- Provides centralized management for users, roles, permissions, surveillance devices, and servers
- Provides log management and statistics function
- Scalable for medium and large-sized projects
- Manages Remote Sites for HikCentral Professional with RSM module
- Service manager for system health monitoring
- Streaming gateway: a component that forwards and distributes audio and video data as well as forwards signaling

ADS Server

- Processes and stores the application data of the system

Streaming Service

- Forwards and distributes audio and video data

Web Client

- Access the system via IP address or domain name
- License management
  - Online or offline activation
  - Online or offline update
  - Online or offline deactivation

- Set added cameras as facial recognition cameras, ANPR cameras, and thermal cameras (report supported)

- Startup wizard guides you through basic operations including
  - Adding encoding devices
  - Adding access control devices
  - Configuring event parameters
  - Managing system users
- Supports standard ONVIF™ protocol
- Encoding device management
  - Multiple devices can be added: network cameras, network speed domes, video encoders, NVRs, etc.
  - Create password for inactive encoding device(s)
  - The password strength of the added encoding device can be checked by the system for security purpose
  - Six adding modes for encoding devices in Hikvision private protocol available:
    - ✓ By detecting online devices in the same subnet with the SYS server or current PC
    - ✓ By specifying the device IP address or domain name
    - ✓ By adding the devices added to a Hik-Connect account
    - ✓ By specifying an IP segment
    - ✓ By specifying a port segment
    - ✓ By importing in a batch
  - Three adding modes for encoding devices in Hikvision EHome protocol available:
    - ✓ By specifying the device ID and key
    - ✓ By specifying an ID segment
    - ✓ By importing in a batch
  - Set time zone for the device
  - Limitation of bandwidth for video downloading for specific NVRs
  - N+1 hot spare for the added NVRs
- Access control device management
  - Create password for inactive access control device(s)
  - The password strength of the added access control device can be checked by the system for security purpose
  - Four adding modes for access control devices in Hikvision private protocol available:
    - ✓ By detecting online devices in the same subnet with the SYS server or current PC
    - ✓ By specifying the device IP address
    - ✓ By specifying an IP segment
    - ✓ By importing in a batch
  - Three adding modes for access control devices in Hikvision EHome protocol available:
    - ✓ By specifying the device ID and key
    - ✓ By specifying an ID segment
    - ✓ By importing in a batch
  - Set time zone for the device
- Elevator control device management
  - Create password for inactive elevator control device(s)

- The password strength of the added elevator control device can be checked by the system for security purpose
- Four adding modes for elevator control devices in Hikvision private protocol available:
  - ✓ By detecting online devices in the same subnet with the SYS server or current PC
  - ✓ By specifying the device IP address
  - ✓ By specifying an IP segment
  - ✓ By importing in a batch
- Set time zone for the device

- Security control device management
  - Create password for inactive security control device(s) (such as security control panel, panic alarm station, etc.)
  - The password strength of the added security control device can be checked by the system for security purpose
  - Six adding modes for security control devices in Hikvision private protocol available:
    - ✓ By detecting online devices in the same subnet with the SYS server or current PC
    - ✓ By specifying the device IP address
    - ✓ By adding the devices added to a Hik-Connect account
    - ✓ By specifying an IP segment
    - ✓ By specifying a port segment
    - ✓ By importing in a batch
  - Three adding modes for security control devices in Hikvision EHome protocol available:
    - ✓ By specifying the device ID and key
    - ✓ By specifying an ID segment
    - ✓ By importing in a batch
  - Set time zone for the device
- Dock station management
  - The password strength of the added dock station can be checked by the system for security purpose
  - Four adding modes for dock stations available:
    - ✓ By specifying the device IP address
    - ✓ By specifying an IP segment
    - ✓ By specifying a port segment
    - ✓ By importing in a batch
  - Set time zone for the device
- Restore or reset passwords for detected online devices
- Upgrade device firmware version
- Remote Site's central management:
  - Add Remote Site to the Central System (HikCentral Professional with an RSM module). Three adding modes for Remote Sites available:
    - ✓ By specifying the Remote Site's IP address or domain name
    - ✓ Adding Remote Site registered to the Central System.
    - ✓ By importing in a batch
  - Select the alarms configured on the Remote Site to receive in the Central System.
  - Back up the Remote Site's database in the Central System manually or regularly.

- Synchronize the changed resources in the Central System (newly added cameras, deleted cameras, and name changed cameras) with the Remote Site.

- In distributed deployment, the SYS and ADS services can be installed on different servers:
  - Add ADS to the system and set standby server if necessary
  - Provides encrypted transmission between ADS and other services or clients
  - Notify admin user if ADS or standby ADS fails and show fault details
  - Standby ADS takes over automatically if ADS fails
  - Manually switch to standby ADS if necessary
- Recording Server management
  - Add pStor, Hybrid Storage Area Network (Hybrid SAN), NVR, or Cloud Storage Server as a Recording Server
  - Add pStor, Hybrid SAN, NVR, or Cloud Storage Server by IP address
  - Provides WAN access
  - Remotely configure the added pStor, Hybrid SAN, NVR, or Cloud Storage Server via a web browser
  - One-touch configuration for setting the Hybrid SAN storage
  - Set custom video copy-back for Hybrid SAN
  - Hybrid SAN N+1 hot spare
  - Provides ANR function
- Streaming Server management
  - Add Streaming Server by IP address
  - Provides WAN and LAN access
- DeepinMind Server management
  - Add facial recognition server by IP address
  - Add behavior analysis server by IP address
  - Provides WAN access
  - Link cameras and face comparison group(s) with facial recognition server
  - Link cameras with behavior analysis server and set analysis task
- Security Audit Server management
  - Add security audit server by IP address
  - Link encoding devices with security audit server for receiving security audit exception logs
- Smart wall management
  - Create password for inactive decoding device(s)
  - The password strength of the added decoding device can be checked by the system for security notification
  - Four adding modes for decoding devices available:
    - ✓ By detecting online devices in the same subnet with the SYS server or current PC
    - ✓ By specifying the device IP address
    - ✓ By specifying an IP segment
    - ✓ By specifying a port segment
  - Set cascade for decoders via a video wall controller to realize cross-decoder functions
  - Add smart wall and link decoding output with the window
- Manage resources (cameras, alarm inputs, alarm outputs, doors, elevators, and UVSSs) by

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areas

- Recording
  - Two storage methods for storing the video files:
    - ✓ Encoding Device: DVR/NVR/ network camera (SD card);
    - ✓ Recording Server: pStor, Hybrid SAN, NVR, or Cloud Storage Server
  - For Remote Site's cameras, store video files in the Central System's pStor, Hybrid SAN NVR, or Cloud Storage Server
  - Continuous recording, event triggered recording, and command triggered recording.
  - Set uploading schedule to upload the specific type of video files stored in one storage medium to the selected storage location
  - Set recording schedule: All-Day Time-Based Template, All-Day Event-Based Template, and Custom Template
  - Auxiliary storage
- Picture storage
  - Store the images uploaded from the devices, such as alarm triggered pictures, captured face pictures, and captured plate license pictures on the HDD of SYS server, Hybrid SAN, Cloud Storage Server, or pStor.
  - Store the pictures imported by the users, such as the original undercarriage pictures imported when adding vehicles, static map pictures, the face pictures in the person list, on the HDD of SYS server.
- Configure visual tracking by associating one camera with other cameras nearby, so that you can track an individual (such as a suspect) across different areas without losing sight of the individual.
- Edit door's parameters
  - Edit basic information
    - ✓ Door contact: Normally Open / Normally Closed
    - ✓ Exit button type: Normally Open / Normally Closed
    - ✓ Open duration(s)
    - ✓ Extended open duration(s)
    - ✓ Door open timeout alarm
    - ✓ Duress code
    - ✓ Super password
    - ✓ Dismiss code
    - ✓ Free access schedule
    - ✓ Access forbidden schedule
  - Set related camera(s) to view the video on Control Client
  - Set picture storage for access control terminal
  - Edit application settings
    - ✓ Entry & exit counting
    - ✓ Multi-door interlocking
    - ✓ Anti-passback
    - ✓ Open door with first card
    - ✓ Multi-factor authentication
  - Edit hardware settings

- ✓ Edit card reader related parameters: OK LED Polarity, Error LED Polarity, Buzzer Polarity
- ✓ Set card reader's access mode
- ✓ Set minimum card swiping interval
- ✓ Specify the seconds after which the entry on keypad will be reset
- ✓ Enable failed card attempt alarm
- ✓ Enable tampering detection

➢ Link facial recognition terminals with turnstile

- Edit elevator's parameters
  - ➢ Edit basic information
    - ✓ Open duration(s)
    - ✓ Extended open duration(s)
    - ✓ Elevator door open timeout alarm
    - ✓ Duress code
    - ✓ Super password
    - ✓ Dismiss code
  - ➢ Set floors of the elevator
    - ✓ Free access schedule
    - ✓ Access forbidden schedule
    - ✓ Access level
    - ✓ Edit floor name
    - ✓ Reset imported floor No.
  - ➢ Set related camera(s) to view the video on Control Client
  - ➢ Edit hardware settings
    - ✓ Edit card reader related parameters: OK LED Polarity, Error LED Polarity, Buzzer Polarity
    - ✓ Set card reader's access mode
    - ✓ Set minimum card swiping interval
    - ✓ Specify the seconds after which the entry on keypad will be reset
    - ✓ Enable failed card attempt alarm
    - ✓ Enable tampering detection
- Edit radar's parameters
  - ➢ Edit basic information including name
  - ➢ Add radar on map
  - ➢ Configure radar zone on the map
  - ➢ Set related calibrated cameras
- Set resource groups
  - ➢ Alarm group
  - ➢ Entry & exit counting group
  - ➢ People counting group
  - ➢ Heat analysis group
  - ➢ Pathway analysis group
  - ➢ Person feature analysis group
  - ➢ Multi-door interlocking group

- Anti-passback group
- Security control partition

- Events & Alarms
  - Set system-monitored events for the resources in the system
    - ✓ Camera events: motion, video loss, line crossing, etc.
    - ✓ Door events: normal card swiping, abnormal card swiping, etc.
    - ✓ Elevator events: normal card swiping, abnormal card swiping, etc.
    - ✓ Radar events
    - ✓ Device alarm input (including zones) events
    - ✓ Person event for face comparison (face matched or mismatched)
    - ✓ ANPR event (license plate matched or mismatched)
    - ✓ UVSS exceptions: UVSS online or offline
    - ✓ Remote Site exceptions: site offline
    - ✓ Resource group exceptions: person amount more/less than threshold
    - ✓ Device exceptions and operations: device offline, HDD full, HDD read/write error, etc. (including encoding devices, access control devices, elevator control devices, security control devices, decoding devices, and dock stations)
    - ✓ Server exceptions: high mainboard temperature, bad disk, disk loss, etc. (including Streaming Servers, Recording Servers, facial recognition server, and HikCentral Professional Server)
    - ✓ Security audit server events: critical events, normal events, serious events
    - ✓ User events: user login or logout
    - ✓ User-defined events
    - ✓ Generic events
  - Active control for events and alarms to avoid same event/alarm triggered in short time
  - Set event linkage actions such as recording, creating tag, capturing pictures, linking access points, linking alarm outputs, PTZ actions, sending emails, and triggering user-defined events
  - Send emails to notify users of triggered event information with email template configurable. For alarm input event, attach an entry & exit counting report in the email
  - Create a generic event rule to analyze the received TCP and/or UDP data packages, and trigger events
  - Customize a user-defined event to define the event which is not in the provided system-related event list. You can trigger it manually on the Control Client
  - Trigger the events as alarms and set alarm linkage actions including related cameras, related maps, pop-up window, displaying on smart wall (decoding or graphic), audible warning, and triggering user-defined event
  - Save event as alarm when editing event
  - In the Central System, detect camera alarms configured on Remote Site
  - Detect camera alarms, door alarms, alarm input alarms, ANPR alarms, person alarms, Remote Site alarms, device alarms, server exception alarms, user alarms, user-defined alarms, and generic alarms
  - Set arming schedule for the events: all-day template, weekday template, weekend template, and custom template

- Set arming schedule for the alarms: all-day template, weekday template, weekend template, custom template, or the alarms can be armed or disarmed when an event starts or ends
- Set alarm priority: high, medium, low, and custom
- Set alarm category: true, false, to be acknowledged, and to be verified

- Map management
  - Link e-map to area
  - Set map scale
  - Search locations on GIS map
  - Set the current site's and added Remote Site's location to the GIS map
  - Add/edit/delete the hot region on the map
  - Add/edit/delete hot spots region on the map
  - Add/edit/delete hot spots (camera/alarm input/alarm output/door/elevator/radar /UVSS) on the map
  - Add labels with description on the map
  - Locate resource groups on the map
- Vehicle management
  - Add vehicle information manually
  - Import vehicle information according to the pre-defined template
  - Set effective period for the added vehicles
- Person management
  - Add person group
  - Link person group with access group and attendance group
  - Add person information one by one
  - Custom the properties of person addition information, which are not pre-defined in the system
  - Import information of multiple persons in a batch by importing an Excel file
  - Import information of multiple persons in the domain in a batch
  - Import multiple persons' profiles in a batch
  - Import person information from added devices
  - Profile format: JPG, JPEG, and PNG
  - Verify face quality by added access control device when collecting profile by added device
  - Enable the person profile as the person's face credential which is used when access via face recognition terminal
  - Issue cards to multiple persons in a batch
  - Report card loss for person if the card is lost, and issue a temporary card
  - Cancel card loss if the lost card is found
  - Set credentials under duress and credentials for dismiss for persons
- Access control
  - Group persons with same access permission into access groups
  - Link access group with person group
  - Group access points into access levels and set schedule to define the authorized time periods

- Assign the access level to access group
- Apply all the access groups to device manually or regularly
- Set access control schedule including weekly schedule and holiday schedule
- Set anti-passback rule
- Set multi-door interlocking rule
- Set multi-factor authentication rule
- Set entry & exiting counting rule

- Visitor management
  - Add visitor group
  - Add visitor one by one
  - Import information of multiple visitors in a batch by importing an Excel file
  - View and delete visitors in visitor list
  - Apply visitor's access levels to device
  - Visitor check-out: manually check-out and automatically check-out
- Time and attendance
  - Group persons into attendance groups
  - Link attendance group with person group
  - Add normal shift schedule
  - Add man-hour shift schedule
  - Assign shift schedule to attendance group
  - Set attendance parameters
    - ✓ Define weekends
    - ✓ Define absence
    - ✓ Set overtime parameters
    - ✓ Add attendance check point
    - ✓ Manage leave type
  - Search attendance records
  - Handle attendance records
    - ✓ Correct single person's attendance record
    - ✓ Correct multiple persons' attendance records
    - ✓ Apply for leave for single person
    - ✓ Apply for leave for multiple persons
  - Manually calculate attendance results
  - Get attendance records from device
  - Set display rule for attendance reports
  - Export attendance reports
  - Synchronize access records to third-party database
- Face comparison
  - Group persons into face comparison groups
  - Set similarity threshold when adding face comparison
  - Apply the face comparison group to device
- Security control
  - Import added security control panel's alarm inputs into different security control partitions according to the relation between zones and partitions configured on device

- Set defense schedule to define when and how to arm the alarm inputs

- Dock station group
  - Group persons into dock station groups
  - Link dock station(s) to dock station group and the videos and pictures on the person's body cameras can be copied to the linked dock station(s)
- Role & User management
  - The default password of the admin user must be changed at first-time login.
  - Support changing the password of the admin user
  - The admin user can reset other users' password
  - The user account will be frozen for 30 minutes after 5 failed password attempts
  - Add/edit/delete roles and users
  - Role's permission applicable for rental scenario
  - Assign permission schedule template to role to define when the role's permissions are valid
  - Roles can be assigned with different permissions, including area display rule, resource access, and user permissions
  - Two default roles are supported: administrators and operators
  - The role name, expiry date, and text description can be set for the roles
  - The users can be assigned with the roles to obtain the corresponding permissions
  - The user name, expiry date, and text description can be set for the users
  - Two types of user status are supported: active and inactive
  - Set an email address for the added user so that he/she can reset the password via email if he/she forgot the password
  - PTZ control permission level (1~100) can be set
  - Domain users can be imported in batches
  - The user can be forced to logout by the admin user
- Security settings
  - Lock IP address for configurable duration when reaching the configured failed password attempts
  - Set the minimum password strength
  - Set the maximum password age
  - Lock the Control Client after a time period of inactivity
- System configuration & maintenance
  - Create a name for the current site
  - Set the first time of the week
  - Set the unit for the temperature
  - Enable GIS map function, configure the map API URL, and customize the icons of hot region and hot spot
  - Set the threshold for the SYS server's CPU usage and RAM usage
  - NTP settings
  - Active directory settings
  - Link person information in the domain with the person information in the system
  - Allow the system to receive the configured generic events.
  - For Central System, allow Remote Site registration

- For Remote Site, register Remote Site to Central System
- A static IP address or a domain name can be set for the WAN access
- Set network timeout (default waiting time) for the configurations on the Web Client
- Set device access mode as automatically judge or proxy mode
- SYS server NIC settings
- Set the retention period for storing the data recorded in system
- Pre-define schedule templates including recording schedule, arming schedule, access schedule, permission schedule, and defense schedule
- Pre-define email templates
- Pre-define rules for regular report so that the system can send a report to the receivers regularly, with content including events, alarms, passing vehicles, people counting, queue status, heat map, pathway analysis, temperature, attendance records, device logs, resource logs, etc.
- Enable evidence collection so that operators can save video footage as evidence on the Control Client
- Set unique IDs for the cameras in the system
- Set working mode as face recognition terminals or access control terminals for the managed DS-5600 face recognition series
- Set transfer protocol as HTTP or HTTPS
- Enable encrypted transmission between ADS and SYS
- Add fuzzy matching rules for license plate search
- System hot spare settings
- Reset network information of added devices
- Export service component certificate from SYS server
- Set frequency for health check
- Set open platform
- Set database password

- Backup and restore database
- Live view
  - View real-time video from the cameras on the current site or cameras imported from a Remote Site
  - PTZ control
  - Manual recording
  - Capture
  - Instant playback
  - Digital zoom
  - Two-way audio
  - Switch between main stream or sub-stream
  - Display live view parameters.
  - Turn on/off the audio in live view; adjust the volume
  - Set the window division
  - POS Live View
    - ✓ Display transaction data alongside corresponding video
    - ✓ Transaction information video overlay/separate display

- Playback
  - Play the recorded video of the cameras on the current site and cameras imported from a Remote Site
  - Playback by timeline
  - Playback for up to 16 cameras
  - Download the recordings for backup
  - Reverse playback
  - Playback frame-by-frame
  - Single-frame backward
  - Slow forward/fast forward
  - Turn on/off the audio in playback; adjust the volume
  - Video clipping and capture
  - Set the window division
  - Digital zoom
  - Display video parameters
  - Customize playback speed
  - Select storage location and stream type for playback
- Local configuration
  - Set the network transmission settings
    - ✓ GPU hardware decoding
    - ✓ Stream type for global usage: main stream, sub-stream, and smooth stream
    - ✓ Set the window proportion threshold for switching between main stream or sub-stream
    - ✓ Network timeout: default waiting time for the operations in Applications on the Web Client
    - ✓ Video caching: small (1 frame)/medium (6 frames)/large (15 frame)
    - ✓ Captured picture format: JPEG/BMP
    - ✓ Device access mode: restore default/automatically judge/directly access/proxy
  - View local saving path of videos or pictures
- Intelligent analysis
  - Report dashboard
  - People counting report
  - Queue analysis report
  - Heat analysis report
  - Pathway analysis report
  - Person feature analysis report
  - Temperature analysis report
  - Vehicle analysis report

Control Client

- Customize the module arrangement on the control panel
- GPU hardware decoding

- Receive alarm
- Access to SYS via IP address and domain name
- Log in with the domain user
- The user account will be frozen after 5 failed password attempts
- The window division is self-adaptive according to the number of cameras under live view or playback
- Live view
  - View real-time video from the cameras on current site or cameras imported from Remote Site
  - PTZ control
  - PTZ control lock/unlock
  - Public view and private view
  - Auto-switch one area's cameras
  - Auto-switch one view's cameras
  - Auto-switch one view group's views
  - Manual recording
  - Capture
  - Instant playback
  - Visual tracking
  - Auxiliary screen preview
  - Digital zoom
  - Two-way audio
  - Turn on/off the audio in live view; adjust the volume
  - Camera status detection
  - Arming control
  - Switch the live view stream to main stream, sub-stream, or smooth stream
  - Start live view on smart wall
  - View fisheye camera's live view in fisheye dewarping modes
  - View detected events in live view, including resource events, face comparison events, and access events
- Playback
  - Normal playback for continuous recordings
  - VCA playback based on motion analysis/intrusion/line crossing events
  - Async/Sync playback for up to 16 cameras
  - Playback in fisheye dewarping mode
  - Add default, customized tag to mark the important video footage
  - Play the tagged video footage
  - Play by files/timeline
  - Visual tracking
  - Lock/unlock the video file for file protection
  - Download the video files
  - Reverse playback
  - Single-frame backward
  - Playback frame-by-frame

- Slow forward/fast forward
- Customize high speed playback settings
- Turn on/off the audio in playback; adjust the volume
- Provide video thumbnail on the timeline
- Accurate positioning for playback
- Digital zoom
- Video clipping
- Capture
- Camera status detection
- Arming control
- Switch the video stream to main stream, sub-stream, or smooth stream
- Playback on smart wall
- Transcoding playback
- Extract frames to play the images one by one

- Manage captured pictures and recorded/clipped video footage during live view and playback which are stored in local PC
- Map control
  - View the geographic locations of resources on the map
  - Get the live view and playback of the cameras and other related cameras of the resources on the map
  - Arming control: arm and disarm cameras, alarm inputs, UVSSs, doors, and other resources on the map
  - Search and view history alarms of cameras, alarm inputs, UVSSs, doors, and other resources on the map
  - Get a notification message on the map when alarm is triggered
  - View resource groups on map
  - Jump to the hot region map
  - Zoom in/out on the map
  - Select resource(s) on the map
  - Add labels with description on the map
  - Print map
  - Locate resource on the map
  - View the live video or playback of the resources on the map
  - Control access points on map
  - Search and view access records
- Alarm center
  - Display alarm info including alarm time, alarm name, alarm status, etc.
  - Display system alarm info including time and description
  - Play the video from the alarm time
  - Visual tracking
  - View the live video from the related camera
  - Play the alarm related video on smart wall
  - Add a tag to the alarm information
  - Acknowledge an alarm with a text description

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- Acknowledge multiple alarms in a batch
- Arming control for alarms
- Sort alarms by the selected property
- Clear alarms manually
- Enable/disable the alarm audio
- Enable/disable alarm triggered pop-up window
- Search event log files and alarm log files
- Manually trigger user-defined event

- ANPR control
  - View ANPR camera's live view and view recognized license plate number
  - Mark the detected vehicle
  - Add the new detected vehicle to the vehicle list
  - Search logs of vehicle license plate recognized by the camera and the related vehicle passing information
  - Search logs of passing vehicles with no license plate
- UVSS control
  - View UVSS' live view and view captured undercarriage pictures of the passing vehicles and license plate number
  - Mark on undercarriage picture
  - Mark the detected vehicle
  - Add the new detected vehicle to the vehicle list
  - Search logs of vehicle license plate recognized by the camera and the related vehicle passing information
- Face comparison
  - View capture camera's live view and view detected and matched persons
  - View the face comparison information
  - Add mismatched persons to person list
  - Upload a face picture to search the video when the face picture captured
  - Subscribe to receive face matched/mismatched events from all the face comparison groups
  - Search capture face pictures and related video by uploading a picture
  - Search matched face pictures and related video by selecting face comparison groups
  - Search frequently appeared persons
  - Search archives
  - Identity verification
- Access control and elevator control
  - View live videos of door and elevator's related camera(s)
  - Play back the recorded video footage of door/elevator's related camera(s)
  - Visual tracking
  - Control doors to lock, unlock, remain locked, or remain unlocked
  - Control floors status as temporary access, access with credential, free access, or access forbidden.
  - View the card swiping record in real time
  - Search the access records triggered on the added access points

- Subscribe to receive access events from all the access points
- Forgive anti-passback violations
- Entry & exit counting
- Open door for multi-factor authentication
- Handle opening door request from video access control terminal

- Security control
  - View live video of the radar's calibrated cameras
  - Arm or disarm partitions
  - Bypass zones
  - Bypass recovery
  - Clear alarms
- Video search
  - Search video files stored on local devices or Recording Server
  - Search the video clip by time range
  - Search tagged/locked video
  - Search in storage location in Main Storage or Auxiliary Storage
  - Search the transaction event by entering the keywords in POS information
  - Search ATM event by entering card number that is contained in the ATM information
  - Search the video/picture/audio stored on dock station
  - Set VCA rules to search the video where a VCA event occurs
  - Play the searched video clip
  - Visual tracking
  - Download the searched video clip
- Intelligent analysis report
  - Report dashboard
  - People counting report: Generate a report for the added people counting camera(s) to view the number of people entered, exited, or both entered and exited
  - Queue analysis report: Generate a report to show the number of queue exceptions and number of persons in each queue, and show the queue status including waiting duration and queue length
  - Heat analysis report: Generate a report to analyze the visit times and dwell time of customers
  - Pathway analysis report: Generate a report to analyze the people counting on the pathways in shopping mall
  - Person feature analysis report: Generate a report to analyze features (including age and gender) of recognized human faces
  - Temperature report: Generate a report to show the number of exceptions (temperature too high or too low) and maximum/minimum temperature of different thermometry points
  - Vehicle analysis report: Generate a report to show the number of passing vehicles detected by the ANPR cameras during specified time period
  - Export report and save in local PC
- Health monitoring
  - Real-time status overview of the resources, including cameras, access points, UVSSs,