



Integrated IP Video Surveillance Solution

IDIS SOLUTION
SUITE®



Modular and Scalable Next Generation VMS

- Centralised monitoring service covering small to large business
- Multiple tab basis for easy and powerful operation with multiple monitors
- Thorough event management by event forwarding, acknowledgement, notifications and live popup
- Intuitive user interface minimizing mouse and keyboard control
- Simultaneous remote upgrade for multiple devices
- Monitoring status of all registered devices at a glance
- Simplest map registration, but diverse utilization:
 - * Simple drag and drop registration
 - * Path sequence and auto focusing of event triggered location
- Optimising network bandwidth by dynamic multi-stream control and multi-view (ROI)

 **IDIS**® One Solution.
One Company.

IDIS delivers total surveillance solutions combining highest quality, world-class performance, and a low total cost of ownership. An easy fit for any requirement, IDIS also easily scales and adapts to meet future ones.

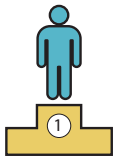
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A True One Stop Shop Solution

IDIS is a global security company which designs, develops, manufactures, and markets surveillance solutions. We provide an extensive range of cameras, DirectIP™ network video recorders (NVRs), DirectCX TVRs, switches, video management software (VMS), and accessories, all fully compatible with one another.

02



Industry Leading Quality

The IDIS Total Solution is easily customized, adapted, and scaled and combines unrivalled high performance with quality and reliability.

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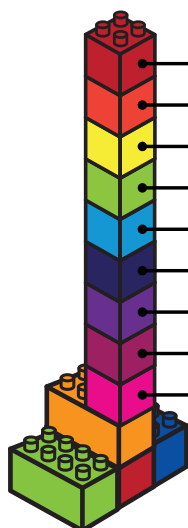
Low Total Cost of Ownership

With no software support agreements, automatic system health checks, and many more cost, time, and resource-saving components, IDIS offers a business model that is budget-friendly and provides longer product life.

What is IDIS SOLUTION SUITE?



IDIS Solution Suite can work together with network cameras, DirectIP NVRs, and DirectCX TVRs while providing superior image quality and extensive coverage. IDIS Solution Suite allows you to manage an unlimited number of devices and to customize your surveillance system cost effectively. IDIS Solution Suite comes from a deep understanding of market requirements and customer needs. With our market-proven products like NVRs and TVRs, network cameras, and encoders and decoders, IDIS Solution Suite is one of the best network-based video surveillance solutions on the market.



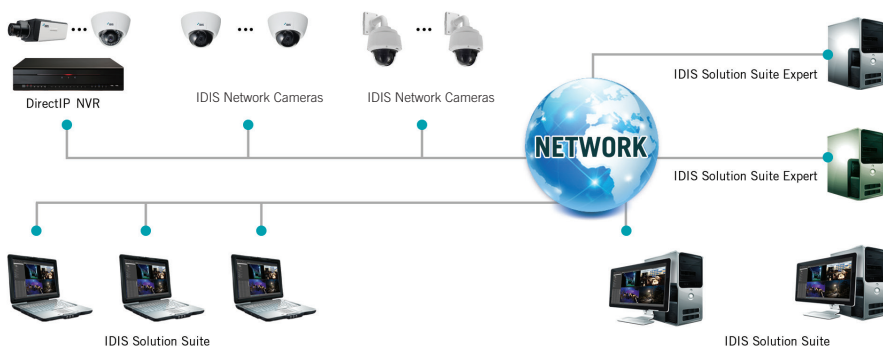
- **Administration** – Central management of devices, services, users and licenses
- **Monitoring** – Central event management and routing
- **Streaming** – Relay and multiply video streams for multiple remote clients
- **Recording** – Recorded video, audio and metadata
- **Redundant** – Tandem recording to a physically separate PC server
- **Backup** – Archived data from recording service and devices
- **Video Wall** – Video wall control and management
- **Federation** – Support for large projects with practically unlimited devices
- **Failover** – Service level redundancy for mission critical applications

IDIS Solution Suite is a highly scalable and fully integrated network video surveillance solution.

IDIS Solution Suite is suitable for both large enterprise customers as well as smaller surveillance operations for home security and small business. IDIS Solution Suite Expert provides a general purpose network video recording application that will satisfy a wide range of customer requirements without complicated licensing structures. IDIS Solution Suite Expert is the perfect solution for project-based surveillance rollouts as it optionally integrates and transforms to exact customer requirements. Born out of IDIS's deep understanding of the surveillance market and a huge range of customer applications, IDIS Solution Suite Expert is exceptionally scalable and flexible.

Using proven IDIS products, including megapixel cameras and keyboards, the system is expandable to ensure a future-proof surveillance solution.

NETWORK CONFIGURATION OF IDIS SOLUTION SUITE EXPERT



Key Benefits



Performance

IDIS Solution Suite supports Full HD live and record at 30ips up to 1,024 channels.*



Easy Installation

IDIS Solution Suite enables true plug-and-play installation with IDIS's proprietary dynamic domain name service, For Every Network (FEN), which is an automated network configuration service that allows you to eliminate the need for costly installation and integration support.



Reliability

Based on IDIS's proprietary multimedia file system, iBankDB, IDIS Solution Suite supports stable multi-channel video recording and outstanding searching performance. In addition, failover, backup, and redundancy functionality improve its reliability while operating consistently without any failure.



Usability

IDIS Solution Suite provides intuitive GUI that lets you operate your surveillance system more easily and quickly.



Scalability

The scale of IDIS Solution Suite is not measurable because any number of services can be coupled to one solution. This means any enterprise-level solution can be covered with IDIS Solution Suite.

* Depending on the number of simultaneous remote clients, up to 64 IDIS Solution Suite Streaming servers and recording service can be used without an additional license fee.

Reliability



iBankDB

iBankDB is IDIS's proprietary multimedia file system and database architecture.

Featuring the latest version of the iBankDB file system, DirectIP NVRs provide effective and robust data recording, searching, and management as below.

- Restore and restructure the damaged area that contains index information
- Improve multi-channel video recording and searching performance
- Effective text searching functionality
- Delivers the industry's lowest hard disk drive (HDD) failure rate

Non-linear Time Shifting Recording



With the Non-linear Time Shifting Recording technique, IDIS Solution Suite Recording service can minimize video frame loss even under unstable network conditions for supported devices. When the network fails, up to several minutes of video data will be instantly stored in the IP camera's internal buffer memory and is then automatically transferred to IDIS Solution Suite Recording service after network recovery.

Overlapped Recording Search



When a user changes the NVR system time to the past, video data for the overlapped time period is recorded in different segments. This enables video data for the overlapped time to be searched in a different time set and prevents any possible loss of video data or discrepancy on a time-based search.

Failover

Each failover service will replace the administration, monitoring, recording, or video wall service whenever any problem occurs in the service. With IDIS Solution Suite, you will be provided with seamless service all the time.

Backup

The video recorded in the storage of IDIS Solution Suite Recording services, NVRs, or TVRs can be damaged and be overwritten. You can avoid any possible loss of data by using the backup service of IDIS Solution Suite. We provide the best video management solution that controls backup of recorded video in IDIS Solution Suite Recording services, NVRs, or TVRs.

Redundancy

IDIS Solution Suite enables redundant recording of a network camera to prevent from any possible loss of video. It allows users to separately access the camera and to record in a different storage, so you can be free from the loss of recorded video, even if any trouble arises.

Security

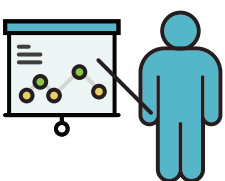
Chained Fingerprint

Chained Fingerprinting is a patented feature by IDIS

Chained Fingerprinting allows effective tracking of data forgery by marking fingerprints on multimedia (video/audio) data. By matching fingerprints from original records, you can easily trace and find partially deleted/forged data.

Secure Sockets Layer (SSL)

This allows you to enhance the security of data transferred between services of IDIS Solution Suite by using the SSL protocol.



Performance



Low Latency

IDIS Solution Suite supports live monitoring with the industry's lowest latency when it's connected only with IDIS cameras. (Avg. 350ms)

Dynamic Multiple Streaming

We can help you use a different stream depending on the screen format with IDIS Solution Suite. Selecting Auto allows IDIS Solution Suite to automatically choose the best stream based on the screen layout format to best utilize the resources in the IDIS Solution Suite client PCs.



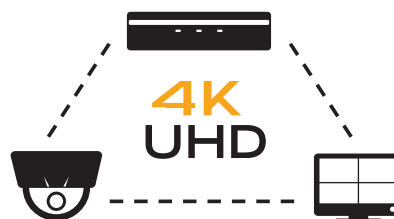
Live Display

IDIS Solution Suite makes it possible to stream Full HD live at 30fps up to 32ch.

(Windows 7 professional K (64bit), Ram 8GB, Nvidia geforce gtx 750, Intel core i7-6700K CPU @ 4.00GHz)

High Resolution

Ultra high definition (UHD) can be supported for recording and live monitoring when it works with a 4K camera.



Scalability



High Enterprise

- Solution for applications with a combination of SW modules
- A single license dynamics, devices only
- No software maintenance agreement



Administration

Management of device, service, user, and license

Monitoring

Controlling all events from device, service, and user

Streaming

Relay streams for multiple remote clients + load balancing w/ FO license

Recording

Recording video, audio, and metadata from device

Redundant

Tandem recording to provide Redundant Recording in a physically separate PC server

Backup

Archiving data from recording service, DirectIP NVRs, and DirectCX TVRs

Video Wall

Display and controls a video wall with up to 384 monitors

Federation

Consolidating for larger scale projects

Failover

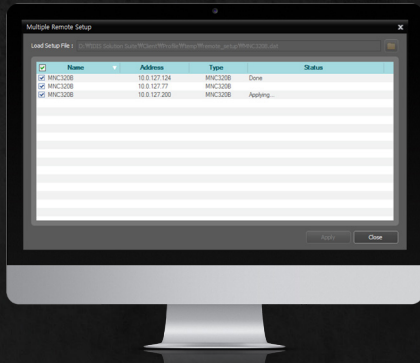
Failover Administration, Federation, Video Wall, and Recording

IDLA (IDIS Deep Learning Analytics)

Object Detection, Classification, Intrusion Detection (TripZone), and Loitering

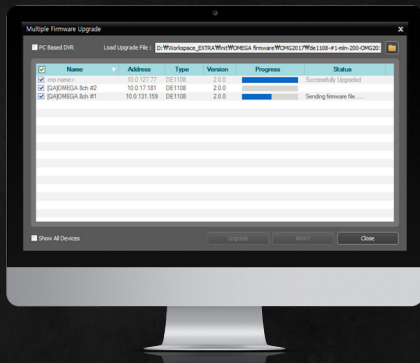


Batch Device Setup



Simultaneous setup for all connected IDIS devices is available with IDIS Solution Suite. When you need to change user accounts of cameras regularly or want to adjust the ips of all cameras installed in a network, IDIS Solution Suite is the best solution to meet your needs.

Multiple Firmware Upgrade



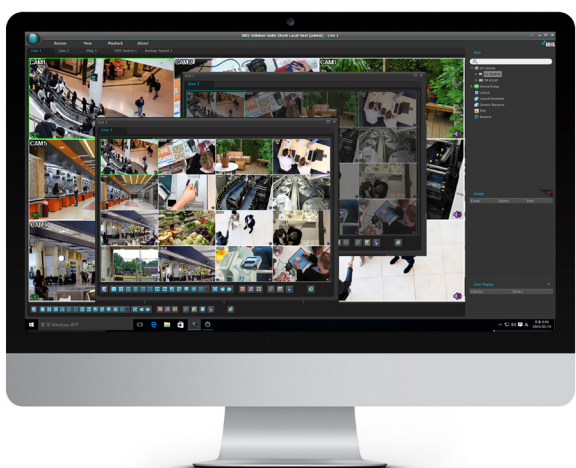
IDIS Solution Suite is able to upgrade the software of all connected devices. This means you can upgrade the software of several devices at the same time.



Usability



Detachable Floating Tab GUI



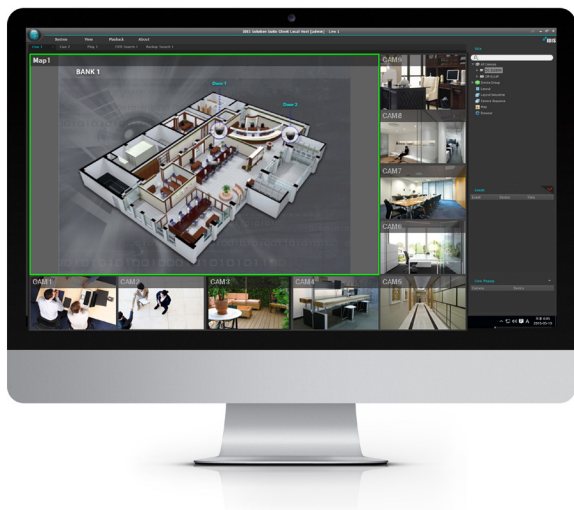
All control panels (Live, Playback, Event Search, Health, Report) operate based on a tab that is fully functional itself. Each tab can be detached and can be placed on the secondary monitor for a multi-monitor environment.

Event Thumbnails



Thumbnail search provides an efficient way to locate the video footage.

Interactive E-map



All tools and options needed for map setting are available on the Map Editor page at a glance. You can program multiple interactive maps that are linked together to respond in certain ways, such as color coded event status of a camera, live pop up, etc.

You can use the auto focus feature to zoom in to the area of interest based on specific types of events.

Bookmark

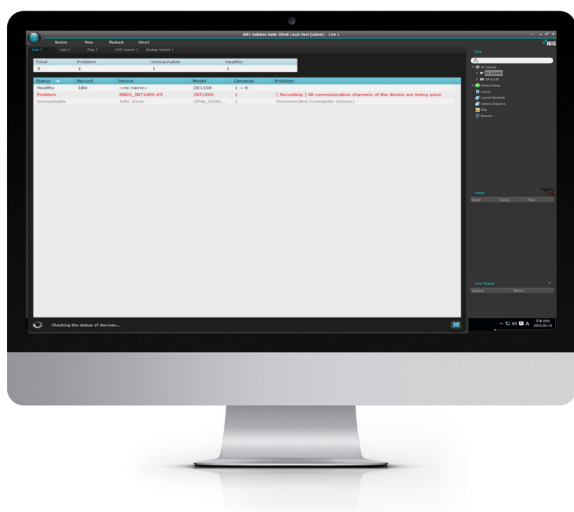
The Bookmark button on the panel toolbar allows you to bookmark the recorded video from a specific date and time, and manage them later using Bookmark labels and time.

Audio Support

Two-way audio functionality provides one-to-one communication between the device and client.

Audio broadcasting functionality makes it possible to broadcast audio to all connected devices.

Health Check



You can simultaneously check the status of registered devices.

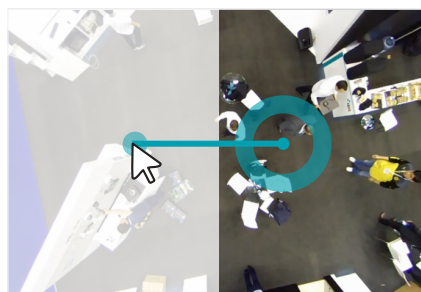
The client program automatically displays the health monitoring results not only with a summary list, but also with a detailed list including status, the device's model name, the number of cameras supported by the device, and problem.

IDIS Slingshot & Rubberband

Zoom In and Out



Pan



Tilt



Mobile Client

Mobile Client

IDIS provides IDIS Solution Suite Mobile, which is an application for mobile devices operated by Android and iOS so that users can remotely monitor videos anytime and anywhere via a network connection.



Android

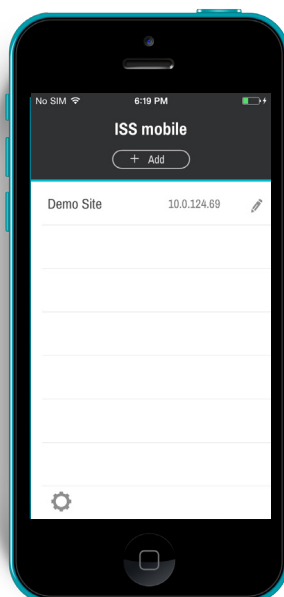
OS	Google Android 2.3 or above (Ginger Bread or above)
Processor	ARMv7-A compatible
Display	320 x 480 pixels to 1080 x 1920 pixels (320dp to 1080dp)
Storage	25MB or more
Network	Wi-Fi or mobile network (3G or 4G) provided by the Android mobile device



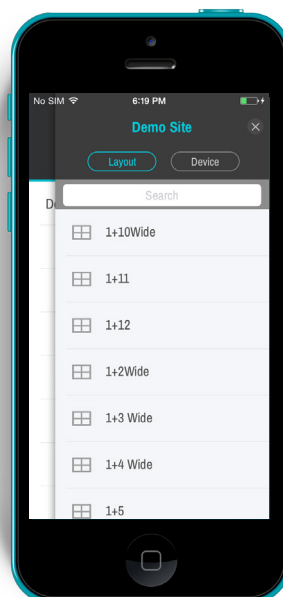
iOS

OS	iOS 9.0 or above
Network	Wi-Fi or mobile network provided by the iOS

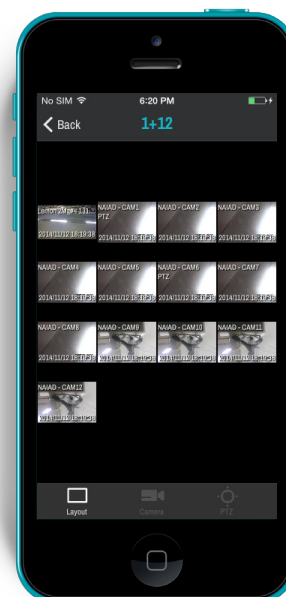
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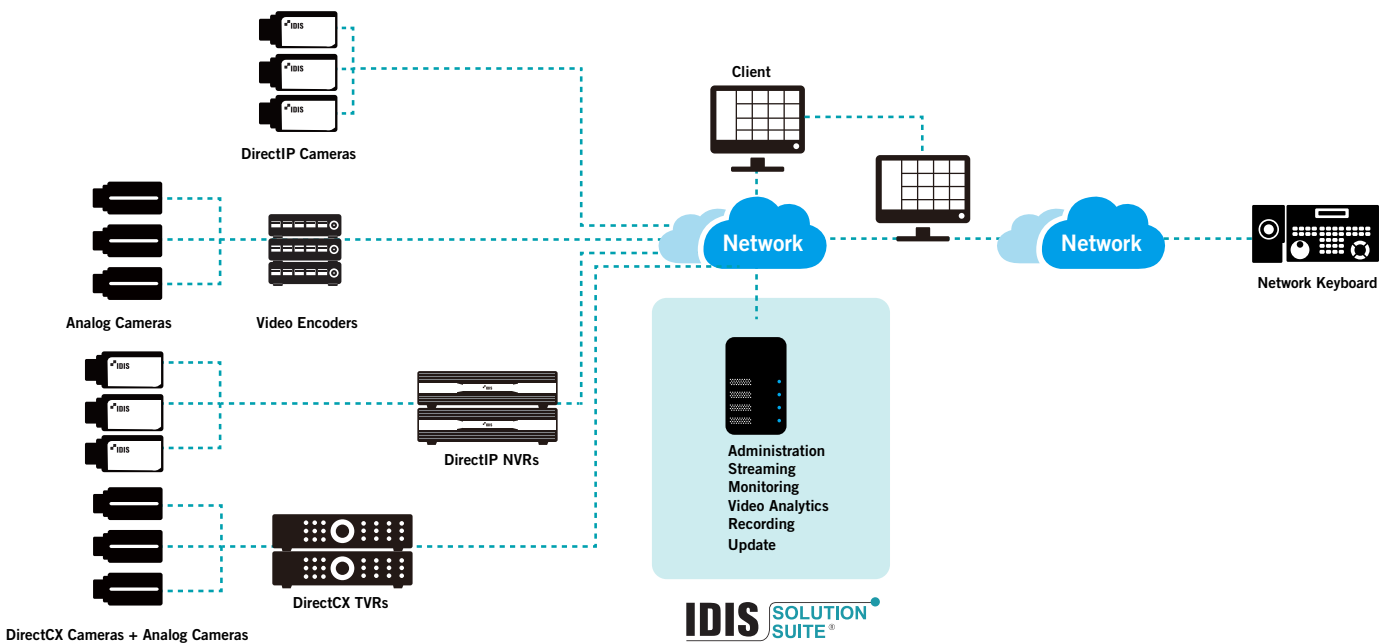


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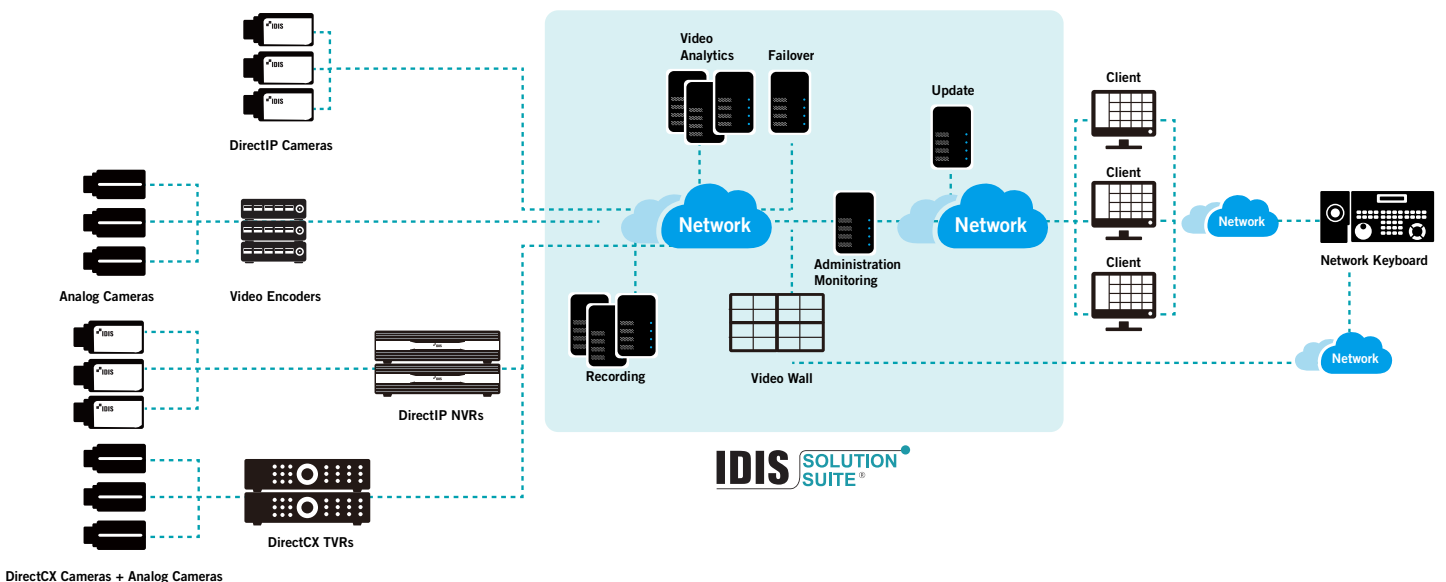


Connection Diagram

Single Server



Multi Server

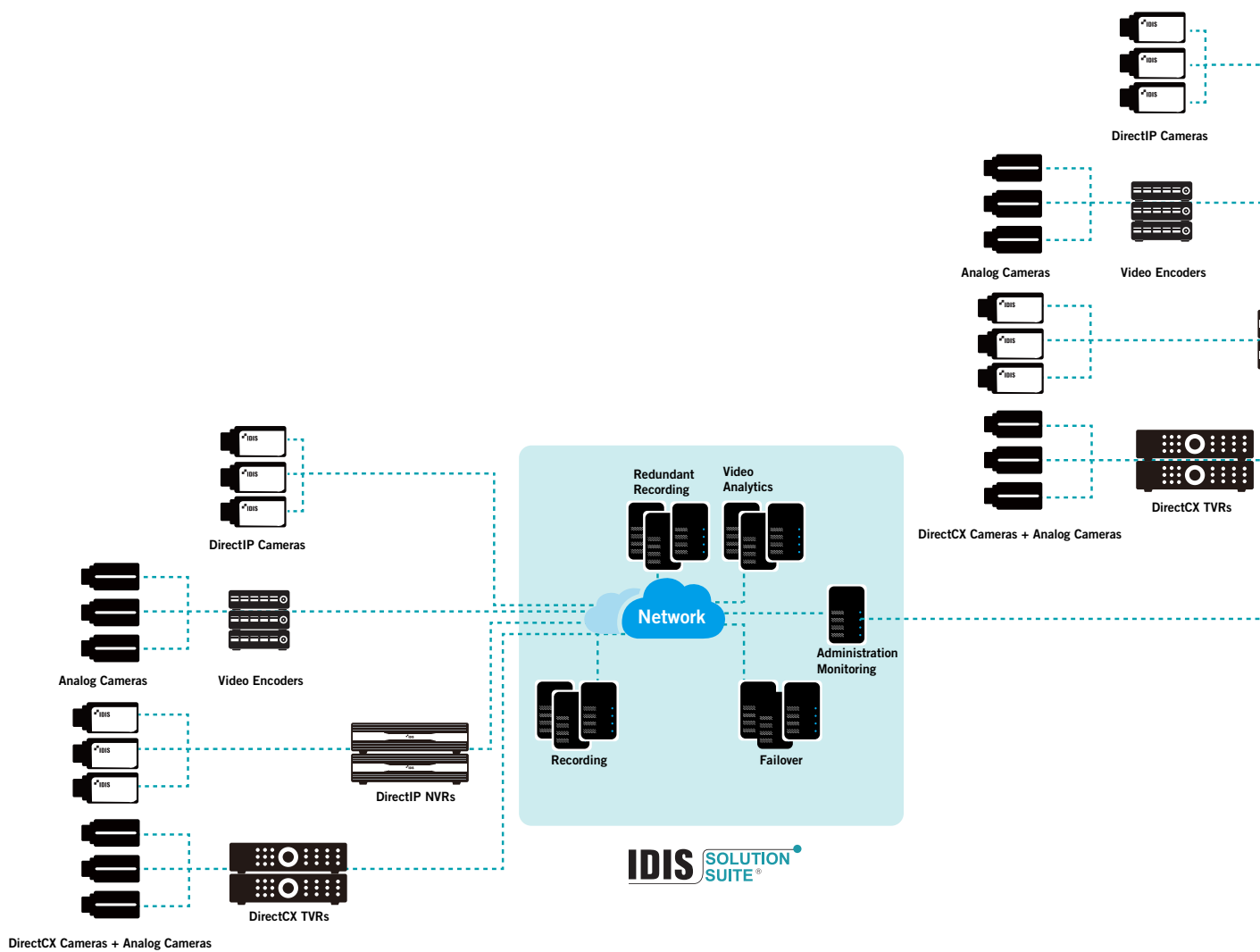


IDIS SOLUTION SUITE

Modular and Scalable
Next Generation VMS



Federation Server



System Requirements

Server System

RECOMMENDED	
OS	Microsoft® Windows® XP 32-bit/Vista (Home Standard, Business, Ultimate, Enterprise), Microsoft® Windows® 7 (Home Premium, Professional, Ultimate), Microsoft® Windows® 8 (Pro, Enterprise), Microsoft® Windows® 8.1 (Pro, Enterprise), Microsoft® Windows® 10 (Home, Pro), Microsoft® Windows® Server 2003 / 2008 / 2012 / 2016
CPU	Intel i7-8700 3.2Ghz or faster /Intel Xeon E3 or faster (4 cores or more)
RAM	8GB or more
VGA	AMD Radeon™ HD 2400 or NVIDIA GeForce FX5500 (AMD recommended) (1280 x 1024, 32bpp or higher)
HDD	2GB or more free space for each service (For example : 4GB or more free space when installing administration and monitoring services)
LAN	Gigabit Ethernet or faster

Client System

	RECOMMENDED	MINIMUM
OS	Microsoft® Windows® 7 x86 (64bit) (Home Premium, Professional, Ultimate) Microsoft® Windows® 10 (Home, Pro)	Microsoft® Windows® XP Home SP 3
CPU	Intel i7-8700 3.2Ghz or faster	Intel Pentium IV 3.0 GHz or faster
RAM	8GB or more	1.5GB or more
VGA	AMD Radeon™ HD 7700 or NVIDIA GTX650 or better (1280x1024, 32bpp), multiple monitors	AMD Radeon™ HD 2400 or NVIDIA GeForce FX5500 (AMD recommended) (1024 x 768, 24bpp or higher)
HDD	6GB or more free space	1GB
LAN	Gigabit Ethernet or faster	10 /100 Mbps Ethernet or faster

Specifications



IDIS Solution Suite

Expert

INSTALLATION SITE	
Home Security	
Small Office	✓
Small to Medium Sized Solution	✓
Enterprise Solution	✓
NUMBER	
Number of Cameras per Server	256
Number of Servers per Site	Up to 64
Max. Number of Concurrent Clients	64
Number of Devices per Site	1,024 ⁽¹⁾
ISS Client Max monitor	Up to 384
DEVICE	
Automatic Device Scan	✓
DirectIP NVRs / DirectCX TVRs Support	✓
Third Party IP Camera Support	✓
ONVIF Profile S Support	✓
CLIENT (SUPPORTS WEB VIEWER)	
Dynamic Multiple Streaming Support	✓
Two-way Audio Support	✓
Audio Broadcast Support	✓
Panel docking Support	✓
Event Monitoring	✓
Web Browser	✓
IDIS Solution Suite Mobile Support	✓
MAP Support	✓
NK-1200 (Network Keyboard) Support	✓
POS Text-in Feature	✓
RECORDING, PLAYBACK, SEARCHING	
Max. Recording Storage	Unlimited ⁽²⁾
Time-lapse Recording Support	✓
Pre-event Scheduling Support	✓
Event Scheduling Support	✓
Time-segment Recording	✓
Audio Recording	✓
Print Image	✓
Export Image / Video	✓
Bookmark Function	✓
POS Transaction / ANPR Plate Search	✓
ADMINISTRATION	
Device Health Monitoring	✓
Device Check / Report	✓
Windows User Authentication (Active Directory supported)	✓
EVENT HANDLING	
Live Pop Up	✓
Event Acknowledgement	✓
Email Notification	✓
Move PTZ on Event	✓
ADDITIONAL FEATURES	
Video Wall Service	Optional ⁽³⁾
Federation Service	Optional ⁽³⁾
Backup Service	Optional ⁽³⁾
Failover Service	Optional ⁽³⁾
Redundant Recording Service	Optional ⁽⁴⁾

(1) Number of registrable devices

(2) Up to 50TB per HDD

(3) Available upon purchasing license

(4) Device expansion is available upon purchasing license

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