IDIS

One Solution. One Company.

IDIS SOLUTION SUITE

MODULAR & SCALABLE

Next Generation Video Management

MODULAR & SCALABLE
Next Generation Video Management

Find out about our latest software release and specialized functionality that take IDIS solutions to another level.

IDIS SOLUTION SUITE ®

- Basic service modules focus on core needs including adminstration, management, streaming, recording and monitoring for users, devices and services.

- Rich feature set driven by user application based upon standard operation flow: detect, verify, analyze, and respond.

- Intuitive UX design and shortcuts that enable easy and immediate user operation.

- Simplifies complex system design by leveraging modular, add-on service modules combined with integrated system design features that allow easy connectivity with multiple devices.

- Extensive and seamless management and monitoring options that encompasses users, devices and services even with multi-layered design.

IDIS Solution Suite gives customers a highly scalable, fully integrated video management infrastructure

IDIS Solution Suite is suitable for both large enterprise customers as well as 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.

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 without the associated price tag.

It offers the perfect solution for project-based rollouts as it features options for integration and the ability to transform surveillance and security operations to meet exact customer requirements.

Using proven forward and backward compatible IDIS products, including megapixel cameras, recorders, PC servers, and keyboards, IDIS Solution Suite is infinitely expandable to cover an unlimited number of devices and sites to ensure a future-proof surveillance solution.
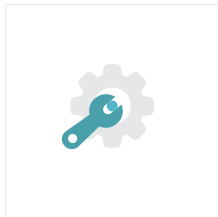
Key Benefits
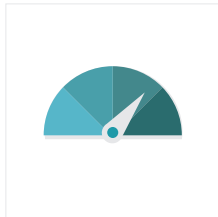
Performance

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

* 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.

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 complex installation or integration services.
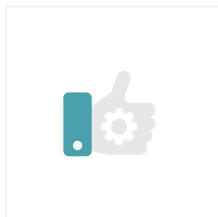
Reliability

Based on IDIS's proprietary multimedia file system, iBankDB, IDIS Solution Suite supports stable multi-channel video recording and outstanding search performance. In addition, failover, backup, and redundancy functionality improve its reliability, protecting against a range of fault conditions to ensure consistent operation without gaps in footage.
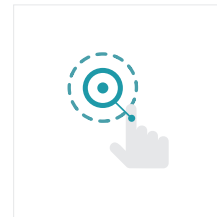
Usability

Detect ▷ **Analyze** ▷ **Respond**

- Detect and verify the situation promptly with comprehensive solutions including deep learning analytics or license plate recognition technologies.

- Analyze and evaluate the situation decisively with uniquely designed analytics functionality such as meta data filtering, person matching, camera mapping by building layout or floor, or business intelligence to initiate an appropriate response.

- Respond and act to target security staff effectively and efficiently using predefined actions based on standard operating protocols (SOPs) utilizing two-way audio and broadcasting, TTS alerts, event rules and actions, image pop-ups, and short cuts.
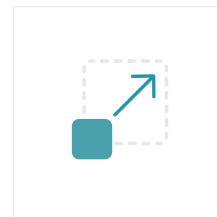
Scalability

IDIS Solution Suite is infinitely scalable allowing users to choose multiple service modules, manage an unlimited number of devices and sites, to provide enterprise-performance suitable for any size or type of application without the associated price tag or ongoing lifecycle costs.

- Unlimited scalability for cameras and integration with third-party systems to meet specific customer needs

- Enhanced design efficiency by mixing and matching modular, powerful service modules.

How **IDIS Solution Suite** Service Modules Are Designed and Operated?
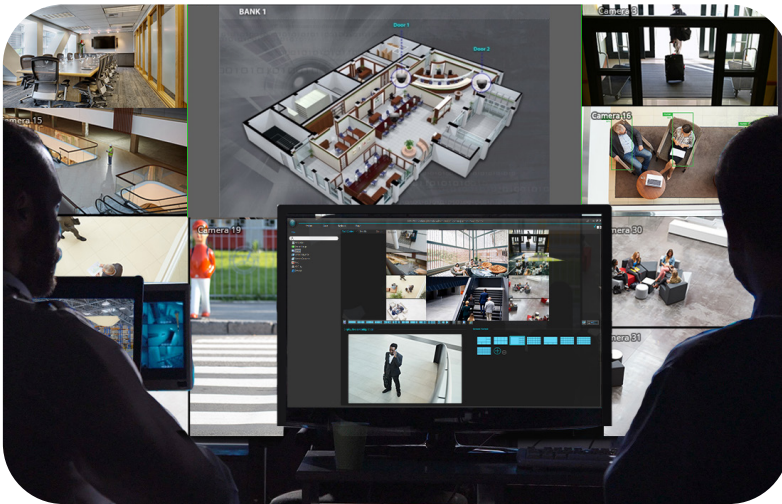
IDIS Solution Suite can work together with network cameras, DirectIP® NVRs, and DirectCX® TVRs while providing superior image quality and extensive coverage. IDIS Solution Suite allows you to manage an unlimited number of devices and to customize your surveillance system cost effectively.

IDIS Solution Suite has been designed using 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 offers one of the best value enterprise-class video management surveillance solutions on the market.

Simply Designed and Engineered

Centralized Monitoring

From small to large and multi-site businesses Services, device (recorders, encoders, IP cameras), and user management
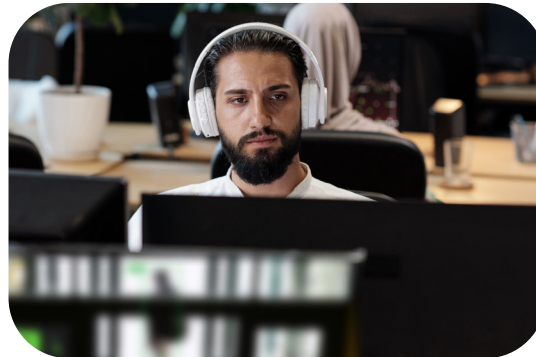
Multiple Task Operations

Designed to automate and meet standard operating procedures Intuitive and visual tools driven by user processes and requirements
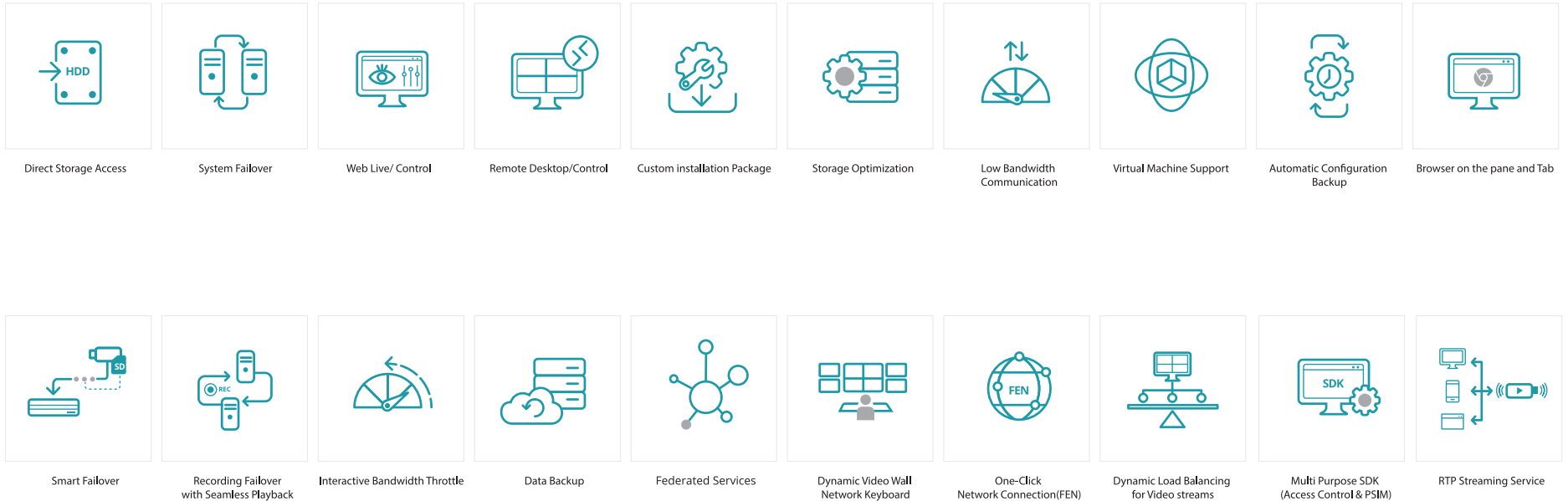

Intuitive User Experience

Services, monitoring, and operations Rapid detection, verification, and efficient response coordination

Intuitive Tools For Centralized Surveillance With Built-In Failover

Flexible **system design** from simple management to enterprise-level multi-servers and centralized management.

System Design

Direct Storage Access	System Failover	Web Live/ Control	Remote Desktop/Control	Custom installation Package	Storage Optimization	Low Bandwidth Communication	Virtual Machine Support	Automatic Configuration Backup	Browser on the pane and Tab

Smart Failover	Recording Failover with Seamless Playback	Interactive Bandwidth Throttle	Data Backup	Federated Services	Dynamic Video Wall Network Keyboard	One-Click Network Connection(FEN)	Dynamic Load Balancing for Video streams	Multi Purpose SDK (Access Control & PSIM)	RTP Streaming Service

Resilient Security You Can Count On

User management, devices, transmission and recorded footage protected by robust **cybersecurity** and **data integrity.**
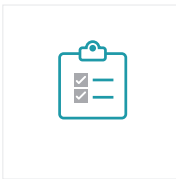
Management

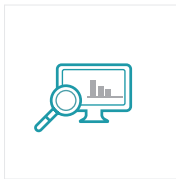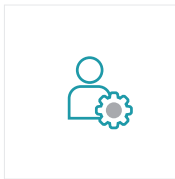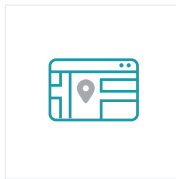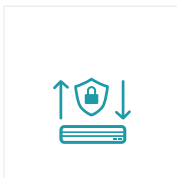|									
LDAP/Active Directory	User Log-in Notification	Self-Diagnosis Tool	Customized Layout/Group	Batch Import/Export	Health Monitoring Management	Advanced User Management	Advanced Map Management	Federated Services	Dynamic Video Wall Network Keyboard
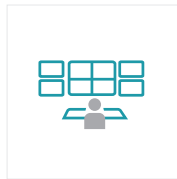
Data Security

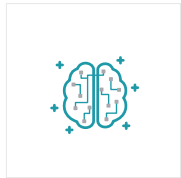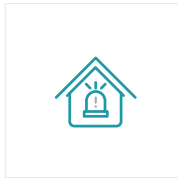|	
Secure Data Recording (iBank, Chained Finger Print)	Secure Data Transmission (TLS, FEN Security)

Visualized Domain Awareness and Efficient Response Coordination

Intuitive processes allowing fast **detection**, on the ground **accurate analysis** and **decisive action** for applications of **any size.**

Detect and Verify

IDIS Deep Learning Analytics (IDLA)	Network Alarm (+HTTP)	Phone Cameras Support	ANPR and Popup Action	Centralized Event Audio Management	Fighting Against COVID-19
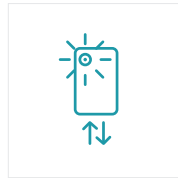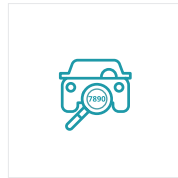
Respond and Act
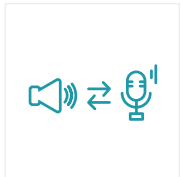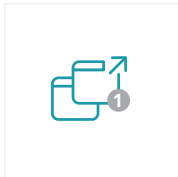
Two-Way Audio	Action for Live Popup	Short Steps for Action	Central Monitoring and Response	Event Rule and Action	Event Schedule Action	Event Audio TTS over SIP protocol	GPS Radius in Action

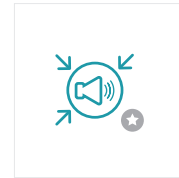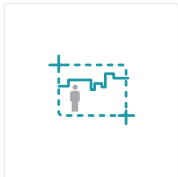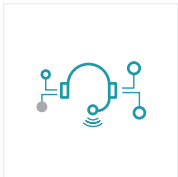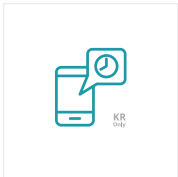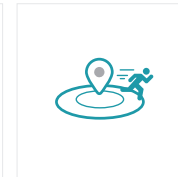# Speed Up Investigations from Hours to Minutes

Analyze and Investigate

Synchronized Playback	One Click Operation Smart UX	IDIS Deep Learning Analytics (IDLA)	ATM/POS/Text-in Support	Short Steps for Action	Smart Image Filter + Self-Adjusting Video Mode
Dewarped Video Clip VR mode support	Instant Meta Filtering(IDLA)	Person Matching Pre/Post Processing Options	Advanced Tracking by Map (MapVue Search)	Time-lapse Thumbnail Search	Advanced Map Management
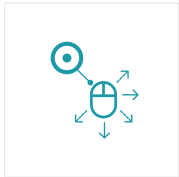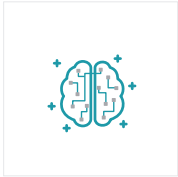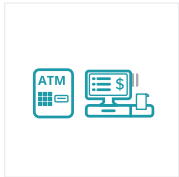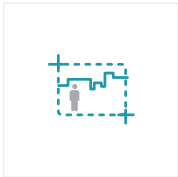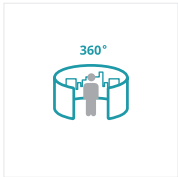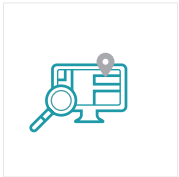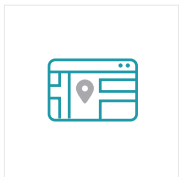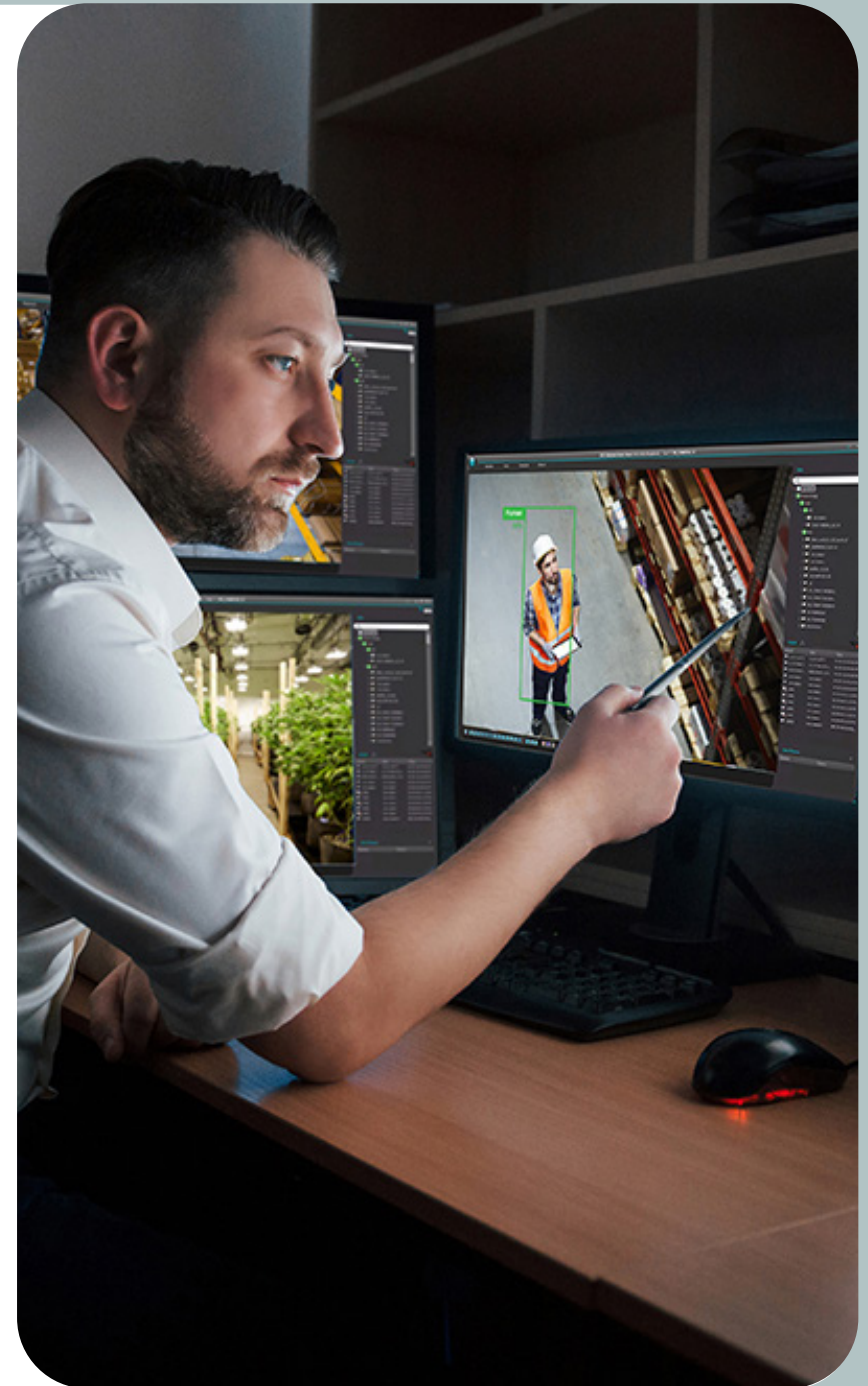
IDIS Servers

IDIS Security Workstations and Servers deliver high performance, reliable and low maintenance hardware to enable users to create intuitive and quick-response surveillance operations. The operating systems utilized by solid-state drives (SSDs) and in IDIS Solution Suite are robust and stable for mission critical security environments and large-scale applications, while data retention without gaps in footage is assured by RAID and redundant power.

IR-310
Preinstalled VMS
with IDIS workstation

NDAA Compliant

IR-310D
Preinstalled VMS
with IDIS workstation

NDAA Compliant

IR-1100
IDIS Enterprise NVR

NDAA Compliant

System Requirements

System	Recommended
OS	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 2012/2016/2019
CPU	Intel Core i5-3570 3.30GHz/Intel Xeon E3 or faster (4cores or more)
RAM	RAM 4GB 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
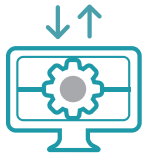
CLIENT | Desktop

The IDIS Solution Suite Desktop Client provides a customizable user interface (UI) with simple-to-use features to detect and respond to situations in real-time. It allows centralized control rooms to send event notifications to security personnel on the move to analyze, action, and ensure an unmatched speed of response based on accurate on the ground, domain awareness.

Client System

System	Recommended	Minimum	Fisheye Dewarping	Video Analytics / Person Match
OS	Microsoft® Windows® 10 (Home, Pro), Windows Server 2016 or higher	Microsoft® Windows® 7 x86 (64Bit) (Home Premium, Professional, Ultimate) * Windows XP, Windows Vista are not supported	Microsoft® Windows® 7 64Bit (Home Premium, Professional, Ultimate)	Microsoft® Windows® 10 64Bit (Home Premium, Professional)
CPU	Intel® CoreTM i7-7700 3.6GHz or faster	Intel® CoreTM i3-2100 3.1GHz or faster	Intel Core™ i7-3770 3.40GHz or faster	Intel Core™ i7-8770 3.20 GHz or faster
RAM	8GB or more	2GB or more	8GB or more	8GB or more
VGA	NVIDIA GeForce GTX1060 or Quadro P2000 or higher (1920 x 1080 x 32bpp or higher), Multi-monito	NVIDIA GeForce GT730 (1280 x 1024 x 24bpp 60Hz) or Intel® HD Graphic 530 or higher	AMD Radeon™ HD 7700 or NVIDIA GeForce GTX650 or higher (1024 x 768, 24bpp or higher), multi monitor	NVIDIA GeForce GTX1070Ti 8GB (1920 x 1080, 6Mbps, 30ips 16 channels supported) / NVIDIA GeForce RTX 2060 Super 8GB (640 x 360, 0.1Mbps, 5ips 64 channels upported)
HDD	6GB or more free space	4GB or more free space	6GB or more free space	6GB or more free space
LAN	Gigabit Ethernet or faster	10/100 Mbps Ethernet or faster	Gigabit Ethernet or faster	Gigabit Ethernet or faster
NOTE				Independent installation of video analytics/ person match service

CLIENT **I** ISS Web

ISS Web allows you to monitor real-time video of the site registered at IDIS Solution Suite system on a web browser(Internet Explorer 10.0 or higher and Chrome). Lists of devices and access levels are in svnc with the Admon Service.

ISS WEB

Client System

Key Features	· Supports 32 divided screen surveillance · Controls PTZ, Color, alarm out feature · Supports 32 divided screen playback · Supports video backup with IDIS Player, AVI, BMP · Supports storage and print-out of current image on screen

Connection Method	1. http://IP Address: Port Number
	    (NVR system's IP address and IDIS Web port number configured under Network > General (Default Value: 12088)
	
	2. http://fen.idisglobal.com/FEN Name
	    (FEN Name: NVR name configured on the FEN server)
	
	3. http://web.idisglobal.com
	    (Will be prompted to enter NVR's IP address or FEN name registered to the FEN server upon login)

CLIENT | IDIS Mobile Plus

The IDIS Mobile Plus app integrates the existing IDIS app with IDIS Solution Suite mobile for improved and more powerful functionality. Users can remotely access cameras, NVRs, monitor live video streams using an iPhone, iPad, Android phone or tablet anytime, anywhere.

4K Live Streaming

· Up to 4K live streaming video on mobile devices from remote locations
· High quality images in H.264 / MJPEG and H.265 formats

Smart UX Controls

· Full pan, tilt, and zoom control of DirectIP and DirectCX cameras
· Calendar search, playback, and bookmark functions
· Simple drag and drop control to change size and position of the video
· Smooth and seamless controls in real-time with ground breaking
  accuracy by panning images by IDIS Fisheye Camera
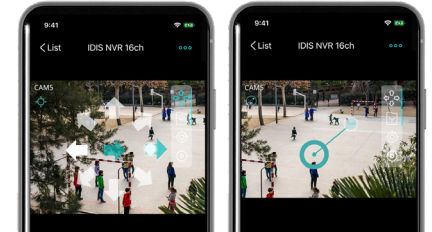
Various Viewing Modes

· Simultaneous 1/ 4 / 9 / 16 split screen live monitoring
· Enables up 2 x 2 split screens for searching recorded video
· Supports iPad split view, dark mode, while users can choose portrait or landscape
  viewing options
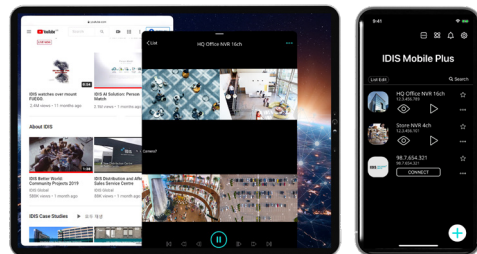
Event Alarm Notification

· Configure and receive push alarms, event/time lapse queries, two-way audio, and image capture
· Supports a wide range of events including alarm-in, motion detection, trip zones,
  video loss, text-in, etc.

IDIS Solution Suite Administration + Add-on Services

Service	Function	Operation Description	Remark	License

Administration Service	Management of All Services
	Management of All Devices and Users
	Configurations
	Upgrade
	Time Management"
		License authentication
		Directory service of services/devices/users
		Management service of services/devices/users
		  - Registration of service/devices/users
		  - Configuration of service/devices/users
		    + Access Authority Assignment
		    + Scheduling
		  - Update FW of devices
		  - Service DB management
			Up to 1024 Devices	License per Device

Monitoring Service	Monitoring All Services, Devices and Users
	Event Management
	Event Action Management
		Monitoring Service/device/users and its Connections
		Collection/Consolidation of Events for service/devices/users
		Association with Actions by Triggered Events
		  - Event Acknowledgement
		  - Live Pop-up, Event Spot Monitoring
		  - Email Notification
		  - Trigger Recording to Recording Service (Route through Admin Service)
		Association with Target User for the actions by Triggered Events
		Log of Events and Activity of Users
			All devices/service/users in Connection with Admin Service	

Streaming Service	Video Streaming	Consolidation of Video Streams of Devices to Single Port Relay of Video Streams from Devices to Services/Users Multiplying Video Streams up to 64	Up to 64 Streaming services per a Admin Service Up to 512 Devices per a Streaming Service Up to 64 Concurrent Connections for Live	
Recording Service	Recording	Recording Streams from Devices/Streaming Service Connection Maintainance for Recording with devices/service Connection Maintainance for Monitoring with Device/Service (for Event Related Recording) Connection Maintainance for Video Playback or Seach (up to 64) Connection Maintainance for Backup with Backup Service	Up to 64 Recording Services per a Admin Service Up to 256 Devices per a Recording Service Up to 10 Concurrent Connections for Playback	
Mobile Service	Host for IDIS Mobile Camera (Android Only)	Host/Access IDIS Mobile Camera and Open interface for image stream, two-way audio, stream information and panic record commend	Up to 1024 Devices	
Backup Service (Add-on Service)	Backup data from Recorder or Recording Service	Data Backup from Recording Service/Devices (Recorder) Connection Maintainance for Recording Service/Devices (Recorder)	Up to 64 Backup Services per a Admin Service Up to 64 Recording Service or 512 Recorders Up to 10 Concurrent Connections for Playback	
Video Wall Service (Add-on Service)	Video Wall Control - Virtual Digital Video Wall Matrix	Monitor Assignment to Agent PC Keyboard Assgnment for Commend/Control Monitor Association with Service/Device/Camera by Commend/Control Route Streams from Devices/Streaming Service to Agent PC Connection Maintainance for Control/Commend Matrix with Device/Services/Keyboard Connection Maintainance for Display with Agent PC Connection Maintainance for Monitoring with Device/Service	Up to 8 Video Wall Services per a Admin Service Up to 64 Agent PC per a Video Wall Service Up to 6 Monitors per a Agent PC Max 384 monitors per a Video wall service	

Service	Function	Operation Description	Remark	License
Failover Service (Add-on Service)	Failover of Administration Service Load Balancing of Streaming Service Failover of Recording Service	Monitoring Administration Service Actions to Take over Administration/Monitoring Service when Abnomality is detected. Actions to Hand over to Administration/Monitoring Service when Service is back in operation Monitoring Video Wall Service Actions to Take over Video Wall Service when Abnomality is detected Actions to Hand over to Video Wall Service when Service is back in operation Monitoring Streaming Service and Activate Load Balancing with Streaming service Actions to Take over Load of Streaming Service when Abnomality is detected Actions to Rebalance to Streaming Service when Service is back in operation Monitoring Recording Service Actions to Take over Recording Service when Abnomality is detected. Actions to Hand over to Recording Service when Service is back in operation Connection Maintanance for service/device/users	One to One Failover with Administration, Video Wall Service 64 to N Failover for Streaming, Recording Service	License per Device
Video Analytics Service (IDLA) (Add-on Service)	Process for Video Analytics and Meta Data Creation	Process/Analysis of Streams from Device and Streaming Service Create Meta Data and send to Recording Service. Transfer Event to Monitoring Service by Pre-Defined Rules Connection Maintainance with Devices/Streaming & Recording Services Connection Maintainance for Monitoring Service	Up to 64 Video Analytics Service per a Admin Service Up to 64 Video Analytics Channels Per a VA Service > Max. 1024 VA Channels per a Admin Service	License per Channel

Person Match Service
(Add-on Service)
	Process for Person Match (Person Similarity)	- Mode#1: Pre-Process Footage mode
		Process/Analysis of Live streams from Device and Streaming Service to Video Analytics Service (IDLA)
		Create Meta Data and send to Pre-configured DB (*Maria DB)
		* On the condition that Person Match Search inquiry receives,
		    Process Person Match with the Pre-process data in the DB
		    Return the result to Client through Admin/Federation Service
		
		- Mode#2: Recorded Footage mode
		Connection with NVR or Recording Service
		* On the condition that Person Match Search inquiry receives,
		    Process Person Match with Record Data from Device and Recording Service
		    Return the result to Client through Admin/Federation Service
				License per Channel

RTP Streaming Service (Add-on Service) *Available only for Project	Relay Streams via RTSP Protocol	Connection with Streaming Service for Video and Audio Data of Devices Open TCP connection to RTSP Clients (Data is transmitted by specific RTSP URL Rule)	Same as Streaming Service (Need to check)	License per Device
Recording Redundant Service (Add-on Service)	Tandem Recording Redundancy	Recording Streams from Streaming Service Connection Maintainance for Recording with Streaming Service Connection Maintainance for Monitoring with Device/Service (for Event Related Recording) Connection Maintainance for Video Playback or Seach (up to 64)	One to One Redundancy with Recording Service Up to 64 Redundant Service per a Admin Service Up to 256Ch Recording Redundancy Up to 10 Concurrent Connections for Playback	License per Device

IDIS Solution Suite Federation
+ Add-on Services

Service	Function	Operation Description	Remark	License
Federation Service	Super-Administration Management of Multiple Administration Service and User Management of All Services via Admin Service Management of All Devices via Adminservice and Users	License authentication Directory service of services/Devices on Admin Service/users Management service of services/devices on Admin Service/users - Registration of service/devices on Admin Service/users - Configuration of service/devices on Admin Service/users + Access Authority Assignment + Event Scheduling - Update FW of devices on Admin Service - Service DB management	Up to 1024 Adminstration Service per a Federation Service Up to 64 Federation Clients	License per Device
Monitoring Service	Super-Monitoring	Monitoring Service/devices on Admin Services/users and its Connections Collection/Consolidation of Events for service/Devices on Admin Services/users Association with Actions by Triggered Events - Event Acknowledgement - Live Pop-up, Event Spot Monitoring -. Email Notification Association with Target User for the actions by Triggered Events Log of Events and Activity of Users	All devices/service/users in Connection with Federation Service and Administration Service in connection with Federation Service	
Backup Service (Add-on Service)	Backup data from Recorder or Recording Service via Administration Service	Data Backup from Recording Service/Devices (Recorder) on Admin Service Connection Maintainance for Recording Service/Devices (Recorder) on Admin Service	Up to 64 Backup Services per a Federation Service Up to 64 Recording Service or 512 Recorders Up to 10 Concurrent Connections for Playback	License per Device
Video Wall Service (Add-on Service)	Control monitoring on multiple monitors with network keyboards for centralized monitoring	Monitor Assignment to Agent PC Keyboard Assgnment for Commend/Control Monitor Association with Service/Device on Admin Service /Camera by Commend/Control Route Streams from Device on Admin Service/Streaming Service to Agent PC Connection Maintainance for Control/Commend Matrix with Device on Admin Service / Services/Keyboard Connection Maintainance for Display with Agent PC Connection Maintainance for Monitoring with Device on Admin Service	Up to 8 Video Wall Services per a Federation Service Up to 64 Agent PC per a Video Wall Service Up to 6 Monitors per a Agent PC Max 384 monitors per a Video wall service	License per Monitor
Federation Failover Service (Add-on Service)	Failover of Federation Service	Monitoring Federation Service Actions to Take over Federation Service when Abnomality is detected. Actions to Hand over to Federation Service when Service is back on operation Connection Maintanance for Service/Users	One to One Failover with Federation Service	License per Device
Person Match Service (Add-on Service)	Process for Person Match (Person Similarity) and Meta Data Creation	-Mode#1: Pre-Process Footage mode Not Available with Federation Service - Mode#2: Recorded Footage mode Connection with NVR or Recording Service * On the condition that Person Match Search inquiry receives, Process Person Match with Record Data from Device and Recording Service Return the result to Client through Admin/Federation Service	Up to 64 Video Analytics Service per a Federation Service Up to 64 Video Analytics Channels Per a VA Service > Max. 1024 VA Channels per a Admin Service	License per Channel

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