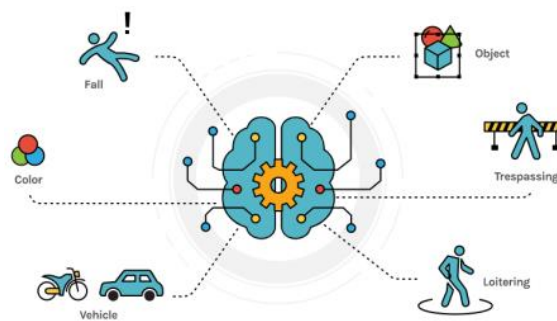


IDIS Deep Learning Analytics (IDLA)

Powered by
IDIS Deep Learning Engine



- Superior accuracy deep-learning engine
- Object classification suitable for CCTV application
- Simple configuration and Zero calibration needed

The IDIS Deep Learning Engine is an artificial neural network that acts like the human brain, learning from experience. Out-performing human capability it can analyze vast amounts of data points taken from video footage across single or multiple cameras, covering an area, a site or multiple facilities simultaneously. This allows it to first detect and then identify an event or threat, while filtering out false alarms.

The IDIS Deep Learning Engine has been designed and developed by using deep neural network technology to deliver industry-leading accuracy.

The IDIS Deep Learning Engine is constantly improving, with ongoing system development and big data learning, achieving 98% accuracy and outperforming other top-tier surveillance vendors.

The engine has been evolved using big data from surveillance footage where security and safety breaches have occurred - events such as intrusions or people having slips, trips or falls. It is constantly learning by analyzing data from video streams that capture the behavior of people and the movement of vehicles and objects and setting new performance benchmark.

Accurate, fast, simple, and scalable, IDIS Deep Learning Analytics (IDLA) powered by the IDIS Deep Learning Engine, offers agile object detection and classification of people, cars, and bicycles, intrusion detection, and loitering detection, color search, count search, combination search, fall detection, person match (attribute search).

Accurate in tough environments

IDLA is not defeated by adverse conditions such as snow, heavy rain and low light. Even in challenging environments it delivers clear detection results.



Rapid calculations

IDLA achieves industry-leading calculation speeds of 200+ IPS speed with a single, affordable GPU (tested with NVIDIA GTX 1080, FP32). For more demanding applications it can be boosted up to 600 IPS with a higher-level GPU (tested with NVIDIA Tesla V100, FP16).



Scalable, multi-format solution

It's easy to upgrade legacy hardware and cameras, letting you transform existing surveillance systems into powerful deep learning solutions. This is because IDLA doesn't require additional processing power and because data from all types of megapixel cameras, including fixed and PTZ, are processed using the same 512x288 input for precise detection.



Simple and cost-effective

Now you only pay a one-time charge, with no annual license fee, to get all the functions you need - including object detection, intruder detection and loitering detection. And with no need for configuration, you can integrate these capabilities into your existing system without the costs of additional training.



IDIS SOLUTION SUITE



Object Detection

IDIS Object Detection technology allows operators to automatically identify and track target objects by using modeling technology that creates a fixed background in the scene, allowing the detection and monitoring of moving objects across the top.

In practice it can analyze loitering and trespassing, and handle people counting in both real-time video streaming as well as recorded footage.

Action Recognition

Action Recognition is an AI technology that uses advanced automated algorithms to provide high accuracy and automated event recognition, self-learned from various cases.

For example, Action Recognition can spot a person falling over, in real-time, and trigger a notification. This ensures that critical events never go undetected and enables control room operators to initiate fast, appropriate responses to incidents.

Instant Meta Filtering

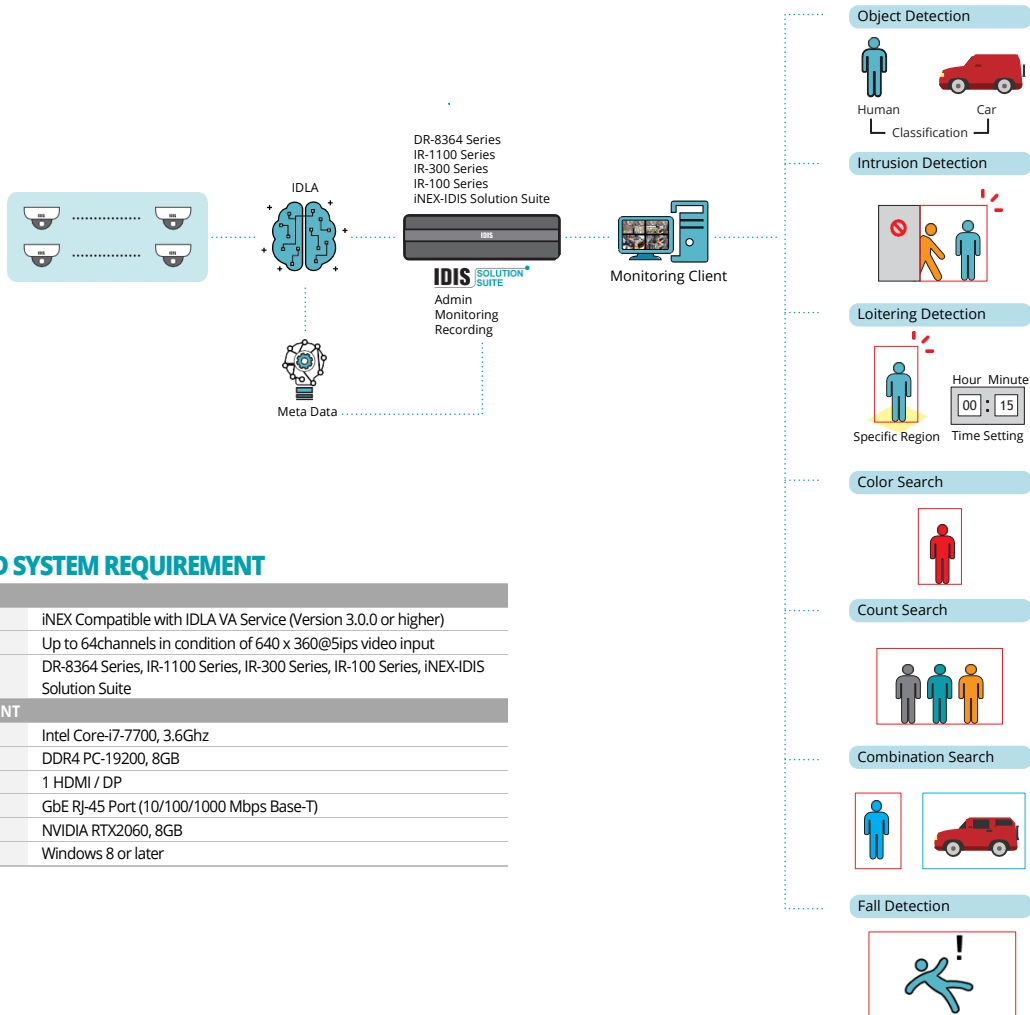
As surveillance footage is recorded, the IDIS AI engine automatically recognizes objects, places, and movements and then extracts and stores metadata relating to every scene. This metadata provides classification, identity and context to video streams, allowing operators to organize, search and retrieve intelligent information from huge amounts of video footage quickly and easily.

IMF rapidly sorts through fine-grained meta-data - as easily as performing a simple text search - to locate a specific person or vehicle of interest across a site or even multiple facilities. In turn this reduces investigation time for often critical incidents from days and hours down to minutes.

Person Match

IDIS Person Match technology that extracts the characteristics of a person in order to search for the same person or persons across single or multiple recorded video streams.

This allows users to quickly search vast amounts of video data to monitor and track people of interest, to reveal their behavior and movements over time, and to allow rapid investigation of incidents or suspicious activity.



SOFTWARE AND SYSTEM REQUIREMENT

SOFTWARE	
IDIS Solution Suite	iNEX Compatible with IDLA VA Service (Version 3.0.0 or higher)
Channels Supported	Up to 64channels in condition of 640 x 360@5fps video input
Compatible System	DR-8364 Series, IR-1100 Series, IR-300 Series, IR-100 Series, iNEX-IDIS Solution Suite
HARDWARE REQUIREMENT	
Processor	Intel Core-i7-7700, 3.6Ghz
Memory	DDR4 PC-19200, 8GB
Video Outputs	1 HDMI / DP
Network Connection	GbE RJ-45 Port (10/100/1000 Mbps Base-T)
Graphic Card	NVIDIA RTX2060, 8GB
Operating System	Windows 8 or later