

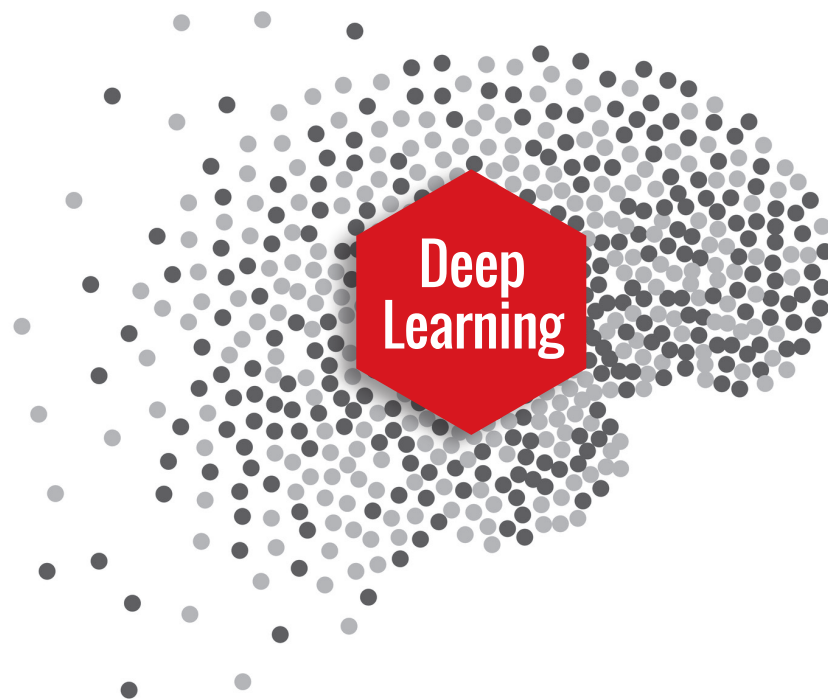


DEEPER INTELLIGENCE.
DEEPER SURVEILLANCE.
HIKVISION DEEP LEARNING SOLUTION

HIKVISION[®]

DEEP LEARNING TECHNOLOGY

Technologies that "learn" are becoming more common and more powerful. Now, Hikvision's DeepinView Cameras and DeepinMind NVRs will lead the way by making invisible intelligence visible for users, and then putting that intelligence to good use.



ADVANTAGES OF DEEP LEARNING

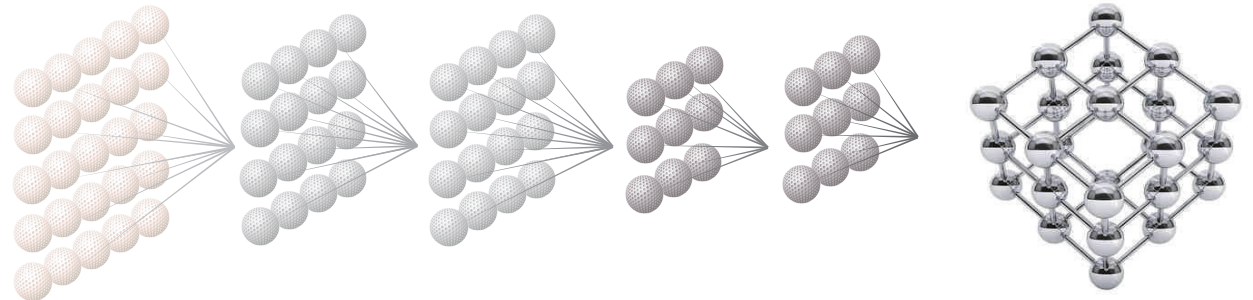
1. Traditional Intelligent Algorithm

The number of video security devices and the sheer amount of data are both rapidly increasing, but traditional intelligent algorithms operate only on the surface level. Current systems suffer from:



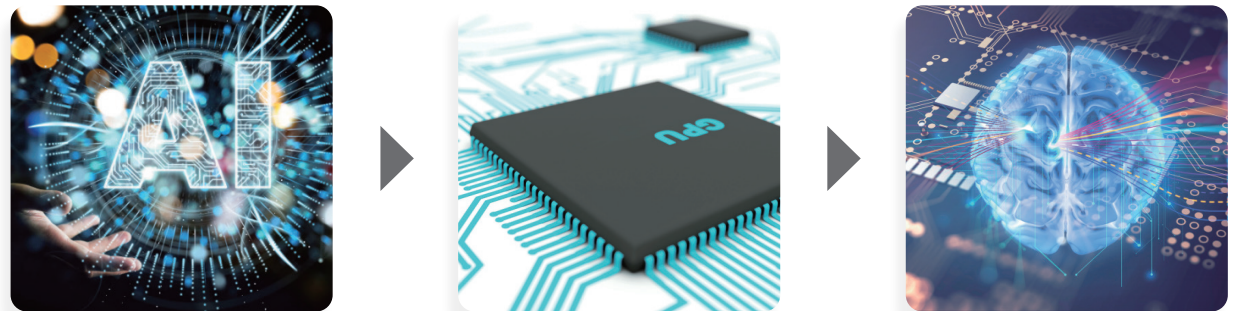
2. More Effective Algorithms

The algorithmic model for deep learning has a much deeper structure than the two 3-layered structures of traditional algorithms. In deep learning, an original signal passes through layers of processing; next, it takes a partial understanding (shallow) to an overall abstraction (deep) where it can perceive an object.



3. A Move to “Feature Learning”

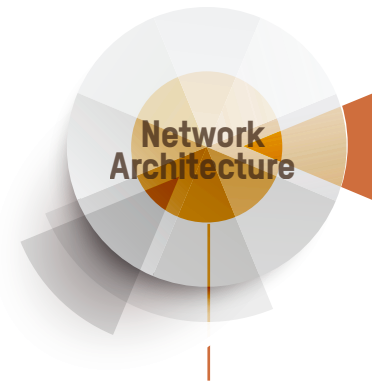
Deep learning does not require manual intervention, it relies on a computer to extract features. The more features there are, the more accurate the recognition and classifications will be.



KEY FEATURES OF DEEP LEARNING



The rapid development of GPUs, supercomputers, cloud computing, and other high performance hardware platforms has made deep learning possible.



An improved user experience and more users has increased the amount of data for deep learning. With such a large amount of quality training data, object pattern recognition models are more accurate for video surveillance use.



The optimization of deep learning algorithms has resulted in better target-object recognition.

KEY FEATURES OF DEEP LEARNING

With analytics that take business solutions to the next level, and with automatic alarm accuracy above 90 percent, this technology represents a giant step above and beyond existing solutions. Hikvision's Deep Learning technology filters out insignificant objects and movements in a scene that would trigger traditional alarm systems.

Vehicle data gets recorded and enhances the database to perform numerous security functions. People Counting systems give businesses an advantage in marketing and conversion efforts. Hikvision's solutions add value on multiple levels.



1. False Alarm Filter

The False Alarm Filter enables the system to recognize humans (line crossing detection, intrusion detection), effectively reducing the false alarms caused by shaking leaves, shadows, light variations, vehicles, small animals, etc.

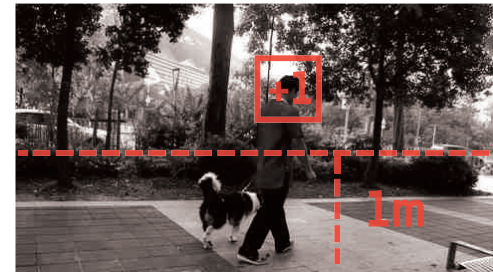


2. People Counting

The People Counting function counts people entering, exiting and passing by a specific areas where large crowds move through on foot, such as a supermarket or museum.



Good Anti-Interference Ability



Height Filtering



Loitering Filtering

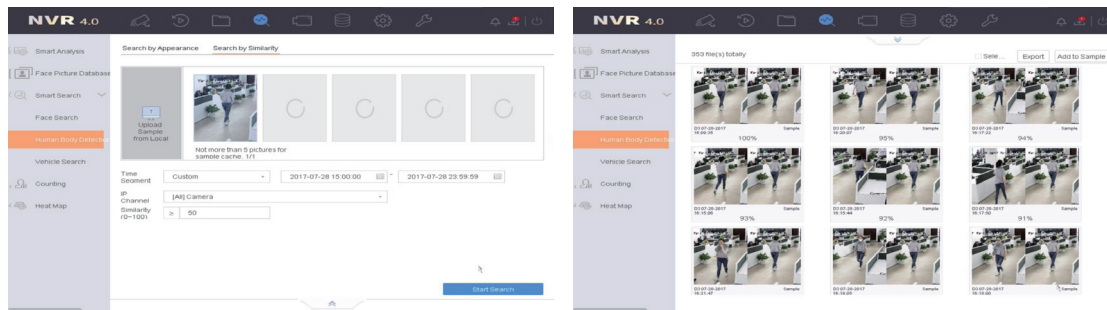
3. Vehicle Structured Data

Vehicle Structured Data refers to a bivariate table formed by extracting the vehicle's license plate number and is used for vehicle information retrieval.



4. Fast Forensic Search

The Fast Forensic Search can help security personnel quickly find important footage by searching for an individual by characteristics such as clothing color, whether they're carrying a backpack or wearing a hat.



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