AI Creates Value
Dahua AI Product & Solution Introduction

2018 Ver 1
AI Technology

"For the past 10 years we have been busy creating a world that moves first. In the next 10 years, we will step into the AI first world."

(Google CEO Sundar Pichai, Oct, 2016)

Broadly speaking, AI (artificial intelligence) refers to the branch of science and engineering that produces intelligent machines, especially intelligent computer programs. Narrowly speaking, in the security industry, AI used is to create environmental analysis equipment. Deep learning technology, or improving intelligence by analyzing and learning from large datasets, has brought about a significant change in the field of AI.
Factors in AI Development

1. Data Capacity
The amount of data stored in global datacenters will increase by 40% annually over the next few years.

2. Cloud Edge Computing Capability
The integration of GPU, cloud computing, and other high-performance hardware platforms makes computing more powerful than you can imagine.

3. Algorithm Improvement
The emergence of deep learning algorithms promote the development of AI technology.

Traditional Neural Networks
- Input
- Feature Extraction
- Classification
- Output

Deep Neural Networks
- Input
- Feature Extraction + Classification
- Output

- GPUS
- FPGAs
- ASICs
Deep Learning Features

1. Deeper
Compared with traditional algorithms, deep learning algorithms have a deeper structural level. In addition to the common input and output layers, there are more hidden layers in the middle, from the underlying features to more abstract high-level attributes or feature extraction.

2. Higher Accuracy
In this era of massive data and computations, deep learning follows a positive cycle chain: the larger the data, the higher the accuracy of the algorithm, the higher the accuracy rate, and the more accurate the data collected.

3. Higher Flexibility
Deep learning algorithms are enhanced by training and learning, and can be adjusted quickly and adapt to various new problems. They can learn to identify more object types.
4. Eliminates Need for Manual Feature Specification or Optimization

Deep learning does not require manual specification or optimization, and all work is delegated to algorithms. The algorithm simulates a neural network and can extract feature attributes. The more feature attributes, the higher the recognition rate.
Deep Learning Applications

In the surveillance industry, primary target objects of deep learning algorithms are people and vehicles. Taking this into account, Dahua provides the following technology suitable for various applications.

1. Metadata
Metadata is feature attribute information extracted from a target object which can be used for data retrieval. Currently, there are three main kinds of metadata in the security industry: human face, human body, and vehicle metadata. Facial information includes sex, age, glasses, masks, expressions, beards, etc. Human body information includes tops, pants, clothing color, hair, backpacks, etc. Vehicle information includes license plate, color, brand, model, etc.
2. Face Recognition
The face recognition function can be used to determine whether faces are present in the input face image or video. If faces are present, the position and size of each face and the position of the main features of each face are further given, and according to the information, the identity characteristics of each face are extracted and the human face will be modeled. Each face model is compared with face models stored in the known faces database to identify each face. There are three methods of comparison: 1:1/ 1:N/ N:N.

3. ANPR
ANPR (Automatic Number Plate Recognition) is a technology that uses optical character recognition on images to read license plates with high recognition accuracy. ANPR applications include toll collection, traffic monitoring and security, speed and journey time measurement, parking and access control, etc.
4. Image Search
Image search function refers to the use of facial, human body, or vehicle images to search for related pictures and video information.

5. Flow Path
Video frames from DeepSense cameras at different locations are integrated to trace target movement via image matching and image searching techniques.

6. False Alarm Filter
Further analysis is performed on detected behaviors or events, automatically filtering out false alarms introduced by animals, rustling leaves, bright lights, rain or snow, etc., greatly improving alarm accuracy.

7. People Counting
The number of people that enter/leave/pass some specific areas within specific time periods is counted after filtering out non-important targets (shopping carts, wandering personnel, etc.)
## Product Overview

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<thead>
<tr>
<th>Model</th>
<th>Image</th>
<th>Face capture</th>
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<th>Traffic data statistics</th>
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- **Metadata**: Image, Face capture, Metadata, Face recognition, Alarm
- **Human body detection**: People counting, Height detection, Queue detection and alarm
- **Dwell time management**: Dwell time management
- **Crowd density detection and alarm**: Crowd density detection and alarm
- **False alarm filter, human behavior analysis**: False alarm filter, human behavior analysis (loitering, walking, sitting, smoking, playing, talking, etc.)
- **False alarm filter, vehicle behavior analysis**: False alarm filter, vehicle behavior analysis (parking, reversing, driving the wrong way, speeding, under-minimum speed, illegal changing lanes, crossing the solid line, traffic jam, pedestrian, etc.)
- **Vehicle detection and analysis**: Vehicle recognition (brand, color, type, model, etc.)
- **People counting**: Vehicle capture
- **Parking violation detection**: Parking violation detection
- **Traffic incident detection and capture**: Traffic incident detection and capture (parking violation, reversing, driving the wrong way, speeding, under-minimum speed, illegal changing lanes, crossing the solid line, traffic jam, pedestrian, etc.)
- **Traffic data statistics**: Traffic data statistics (traffic flow, queue length, lane occupancy, speed, traffic status, etc.)
Recommended Models

**DeepSense Face Capture Camera**
- Face capture
- Face capture speeds up to 10 faces/s
- Metadata

**DeepSense Facial Recognition Camera**
- Face recognition. Supports storage of 10,000 images
- Face capture speeds up to 10 faces/s
- Metadata
- Blacklist alarm

**DeepSense Deep IVS Camera**
- Deep IVS

**DeepSense Dual-lens People Counting Camera**
- 3D stereo camera
- People counting
- Height detection
- False alarm filter

**DeepSense Multi-lens Behavioral Analysis Camera**
- 3D stereo camera
- 4K resolution get more details
- Face capture speeds up to 10 faces/s
- Face recognition. Supports storage of 10,000 images
- Supports human behavioral analysis: fighting, falling, stalking, loitering, etc.
Recommended Models

**SDT5A225-2F**
- DeepSense Smart Capture Camera
- Human / vehicle capture
- Face recognition. Supports storage of 10,000 images
- Human metadata
- Vehicle metadata (color, brand, model, etc.)
- Blacklist alarm

**SDT6AE240-2Z4**
- DeepSense Parking Violation Detection Camera
- Human / vehicle capture
- Face recognition. Supports storage of 10,000 images
- Human metadata
- Vehicle metadata (color, brand, model, etc.)
- Illegal parking
- Blacklist alarm

**SD8A240VA-HNA**
- DeepSense Deep IVS Camera
- Face capture
- Face recognition. Supports storage of 10,000 images
- Human metadata
- Vehicle metadata (color, brand, model, etc.)
- Blacklist alarm
- False alarm filter
- Classify humans and vehicles

**IPC-PSD81642-A360**
- DeepSense Camera
- Crowd density detection and alarm
- 48x optical zoom
- Smart tracking

**ITC231-RU1A-(IR)L**
- DeepSense ANPR Camera
- Vehicle capture
- ANPR
- Vehicle recognition
- Metadata
- Traffic data statistics (traffic flow, queue length, lane occupancy, speed, traffic status, etc.)

**ITC952/352-RF1A-IRL**
- DeepSense ANPR Camera
- Vehicle capture
- ANPR
- Vehicle recognition
- Traffic incident detection and capture (parking, reversing, wrong-way driving, illegal U-turn, speeding, driving too slow, debris, illegal lane change, crossing solid line, traffic jams, pedestrians, etc.)
### Product Overview

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<thead>
<tr>
<th>Model</th>
<th>Image</th>
<th>Face recognition</th>
<th>Metadata</th>
<th>People counting</th>
<th>Queue detection and alarm</th>
<th>Crowd density detection and alarm</th>
<th>False alarm filter, human behavioral analysis (tripwire, intrusion, loitering, entry/exit, abandoned/missing objects, fighting, falling, stalking, etc.)</th>
<th>ANPR</th>
<th>Vehicle recognition (brand, color, type, model, etc.)</th>
<th>Blacklist alarm</th>
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Recommended Models

**IVSS7008-1T**
- 8/16/24 HDD
- Max. 32 channel face recognition. Real time notification when target face/vehicle detected. Image search by face/vehicle images
- Max. 32 channel face/body/vehicle metadata. Real time notification when target face metadata (age, gender, glasses, expression, mask, beard), human body metadata (height, clothes color, pants color) detected - no need for continuous manned monitoring
- Video search by face/human body/vehicle metadata - no need to search videos frame by frame and whether with or without face image
- Max. 100,000 face image database
- 400Mbps/512Mbps input bandwidth
- Supports human behavior analysis. Fighting, falling, stalking, loitering, and other behaviors detected with high accuracy powered by deep learning algorithms. Pushes alarms in real time
- Supports deep learning IVS functions (line crossing, intrusion, region entrance, and exit detection with high accuracy powered by deep learning algorithms. Used in airports, metro/railway stations, prisons, power plants, etc.)

**IVSS7016-4T**
- 8/16/24 HDD

**IVSS7024-8T**
- 8/16/24 HDD

**DeepSense 8ch/16ch/32ch Face Recognition IVSS**

**NVR5000-I**
- 2/4 HDD
- 2/4 channel face recognition. Real time notification when target face/vehicle detected. Image search by face/vehicle images
- 2/4 channel face/body metadata. Real time notification when target face metadata (age, gender, glasses, expression, mask, beard), human body metadata (height, clothes color, pants color) detected - no need for continuous manned monitoring
- Video search by face/human body/vehicle metadata - no need to search videos frame by frame and whether with or without face image
- Max. 50,000 face image database
- Max. 1 million face metadata or face images
- Supports smart tracking based on human detection to replace previous three-dimensional tracking
- Supports human behavior analysis. Fighting, falling, stalking, loitering, and other behaviors detected with high accuracy powered by deep learning algorithms. Pushes alarms in real time

**DeepSense 2ch/4ch Face Recognition NVR**

**XVR8208A-4KL-XI**
- 2/8 HDD, each up to 10TB capacity
- Supports perimeter detection and false alarm filtration with 95% accuracy on all channels
- Face recognition, metadata of vehicle recognition;
- Supports whitelist/blacklist comparison and real time notifications
- Supports all channels dispatch and control based on human face;
- Support max. 4 channels people counting, crowd density analysis and queue detection; trajectory or fix-point heat map optional
- Max. 4 channel face metadata storage including age, gender, glasses, mask, beard, expression (smile, angry, calm, disgust, happy, sad, etc.)
- Supports max. 4 channel of smart tracking based on human detection to replace previous three-dimensional tracking

**DeepSense 8ch/16ch Recognition & Analysis XVR**

**XVR8208A-4K-XI**
- Supports all channels dispatch and control based on human face;
- Supports max. 4 channel of smart tracking based on human detection to replace previous three-dimensional tracking
- Supports human behavior analysis. Fighting, falling, stalking, loitering, and other behaviors detected with high accuracy powered by deep learning algorithms. Pushes alarms in real time
Recommended Models

**IVS-F7500-P**
- DeepSense Facial Recognition & Analysis Server
  - Max. 100 channel image streaming face recognition
  - Max. 16 channel video streaming face recognition
  - 25 faces can be identified in single picture. Real time notifications when target face detected (age, gender, glasses, expression, mask, beard). Image search by face images
  - Support for up to 200 faces/s face image modeling
  - Support for up to 300,000 face image database
  - Support for storage of up to 14 million face images (1080P)
  - Supports flow path applications via integration with Dahua DSS platform.

**IVS-F7200-P**
- DeepSense Facial Recognition & Analysis Server
  - Max 50 channel image streaming face recognition
  - Max 8 channel video streaming face recognition
  - 25 faces can be identified in single picture. Real time notification as target face shown (age, gender, glasses, expression, mask, beard). Image search by face images
  - Support for up to 100 faces/s face image modeling
  - Support for up to 300,000 face image database
  - Support for storage of up to 2 million face images (1080P)
  - Supports flow path applications via integration with Dahua DSS platform.

**IVS-T7000**
- DeepSense Vehicle Recognition Server
  - Support for storage of up to 2 million face images (1080P)
  - Support for up to 10 ANPR camera channels camera in entrance port (3 lane).
  - Support for up to 500 parking detector channels (3 parking)
  - ANPR accuracy rate more than 95%
  - Supports flow path applications via integration with Dahua DSS platform
Applications

Smart Retail

Loss Prevention
When a suspected “habitual thief” appears at the entrance, the face recognition camera immediately sounds a blacklisted personnel alarm, notifying the loss manager and related personnel.

Customer Information
Analyze and generate statistics about the foot traffic in designated areas, and perform in-depth analysis on the relationship between customer age, sex, mood, weather, and passenger flow, allowing stores to provide customers with more intimate service.
Smart Industrial Park

Face Recognition
Face Recognition/ANPR camera is used to achieve facial/LP access control, sounding an alarm when unfamiliar visitors are detected.

Deep Learning IVS
Based on deep learning algorithms, the deep learning IVS camera greatly improves the accuracy of detection by automatically filtering out animals, rain, rustling leaves, and other causes of interference.
Face Recognition
Face recognition cameras on city roads can be used to plot the trajectory of target objects.

Intelligent Traffic
ANPR cameras can engage in road traffic flow data collection as well as illegal behavior detection and capture.
ENABLING A SAFER SOCIETY
AND SMARTER LIVING