IVSS2.0 — IVSS7000-I Series

Robust AI computing empower rich applications

iVSS

Dahua Technology, a leading solution provider in the global video surveillance industry, has launched its new generation deep-learning powered NVR, offering advanced Artificial Intelligence features for a variety of applications. IVSS-I enables faster video content inquiry and rapid discovery of target objects. This opens up new possibilities for danger prevention, along with real-time alerts for the video surveillance industry.

Intelligent Video Surveillance Server

Deep Learning Algorithm + Network Video Recorder + Extensible GPU = IVSS

Face Recognition

The AI-powered face recognition technology behind these products enjoys a high reputation in the industry, winning several first prizes in international competitions. Being acknowledged on performance for both efficiency and accuracy, Dahua Face Recognition could alarm for suspects on blacklist, allow passing for authorized people on whitelist, also alert for approaching of strangers.
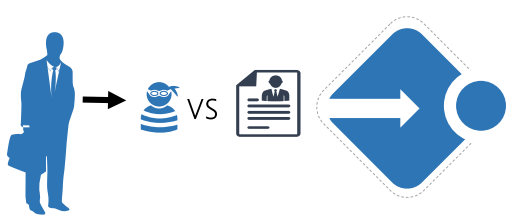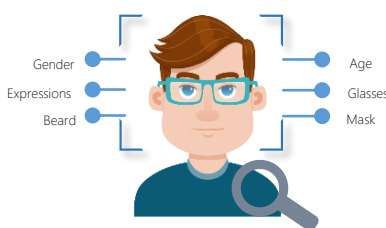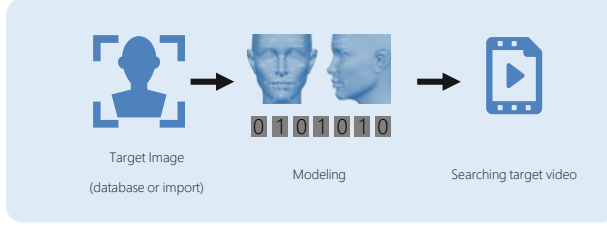

Similarity: 90% — Common Mode
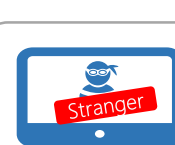
Stranger — Stranger Mode

AI Search

Constituted with feature attribute information extracted from target faces, such as gender, age, glasses, masks, beard and expressions, metadata makes it possible to do smart search by comparison between the modeled object and database or matching with identity characteristics, which significantly enhances accuracy and efficiency.
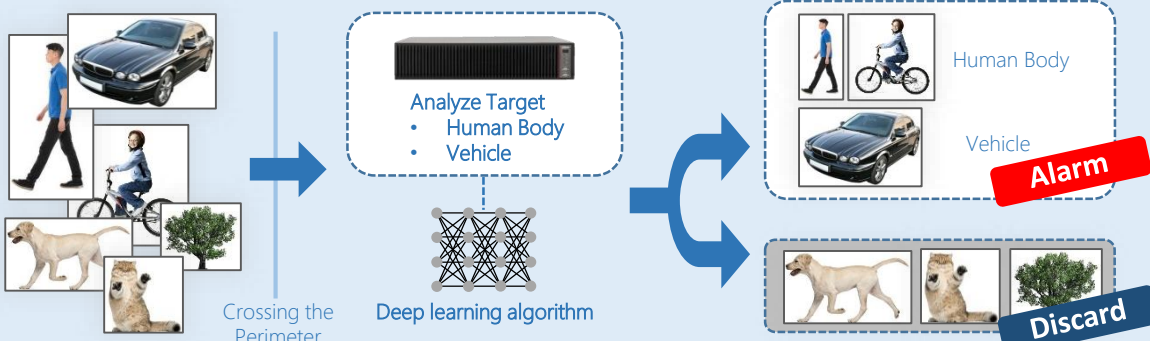
Metadata Search

Gender, Expressions, Beard, Age, Glasses, Mask

Image Search

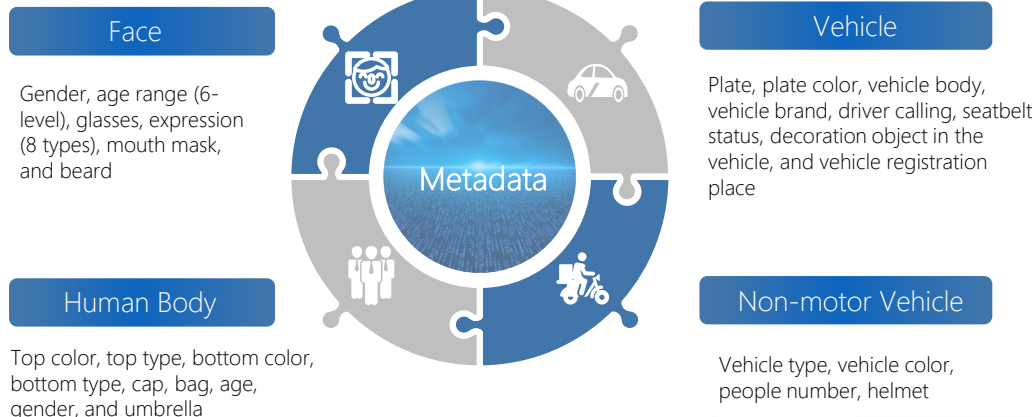Target image (database or import) → Modeling → Searching target video

Perimeter Protection

Perimeter protection function can realize human and vehicle classification, reducing false alarm caused by animals, camera shaking, grasses or other irrelevant objectives with higher precision

False Positives Rate + False Negatives Rate → Higher Precision

Crossing the Perimeter | Deep learning algorithm | Analyze Target Human Body Vehicle → Human Body / Vehicle — Alarm / Discard

Metadata

Metadata of Face, Vehicle, Human body, Non-motor vehicle makes it much easier for users to locate the interested objects.

Face
Gender, age range (6-level), glasses, expression (8 types), mouth mask, and beard

Vehicle
Plate, plate color, vehicle body, vehicle brand, driver calling, seatbelt status, decoration object in the vehicle, and vehicle registration place

Human Body
Top color, top type, bottom color, bottom type, cap, bag, age, gender, and umbrella

Non-motor Vehicle
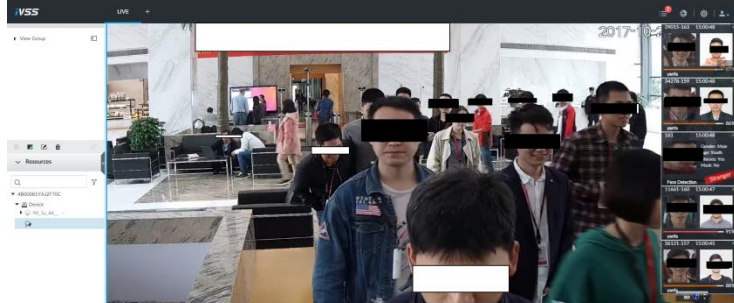Vehicle type, vehicle color, people number, helmet

Metadata

New GUI

Traditional NVR GUI is lack of extensibility, and not suitable for project market, especially industrial applications. But now, with a brand new GUI design which is comparable to VMS client, IVSS can provide a user experience familiar and friendly for project level customers. IVSS have unified the GUI design for both local and Web, makes it easier to learn how to use the device.

PC client

No more worry about
- Update of Browser
- Incompatible Plug-ins
- Farfetched HTML5
- Flash Incompatible

Optional Models

IVSS7008-1I
IVSS7008-2I

IVSS7016(DR)-4I
IVSS7016(DR)-8I

IVSS7024(DR)-8I
IVSS7024(DR)-16I

Face Recognition
Each AI module support
- Up to 6 channel video stream (1080P)
- Up to 20 face pictures /sec picture stream
Face database
- Support 50 databases with up to 300,000 face images

Perimeter Protection
Each AI module support
- Up to 16 channel perimeter protection
- 10 IVS rules for each channel

Metadata
Each AI module
- Up to 4 channel video metadata
- 30 properties/module

Perimeter Protection Solution

DSS Pro

DMSS

IVSS7000-I Series

Normal Dahua IPC/ Third Party Camera
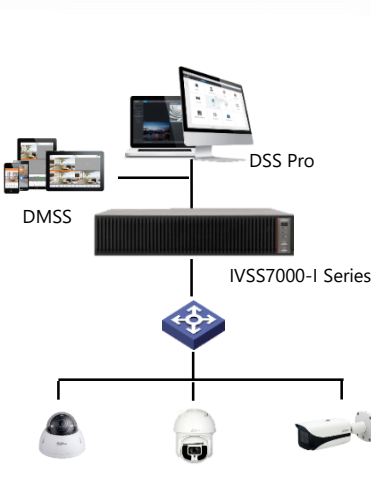
Application Scenes
Airport | Railway | Highway | School | Power Station | Prison | Border | ...

Perimeter protection by recorder: Up to 256 channels

Product Selection

Cameras	Normal Dahua IPC/ Third Party Camera
Storage	IVSS7000-I Series
VMS	DSS Pro

Face Recognition Solution

DSS Pro

DMSS

IVSS7000-I Series

Normal Dahua IPC/ Third Party Camera | Face Capture Camera

Video | Picture
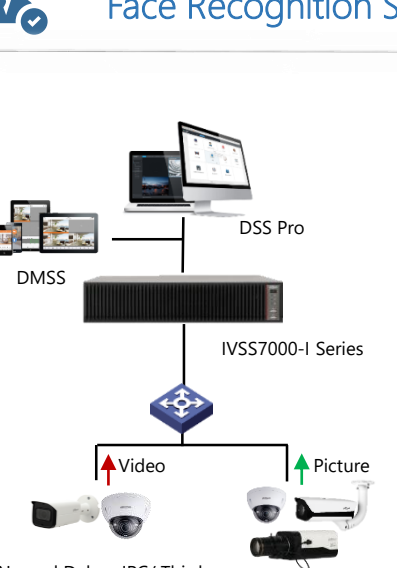
Application Scenes
Airport | Mail | Bank | School | Stadium | ...

Face recognition with face capture camera: Up to 256 channels
Face recognition with normal camera: Up to 96 channels

Product Selection

Cameras	Face Capture Camera: IPC-T Series, IPC-S Series, IPC-8242-FD Series Normal Camera: Normal Dahua IPC/ Third Party Camera
Storage	IVSS7000-I Series
VMS	DSS Pro