Next-Generation Video Search

Introduction to Aicuda AIVA

Aicuda Technology - overview

- Software company in enterprise video search & video data mining
- R&D and product development together with **Research Institutes** from Netherlands and Taiwan
- 400+ years of man hour deep learning development
- Deep expertise in video analytics, big data and cloud computing
- Pioneering applications in deep learning technology
- **30+ patents** in AI, big data analytics and cloud computing
- Headquarter: Veghel, the Netherlands

Aicuda Technology - Al Video Analytics



AI Features AIVA VSA Series

- Face Recognition
- Fire Detection
- Intrusion Detection
- License Plate Recognition
- People Counting
- Vehicle Counting
- Video Search
- Weapon Detection

AI Features AIVA PVC Series

- Illegal Parking
- Loitering
- People Counting
- Person Falling / Crouching
- Reverse Movement Persons
- Reverse Movement Vehicles
- Vehicle Counting
- Video Search

AI Features AIVA LPR Series

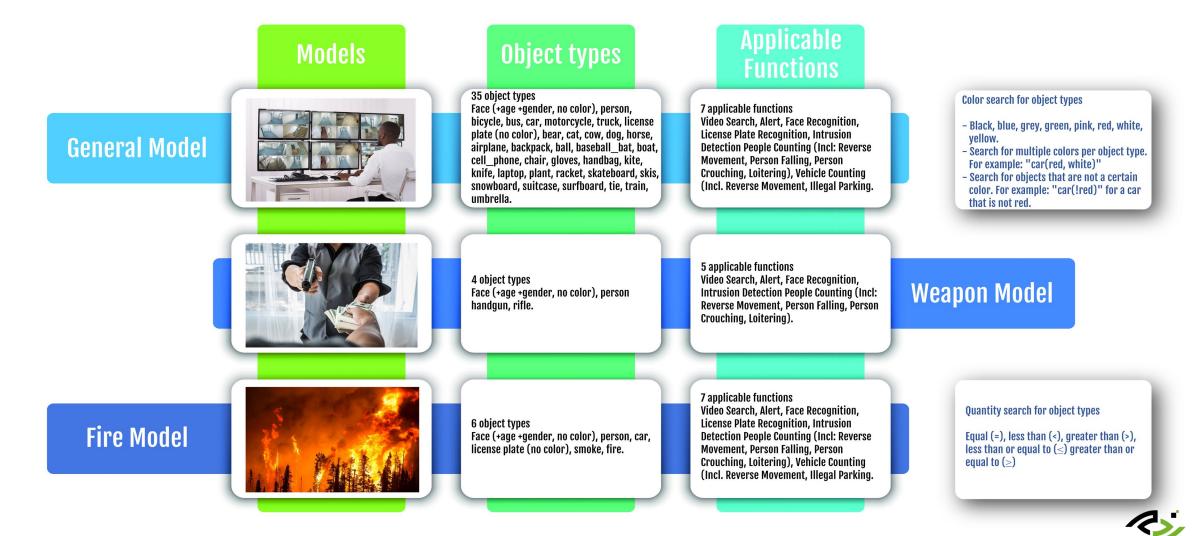
License Plate Recognition







Aicuda Technology - object types search





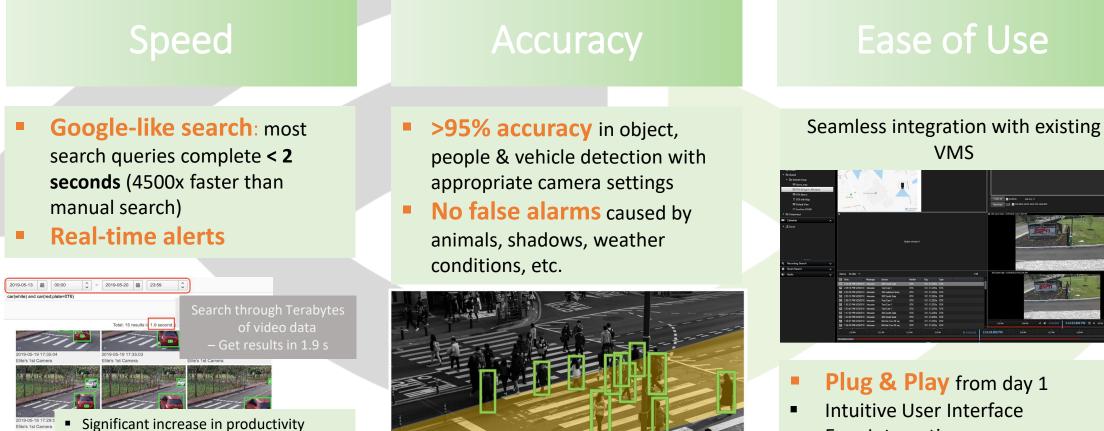
AICUDA TECHNOLOGY

Aicuda Technology - key values AIVA appliance

Quick identification of unauthorized

Immediate reaction to claims

entrance or exit



- Easy Integration
- **Stable Performance**





Aicuda Technology - Al Customer Benefits



CUDA Search O 2017-09-10 10.15 O	2017-00-11 (10:19 C)		System User Resource <table-cell> U</table-cell>
Sort By: O G Q B	Tota: 228 results in 0.1 secon	d. Result Available at 20174	08-11 02 41 - 2017-08-11 10.19
2017-06-11 10:18:59 ress_camera_49:10	2017-06-11 10:16 57 reg_camera_46. new_camera_4610.		06-11 10 18:57 amera, 43

Aicuda AIVA Customer Benefits

- Platform is trained to recognize objects and patterns, not programmed
- Pre-trained AI model commercial ready solution, customer does not need to train or calibrate the appliance before use
- All-in-One Solution supports multiple AI functions in one plug & play appliance
- Easy to use
- Appliance supports real-time notifications / alerts, live stream + forensic analytics
- Appliance provides instant playback video
- Maximize the use of NVIDIA high-performance GPU
- Easy partner proven integration with existing VMS vendors
- Appliance supports all ONVIF IP-based cameras, turns IP cameras into smart AI-powered IP cameras
- Significantly increase in productivity

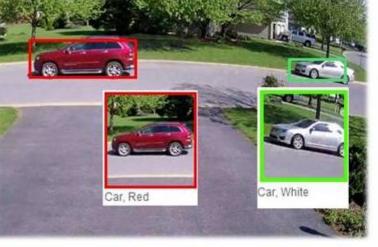


Aicuda Technology - Al Video Search

Al Video Search

> Intrusion etection

AI Face cognition 



Search objects and people based on type and attributes (color, quantity, gender, age)

Highlights:

Simple, Google-like search engine and intuitive result display based on easy-to-use natural language interface

Search tasks through terabytes of video that took hours before can now be completed in seconds



cycle

Aicuda Technology - Al Intrusion Detection



Al Intrusion

Detection

Address the pain points of optical and sensor-based intrusion systems:

- Reduce false-positive rates caused by animals, shadows, weather etc.
- Easy to setup and configure
- Time saving
- Lower operational costs

AI Solution: detect object based on type, NOT size Reduce false positives by orders of magnitude

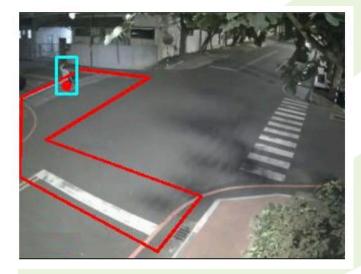


Al Intrusion Detection works well with other systems

Thermal

- AI Intrusion Detection works well with thermal and IR cameras in low light conditions
- Al Intrusion Detection can be easily integrated with other systems for multiple-layer protection, for example: alarm triggers automatic door locking

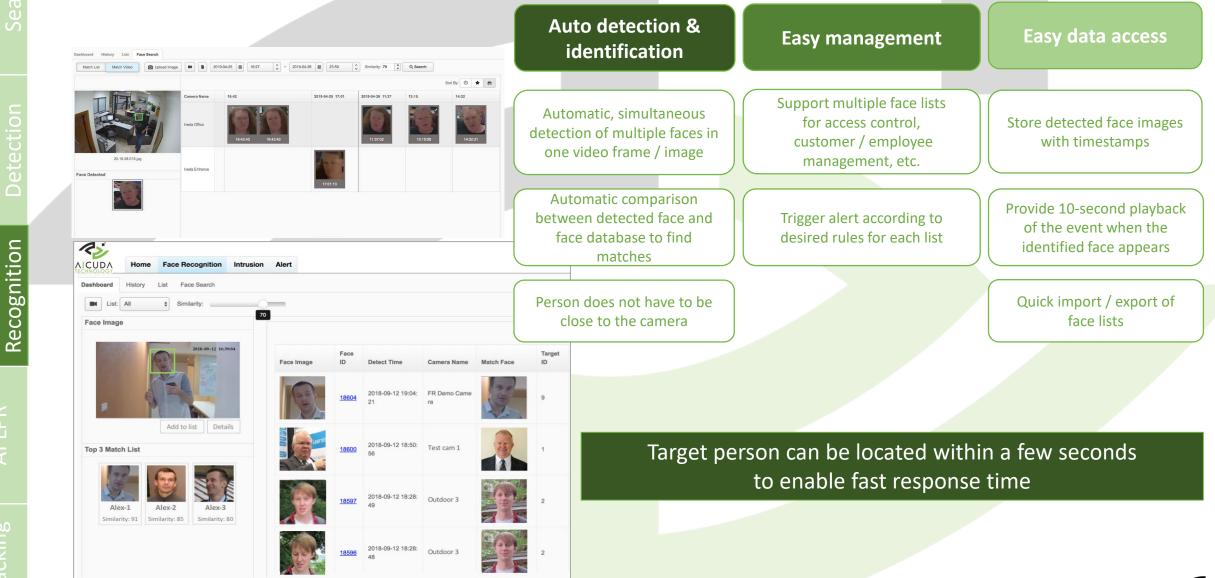






Aicuda Technology – Company presentation

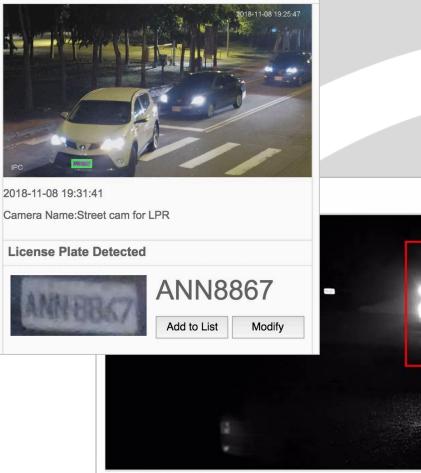
Aicuda Technology - AI Face Recognition





Al Face

Al License Plate Recognition





3 application modes to optimize performance

- Parking lots
- City roads
- Highways

Functions:

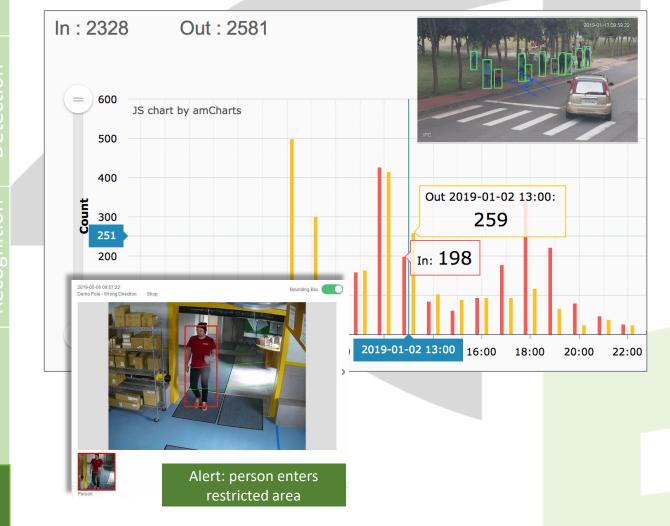
- Support license plate / automatic numberplate recognition (LPR / ANPR) at highway speed
- Send alerts for specific lists of license plates (e.g., access control for employees)
- Send alerts for unauthorized vehicles



Bounding Box

AI LPR

Al Counting – People & Vehicle Tracking



Functions:

- Bi-directional / reverse movement counting for people and vehicles
- Prevent multiple entries / exits
- Send alerts for abnormal behavior:
 - reverse direction;
 - people falling;
 - people crouching;
 - loitering;
 - Illegal parking



Aicuda Technology - Deployments



Aicuda Technology – in existing surveillance installation





AICUDA TECHNOLOGY

Aicuda Technology – eco system partners



Aicuda Technology – Company presentation

AICUDA TECHNOLOGY

Aicuda Technology – smart Al

AICUDA AIVA

Turn your existing IP cameras into smart Al-powered cameras

