

ScanViS AIEng

Facial recognition server, working with IP camera
Security/ Retail / Elderly Care



Product Description

ScanViS AIEng supports facial recognition with IP cameras. It can support different brands of IP cameras commonly found in market. The AIEng is based on state-of-the-art AI (artificial intelligent) chipset and 3 different hardware models to support 4/8/12 IP cameras. It provides the most cost-effective solution for small to medium scale facial recognition system.

AIEng receives the RSTP video streams from IP cameras and processes facial recognition on the videos. With a total of 1,000,000 face databases and 300,000 faces in the facial recognition repository, AIEng can recognize 20 people simultaneously from 1 IP cameras. It equips with 8 alarm output dry contact which can drive external alarm.

This powerful server functions with one of the best facial recognition algorithms in the world which false match rate is less than 0.00001%. Besides facial recognition, AIEng also captures the face of either recognized and unrecognized people, analyzes the attributes including age, gender, glasses, hair style, shirt color etc.

Management

Through the AIEng Web GUI users not only can manage facial registration and control database, but also view the real-time facial recognition result and access logs. API is available for 3rd party system integration.

Application

- Security monitoring for building, railway station, stadium etc.
- Anti-wandering system for elderly center
- Retail customer demographic analysis and VIP recognition

Product Highlights

Artificial Intelligence

Facial Recognition is based on state-of-the-art artificial intelligence algorithm trained with >100 million faces by deep learning method.

Open Platform

Support standard IP camera RSTP video stream.
Standard API for 3rd party system integration.

High Capacity

Maximum 8 IP cameras and 100 face databases.
Support > 1000 people flow per minutes.

Multiple Functions

Face capture, attribute analyze, face recognition.

Technical Specifications

Performance	
Supported cameras	4/8 IP cameras
Input video stream	1080P (1920x1080) 25fps
Minimum size of detected face	60 x 60 pixels
Database capacity	1,000,000 faces
Facial recognition repository size	300,000 faces
Accuracy / matching ratio	97% @ 0.00001% False Match Ratio 94% @ 0.0000001% False Match Ratio
Maximum faces recognized per frame	20
End to end facial recognition speed*	<3s
Face capture ratio	99%
Captured photo size	~ 50KB
Face attributes support	Age, gender, glasses, hat, sunglasses, mask, mustache, hair style, shirt color and style
Hardware Specifications	
CPU	AI Chipset for facial recognition
Memory	16GB
Hard disk	64GB
Network	Ethernet RJ45
Interface	RS485/HDMI/USB/Audio/Alarm In-Out
Input voltage	DC12V/2A
Power consumption	< 10W
Operating temperature	-20°C ~ +65°C
Operating humidity	10% ~ 90% (RH)
Dimension	233mm * 146mm * 52mm
Weight	1.8 Kg

System Architecture

