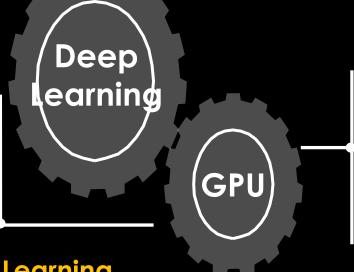




iDS-2CD8426G0/F-I

Indoor Dual-lens Face Recognition Camera



GPU

Integrated with a powerful GPU, responsible for face analyzing, and comparison.

Deep Learning

Adoptsithenatest

and self-

developed deep

egfping real-time face comparison results. algorithm.

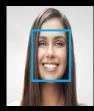


Traditional Algorithm VS Deep

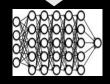
Traditional algorithm algorithm



Features are manually specified by human. It is difficult to specify all the features.



Face Photo



Deep learning



Face feature specified

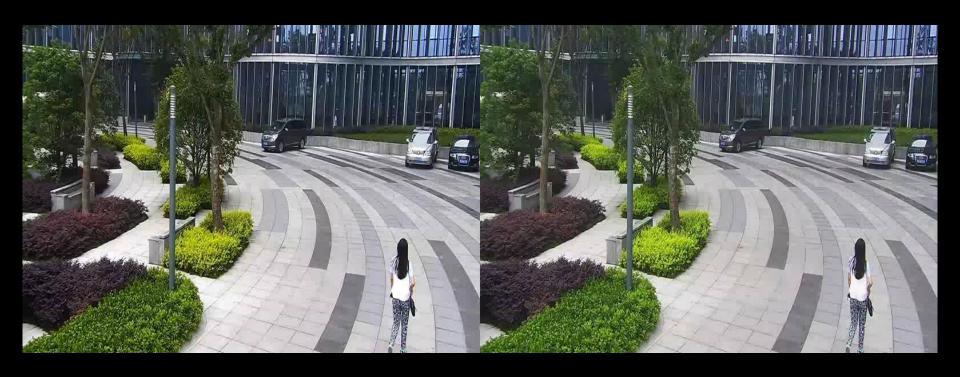
Features are concluded by algorithm automatically.

Abstract features (such as eyes, nose, cheeks, foreheads, etc.) are specified to realize a higher accuracy.

Identifies face characteristics



Traditional Algorithm VS Deep Learning



Dual lens DeepinView camera

Traditional camera



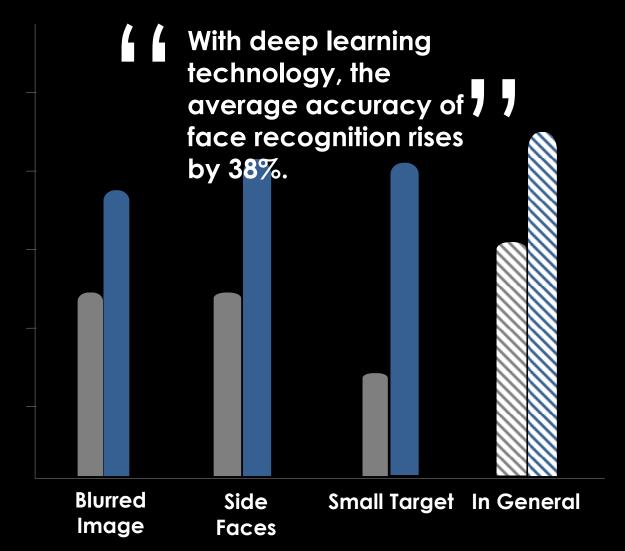
Deep Learning Algorithm Improvements

Deep Learning



Non Deep





Indoor Dual-Lens Face



Recognition Camera

Hikvision Dual-Lenst ace Recognition camera can do human face detection, capture, and recognition at the same time.



(Capture)



Detection and Capture









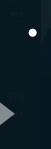










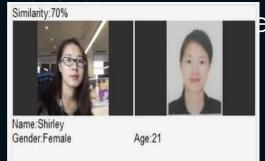


- It can detect and capture up to 30 faces at the same time.
- It can capture 1080p pictures and crop facial images simultaneously.
- Captured pictures can be stored in the SD card/NVR.



Recogniti

- The captured picture gets compared with the database and the result displays
- Output face compare results:



ender



- Face
- **Jibropies**s up to 30,000 pictures per face library, and face data size should less than 3G in total(3 Libraries)
- Pictures inside the libraries can be uploaded via Web or VMS.
- Captured pictures can be

Acceptable Photos For Face Libraries

HIKVISION

Types XAMPLES



Photo
Requireme

pts



Digital Photo



Captured Photo

Pixels and Size:

- 40 <Min. Pupil Distance<300 (recommended: 60)pixels.
- 20KB <Photo Size<300KB

Face Angle:

Left/Right<45°

(recommended: <25°)

Up/Down<25°

(recommended: <15°)

Format:

JPEG



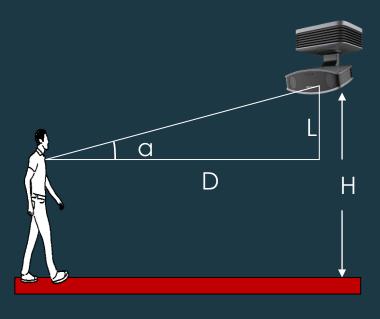


Installation & Configuration



Installation Recommendation How to choose the right position?





Model	Captur e Width	Lens	Distanc e	Installati on Height	Angle (a)
8426	2.5m	4mm	1.9m	1.8m	10°
8426	2.5m	6mm	2.9m	2.0m	10°
8426	2.5m	12m m	5.7m	2.5m	10°
8426	2.5m	16m m	7.6m	2.9m	10°



- The camera should be installed in the front of the people entering direction, the horizontal angle should be <10°, the less angle is, the better the result will be.
- The camera should be higher than the people, recommended angle of depression is a=10° to avoid

Installation

HIKVISION

Recommendation Capture requirement of human face

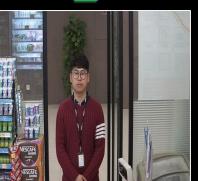
direction





Left/Right<90°





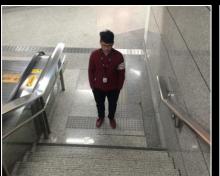






Up/Down<30°











Installation

Dual-lens Face Recognition Camera

2CD8426G0/F-



Installati on Graph

Easy installation, only one power line and one network cable







Web



Configuration

Create the Face Picture Librarie (3) Add a face library (2) Set Threshold, Support 3 Face Picture recommended: 70 Libraries (3) Add/Import pictures **HIKVISION** Live View Configuration Playback Picture Application **Face Picture Library Configuration** Face Picture Comparison Statistics Face Picture Library Name Gender Not specified Modeling Status Not specified Province Face lib ID Type ID No. Not specified Not specified Date of Birth: Fr. VIP 2017-06-28 Date of Birth: Fr. Search Reset Blacklist Add Modify Delete Import No. Date of Birth Place of Birth ID No Name Gender ID Type Shirle 2000-01-01 Unknown Unknown Female Skve Female 2000-01-01 Unknown Unknown If the face data Add are upload by "Import", the Face Picture Library Name face lib face data should Threshold 60 be modeling VIP Remarks manually. OK Cancel ©Hikvision Digital Technology Co., Ltd. All Rights Reserved.

Config





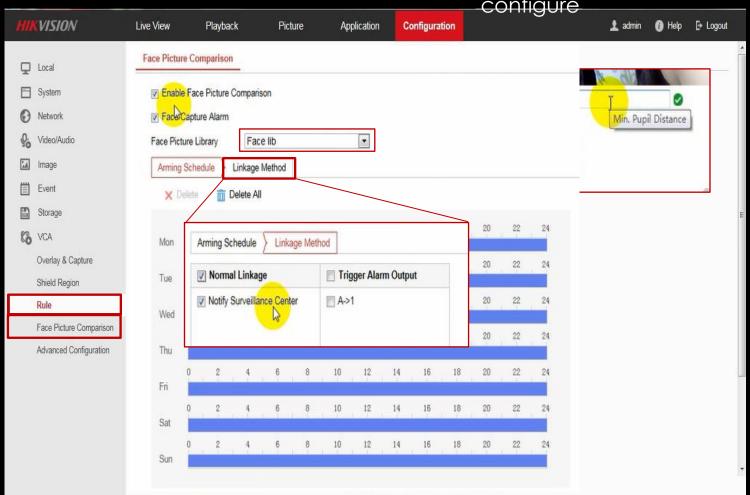
Curation

Rule, face picture comparison

(1) Min. Pupil Distance should be >40 (recommended: 60) pixels.

Choose different Face Library to

configure



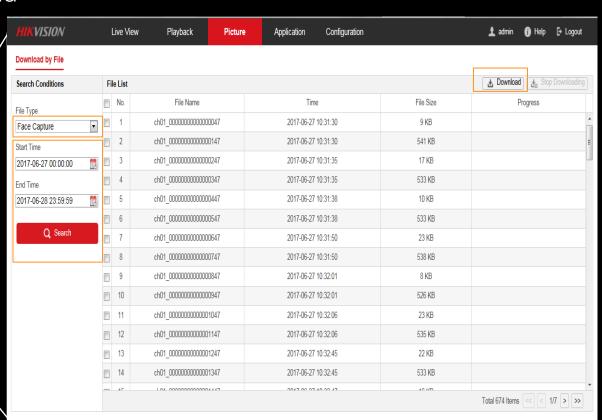
Download Captured pictures (1) Insert a SD card

HIKVISION

- (2) Search "Face Capture" and download



Insert a SD card



Shikvision Digital Technology Co., Etd. All Rights Reserved



Config

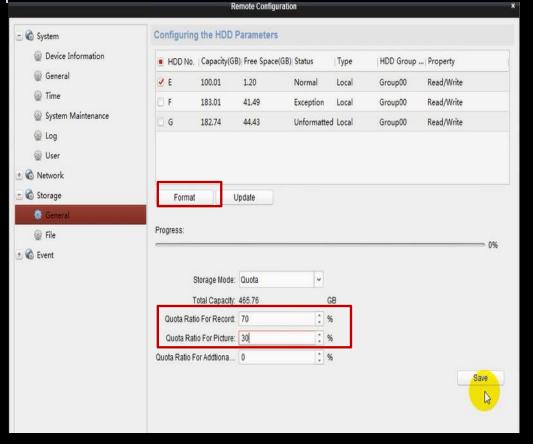
(1) Install **LEGISOM** ed 4200 version V2.5 (include iVMS-4200 Client & iVMS-4200 Storage Server).

(2) Open storage server and client

(3) Add the Storage Server into Client

(4) Configure

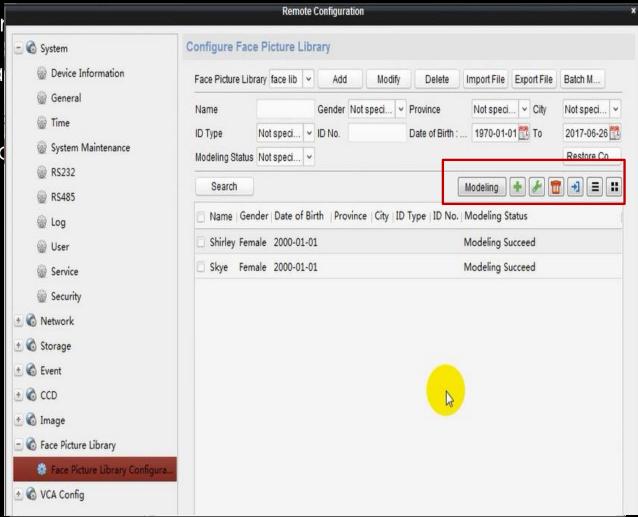






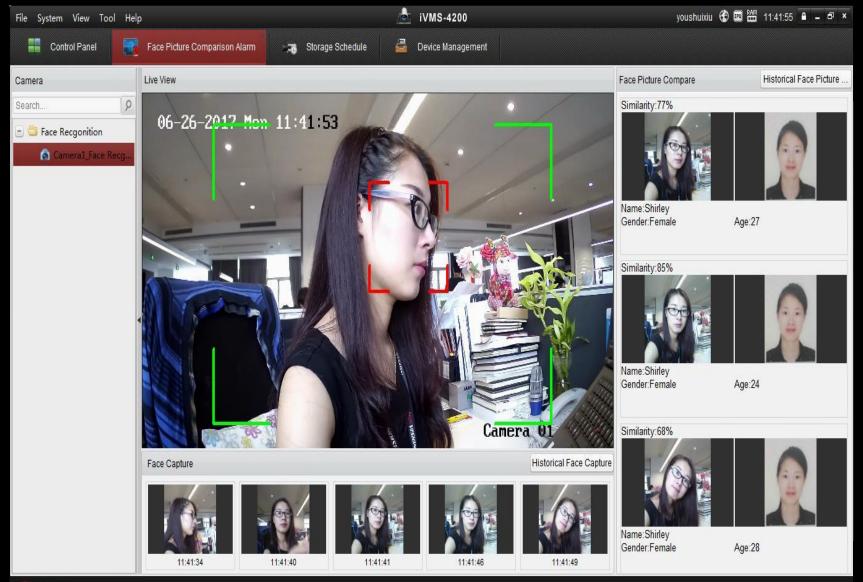
Config uration

- (1) Add device to Clier
- (2) Configure the stora schedule
- (3) Configure face libra

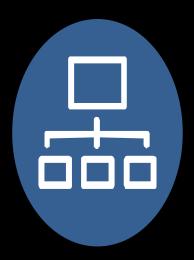


HIKVISION

Perfor





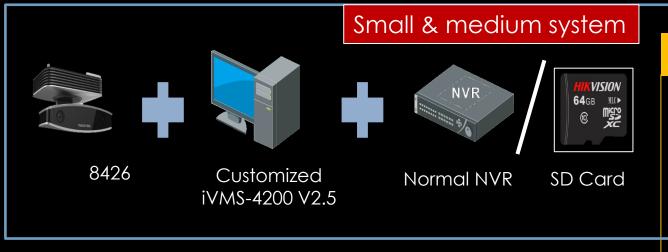


Applications



Types of systems





Functions

- Real time face detection and capture
- Real time face comparison
- Download captured pictures
- ◆ Record video



Functions

- Manage multiple devices
- Real time face detection and capture
- Real time face comparison
- Download captured pictures
- Search by face



Application Scenarios

Retail

Shopping mall



Bank/Hotel



- age and gender to help the market manager make reasonable strategy.
- Identifies the VIP and informs the market manager thus improving their service.
- Identifies the habitual thief and gives
 warning to avoid loss

Security

Custom



Government



- Informs the security when a suspect wants to escape from the custom/airport
- Improves the speed of finding a suspect by security system

Successful Cases



Bank project——VIP customer recognition

Project List

Camera: iDS-2CD8426G0/F-I

VMS: Bank IVMS-8100

VMS: 4200

Functions

Adopts iDS-2CD8426G0/F-I to do face capture and face comparison and cooperates with the bank VMS User . 8100 to provide VIP customer

service. Benevitsost, high efficiency, high accuracy

Recognizes VIP and informs the bank staff to arrange some VIP









THANK YOU