

Face Recognition NVR

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- Build black / white list
- Face detection
- Face matching
- Linkage alarm
- Face searching
- Access statistics

Application scenarios



Luxury shopping malls

Widely used in shopping malls, gold stores etc. places. By setting the VIP customers white list, it will audio remind automatically when a VIP customer coming, do VIP customer visit frequency statistics, and record the customers shopping process, improve shops management level.

Convenience stores

Supermarkets and convenience stores can set the unpopularity black list, when such customers come in, audio alarm will be triggered to remind security personnel to pay attention, it helps avioding loss.



Residential entrance guard

Linkage entrance guard when face matching. For higher security purpose, by setting white list for village owners faces in advance, it will only allow them to access automatically after recognition matching. Meanwhile it supports to set habitual thieves black list, it will call police automatically when they show up.



Application scenarios of road gate



Face recognition of medium application



Face recognition of large application



Build white/black list

You can choose a picture which is captured in NVSS or exported from USB to detect faces and save into database manually, also you can choose a directory to detect and add all faces automatically. NVSS supports to add faces pictures from live view or record into white/black list directly. NVSS support to add several faces for one person. Everyone will have only one sole UID.

Face Recognition Setup								
	anai kaling	Whitelist Setup	Face Alarm Setup	Camera Setup				
	NO.	Name	UID			Face Images		i
			000002					1
			000003					
			000004	20				
			000005					
			000006					
			000007					
-		20171025	000008					
	Add		Modify	Delete	Auto Add	Delete All	Previous Page	Next Page
		UIE	D ¢ Sear	ch	Export Database	Import Database		
								Exit

- Add faces one by one manually or add many faces automatically
- Modify a face information
- Delete a certain face or all faces
- Search a certain face by UID or name
- Export / import face database file
- Add/modify/delete face via network API or NVMS client

Face detection

Users first need to set which camera to be used to capture faces. It can be normal cameras (NVSS can capture faces from live view locally, but it will use a lot CPU resource), or special face capture cameras (remote devices). Normal cameras setting includes face detection zone, filter threshold, detection frame per second, and face score. The detected faces will be showed on the bottom of live view interface.



Face alarm

1. The alarm filter threshold of white list and black list can be different, when compare the face pictures which are captured from live view with the database face pictures, and the similarity of highest score face is more than or equal to the filter threshold, it will trigger the alarm (audio, push messages, and relay controller optional).



2. Enable alarm linkage function, there are several alarm linkage modes optional, including audio alarm, email alarm, push alarm message to APP, and trigger output for certain alarm.

	Face Recognition Setup
Face List Setup WhiteListSetup	Camera Setup
	Enable
AlarmMonitorWidthLevel	Level 5
Alarm Threshold	
	50%
Alarm Filter Second	20 sec
	Enable -
	Stranger
	Веер
	😰 EmailComments
	🗳 Push Alarm
	BtnSelectAlarmout
	Save Exit

Face searching

All detected faces can be searched out from the live view, including face information. Also it can search the corresponding face from white/black list. Double click the searched face picture will playback the corresponding video. Select the face picture, it can be exported to USB or added into white/black list.



Face Capture IP Camera



NVJ552FP



- 1/1.8 inch 2MP CMOS, SONY image sensor
- Support to select face detection zone, multiple parameter setting, face parameters setting, professional capture rate
- Support to capture face under the light complex conditions, support face tracking, face exposure mode, face auto filter
- Using the latest standard H.265+ video compression technology, the compression ratio is high, the stream control is accurate and stable
- Built-in automatic day and night double filter switch mechanism, with manual or automatic color turn black and other switching modes
- Support network disconnection, mobile detection, video intelligent occlusion, intelligent defocus detection and alarm
- Support to set up to 4 ROI
- Support DWDR, 3D DNR

Difference between Face Capture IPC and Normal IPC

Sides	Face capture IPC	Normal IPC	Reason
Face picture	clear for active face	fuzzy for active face	Face capture IPC use multi-frame interfusion to get a face, but normal IPC just capture a frame to get face
CPU usage for NVSS	less	more	Face capture IPC track all face in live video and send a clear face picture to NVSS directly, but normal IPC just send video stream with face, NVSS need to decode video stream and get a face from image

Performance index based Normal IPC

CPU	Analysis channels	Frame per second	Max faces in per camera
Intel Celeron	1	2	<=2
	2	1	<=4
Intel Core i2	2	2	<=2
	3	1	<=4
	3	2	<=2
	2	3	<=2
	2	2	<=3
Intol Coro i7	2	1	<=7
	4	3	<=2
	4	2	<=3
	4	1	<=7

Performance index based Face Capture IP Camera

CPU	Total faces analyzed per second	Analysis channels	Average Max Faces in per camera
	4	1	<=3
Intel Celeron		2	<=2
	16	2	<=5
Intol Coro i 2		4	<=4
inter core is		6	<=3
		8	<=2
		4	<=8
	32	6	<=5
Intel Core i7		8	<=4
		10	<=3
		16	<=2



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