

FACETrack Intelligent Facial Tracking Solution



Capture



Match



Track



De-identification facial matching without violating privacy

- Do not need to enroll face in advance
- Create face index automatically to increase search speed
- Can identify the same person with or without mask

Use existing surveillance camera

- Use existing surveillance cameras to match faces
- Match faces across cameras

Provide effective method to search face from video archive

- Search faces from integrated VMS (Video Management System) video archive
- Select time period and camera list to shorten search time

Affordable and scalable system

- AI model optimized for Intel CPU, do not require GPU card
- Robust and safe embedded Linux system

Function



Face Board

- Capture faces from live video feed
- Create face index and display in face board
- Display all faces or unique faces



Create Task to search Face

- Search faces from Face Index
- Search faces from video archive from VMS
- Search faces across different cameras
- Search faces even with mask on



Investigation

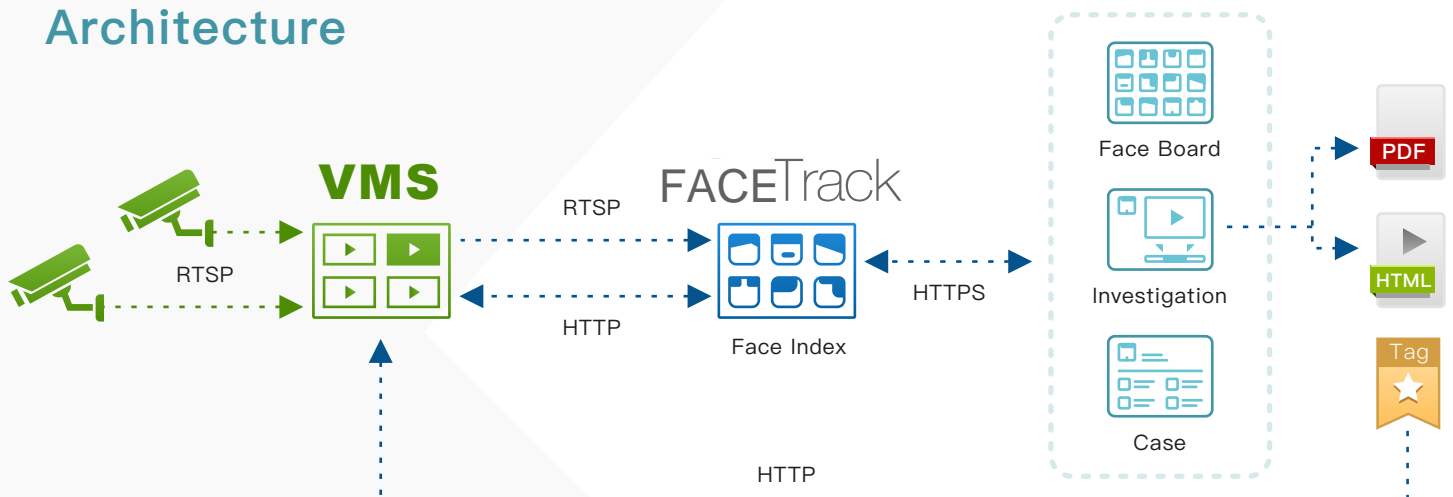
- Display incident list in timeline sequence
- List target person and the persons nearby
- Review video clip at the target person



Keep Evidence

- Create PDF document report
- Export evidence with video clip in HTML format
- Create bookmark in VMS
- Create Case for further investigation

Architecture



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Specification

Video Source	Support RTSP protocol, including IP camera, VMS, DVR, NVR
Face Matching	Face size larger than 100x100 pixel, target face can come from Face Board, album or photo uploaded manually (supports JPG and PNG format)
Face Index Keep Days	Keep 14 days on the facial landmark data
Face Index Search Engine	Takes 1 second to search 10,000 faces in Face Index database
VMS Search Engine	Takes 10 minutes to search 1 hour video archive (1080P)
Supported Video Archive	Network Optix

Functions

Face Board	<ul style="list-style-type: none"> Update frequency: Retrieve faces from face index every 10 seconds Face index generates facial landmark using facial photo captured in real time Display in card or time line mode. Adjust display time period: 1, 6, 12, 24 hours. Adjust photo size Video source: select on or more video source and time period Unique face: categorize faces. Faces of the same person will be displayed as one face and highlighted with yellow border Target person: click and pick the face and add to Target Person panel for investigation
Task	<ul style="list-style-type: none"> Create Task: may create one or more tasks and search in background Select live video source: select face index video channel and time period Select video archive: select video archive channel and time period from VMS
Investigation	<ul style="list-style-type: none"> Incident List: lists incident camera, time, match face, persons nearby Hide nearby faces: remove irrelevant faces by hiding the photo. This action can avoid adding irrelevant faces in report and evidence Review incident video clip: playback video clip starting from 10 seconds before the incident and ending at 10 seconds after the incident Incident Timeline Bar: display incidents on timeline bar. Incident matched from Face Index will show in blue color, Incidents searched from VMS video archive will show in green color. Can play incidents video clip continuously
Case	<ul style="list-style-type: none"> Incident Report: Generate incident PDF report, including reporter, date/time, subject, remark, incident list, target person and persons nearby Incident Video Evidence: generate HTML report with video clip embedded Create Case: create case for further investigation Create VMS Bookmark: generates bookmark in VMS for further investigation in VMS client Review Case: Generate reports from saved cases or save face photo to album

Purchase Information



Model Number		ZTR-4204	ZTR-4216	ZTR-4200	
Live video channel number		4	16	up to 4 channels	up to 16 channels up to 32 channels
Video archive channel number		Same as the number of VMS cameras		Same as the number of VMS cameras	
Hardware Specification	CPU	Intel NUC (Core i7 Gen 10)	Intel NUC (Xeon E-2286M)	Core i7 Gen 10	Xeon E-2286M Xeon E5-2630
	Memory	16 GB	32 GB	16 GB	16 GB 32 GB
	Storage	512 GB	512 GB	512 GB	512 GB 1 TB
	Remarks	Hardware included		Software only	