aira Track Facial Tracking Solution









Al-powered Facial Comparison and Search

- · De-identified facial search method
- Synonym facial search
- Do not need to enroll face in advance

Cross-camera facial tracking

- Use existing surveillance cameras for cross-camera tracking
- Supports RTSP video stream

Efficient ways to track person

- Upload target person's photo for tracking
- · Create watchlist for target person tracking and alert
- Search captured faces from live video and VMS video archive

Flexible system configuration

- Pre-trained Al model with optimized system configuration
- · Robust and secure embedded system, verified with vulnerability scanning software
- Easy to expand and scale up

Product Features



Face Board

- Display capture faces from live video on face board
- Display number of faces in one hour time period
- Merge duplicated appearances of faces in 10 minute time period
- Mark faces when recognized as watchlist



Investigation

- List matching incidents on the target person
- Mark occurrences on time line
- Review video footage associated to the incidence



- Match faces captured from live video stream
- Match faces in VMS video archive
- Display search completeness percentage status



Evidence

- Generates VMS bookmarks and events
- · Create investigation report in PDF file
- Download video clips associated with the incidents
- · Create case for further investigation and review



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System Specification







Image Source	Supports IP cameras, VMS, DVR, and NVR using the RTSP protocol.			
Facial Matching	The face size must be greater than 100x100 pixels, and the system automatically captures and stores face indices from the video source. When adding a new face index, the system automatically compares it with pre-added faces in the album to determine if the individual matches specific lists. Photos can be uploaded to the album (supports JPG and PNG formats).			
Face Index Storage Duration	Stores faces and facial feature values captured from real-time streaming cameras in the last 14 days.			
Face Index Search Performance	Can match 10,000 face index data in 1 second.			
VMS Search Performance	Approximately 10 minutes to search 1 hour of VMS video archive (1080P).			
Support for VMS Video Files	Network Optix			

Software Specification

Face Board

- Update Frequency: Face Index updated every 10 seconds from real-time captured faces.
- Video Source: Choose one or multiple real-time streaming image sources and select the desired date.
- Daily Face Statistics: Display the distribution of the number of faces throughout the selected date, hour by hour.
- · Hourly Face Wall: Display detected faces every 10 minutes, merging identical faces to enhance personnel search efficiency.
- Select Target from Face Wall: Choose suitable faces from the wall to add to the album or initiate an investigation.
- Built-in 5 albums for watchlists: Upload photos or store specified faces. Newly captured matching faces are marked on the face wall.

Tasks

- Select Video Source: Choose the video source for real-time captured faces and the time period.
- Select Video File Source: Choose the video file (VMS Archive) source and time period.
- · Search Tasks: Simultaneously create multiple face-matching tasks and perform background searches.

Investigation

- Event List: List the source camera, time, and captured faces for matches.
- Event Video Footage: Capture video footage corresponding to matched faces, with a 10-second buffer before and after the face capture.
- Event Timeline: Mark the video footage corresponding to matched faces on the timeline, which can be played sequentially.

Cases

- · Event Report: Generate a PDF report that outlines the reporter, date and time, subject, description, and the list of target faces in the Incident.
- · Video Reports: Generate an HTML web page report with video, allowing direct viewing of the event report and playback of relevant video footage using a browser.
- Save as Case: Store investigation results as a case for future reference.
- VMS Bookmark: Export investigation results to VMS to create bookmarks for direct playback through VMS.
- · Review Case: Click on the case content that needs reviewing and replay relevant video segments. Save faces from the case to the album.

Purchase Information

	Product Model	ZTR-4204	ZTR-4216	ZTR-4200	ZTR-4200	ZTR-4200
	Number of Real-time Videos	4	16	4	16	32
	Number of Video Archives	the Same Number	r of VMS Cameras	the Same Number of VMS Cameras		
Hardware Specifications	CPU	Core i7 Gen 10 or higher	Xeon E-2286M or higher	Core i7 Gen 10 or higher	Xeon E-2286M or higher	Xeon E5-2630 or higher
	Memory	16 GB	32 GB	16 GB	16 GB	32 GB
	Storage	512 GB	512 GB	512 GB	512 GB	1 TB
	Remarks	the Same Number	r of VMS Cameras	Software Licensing Only		

