



# Face recognition technology

for real-time watch list alerts and anonymous people analytics

- detect, track, recognize and analyze people in live video streams or recorded video footage
- perform instant comparisons to image databases/watch lists
- receive real-time notifications when user-defined events occur (e.g., Banned Person at Entrance West)
- send event notifications via email or messaging app
- use anonymous facial analysis to compute people analytics while protecting privacy
- store and view face streams for each appearance of a person over time



## Applications

### Surveillance

- screen public or private places (e.g., shopping malls, airports, casinos, hospitals and banks) and identify known individuals in real time
- search recorded video files for unknown persons or persons enrolled in a database
- monitor access to restricted areas

### Recognition of valued customers and frequent visitors

- alert staff to provide special treatment to valued customers

### People analytics, people flow and business intelligence

- use anonymous demographical data for operational decisions

- analyze traffic patterns and times to change interior design, place advertising and plan staffing
- detect crowds and manage waiting/transit times in specific areas
- alert staff to persons not wearing a required virus protection face mask
- prevent double-counting or re-entering of the same person

# Features

- stores high-resolution video sequence of the cropped face (face stream) for each appearance
- compares all persons against each other in real time to cluster identities and display all appearances of each person
- provides predefined event detectors with configurable parameters
- enrolls images to watch lists, also from live video streams
- performs complex investigations on persons appearing in real-time camera streams and/or recorded videos
- uses Cognitec's latest algorithms for face finding, matching, age estimation and underage detection (18 or 21)
- provides browser-based user interfaces to use the video analytics capabilities and administrative functions
- includes REST API for reporting, and for integration with video management systems and other external software

## Managed Service Option

### FaceVACS-VideoScan ES

The Enterprise Solution offers customers all the advantages of a turnkey solution.

Cognitec has selected optimal computing and camera equipment to guarantee industry-leading biometric performance.

The subscription-based system can be installed at the customer's premises, at the edge, or in the cloud.

The interface displays various data points and analytics:

- MatchFound Events:** A list of events such as "MatchFound 1h 12min ago | Ongoing" and "New 2h 28s ago | Ongoing".
- MatchFound Video:** Two video thumbnails showing a person's face, with a "MatchFound" label and a time range "12:31:59 PM - 03:31:45 PM | Ongoing".
- Edit Case:** A window for editing a case, showing a face scan and a "Property" section.
- Navigation Menu:** A central menu with icons for:
  - Events (checkmark icon)
  - Administration (gear icon)
  - Management (document icon)
  - Galleries (list icon)
  - Visits (two people icon)
  - Investigations (magnifying glass icon)
  - Recorded Media (video player icon)
  - Statistics (pie chart icon)
- Gender Chart:** A bar chart showing the number of persons by gender (Female and Male) over time.
- Number of Visiting Persons:** A bar chart showing the number of persons over time.
- Age last 24h:** A pie chart showing the distribution of ages (0.0-20, 21-40, 41-60, 61-80, 81-100).

Cognitec is the only company worldwide that has worked exclusively on face recognition technology since its inception in 2002. Various independent evaluation tests have proven the premier performance of the FaceVACS® software. Cognitec's portfolio includes products for facial image database search, recorded video investigation, real-time video screening and people analytics, border control, ICAO compliant photo capturing and facial image quality assessment. Corporate headquarters are located in Dresden, Germany; other offices in Rockland, MA, USA and Sydney, Australia.



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