



# VIDEMO 360 ALL IN ONE

 **VIDEMO**  
Intelligent Video Analysis

# VIDEO ANALYSIS WITH VIDEMO 360

THE NEXT GENERATION OF FACE RECOGNITION FOR VIDEO ANALYSIS. Videmo 360 is the ideal tool for analysing your video data. In the case of large amounts of video material from various sources, investigators are often overwhelmed, since conventional software does not provide support for the efficient elucidation of incidents. Thus, for every suspicion, many hours of video material must be manually searched through. This work is drastically reduced by the use of Videmo 360.

## FUNCTIONS

Videmo 360 is an interactive software for searching video recordings using machine face recognition. It allows the user to quickly get an overview of all the people in the video, search for specific people, and jump to the find spots in the video. Videmo 360 analyses the incoming video streams and prepares them for the later face recognition. In the case of suspicion, each face can serve as a starting point for a search query, similar find spots are displayed in seconds. This way, the movements of investigated persons can be discerned and suspicious cases are swiftly cleared up.

## FORENSIC SEARCH FOR PEOPLE

By automatic indexing of video material and fast crawling through faces (instead of, for example, the error-prone motion detection), once seen persons can be found in other video sequences in the shortest possible time.

In addition to the forensic search, known persons can be enrolled, automatically detected and profiles can be created.



## FUNCTIONS

- Automatic indexing of video material and fast browsing based on face detections
- Face recognition based on video instead of single frames (higher accuracy)
- Recognition of searched faces also using non-frontal views
- Easy start of query by using an uploaded image (mug shot, photofit picture) or face in the video stream
- Chronological sorting, filtering for identity, age or gender
- Quick and convenient overview of found video clips as sorted list of thumbnails
- Interactive, refining search for enrolled identities
- Fast parallel search also for large, distributed installations possible
- Export of single frames as jpg files

## BETTER RESULTS THROUGH USER FEEDBACK

When the first results are delivered, the user can tag these to be used as complements in a subsequent query, producing even more numerous and more precise results.

This means Videmo 360 is able to learn from the user feedback, such that the accuracy of search results is increased in every step.

# VIDEMO 360 FOR MOBILE MISSIONS

**REDEFINED UNDERCOVER INVESTIGATION.** Videmo 360 supports your mobile operations by detecting and identifying faces in video streams. Manual scanning of video material is now a thing of the past, because hence you can see clearly and chronologically all transactions listed and you can evaluate them quickly and conveniently.

## ADVANTAGES

In observation scenarios, the effort involved in later video analysis is dramatically reduced by automatically capturing faces. (False) alarms, which are generated, for example, by means of commercially available motion detection methods, are practically excluded by the generation of events with attached facial images in Videmo 360. Timestamps assist in tracking the movements of the persons to be checked and thus support the gathering of evidence.

## FACTS AND FIGURES

- Combined day / night operation
- Operation with a network of distributed cameras is possible
- Fast detection and identification
- Unlimited number of people in the alarm list
- Standalone operation or integration with existing VMS
- Ideal for mini-PCs (e.g. Intel NUC), approx. 2 CPU cores per camera channel

## SCENARIO 1 - UNDERCOVER INVESTIGATION

Videmo 360 is ideal for undercover investigation and the observation of properties. In connection with a mini-PC you get a very mobile tool. The high sensitivity in the detection of faces gives you an overview of the happenings quickly and easily.

## SCENARIO 2 - ALERTING

In addition to scenario 1, Videmo identifies suspicious persons and alerts in real-time.

Both scenarios have in common that you can access Videmo 360 locally or remotely. In the latter case, the events can be quickly and easily synchronized with the Videmo 360 server, even through slow wireless networks thanks to compact thumbnail views.

## FUNCTIONS

- Video-based face detection (more reliable than single images)
- Logging of face image data for all events
- Easy browsing of the logs based on date/time, camera, suspicious case, etc.
- Easy enrollment of identities, e.g. with previous sightings
- Learning system: False alarms can be corrected manually and become less frequent
- Operator access from remote location
- Thumbnails of detections and identifications can be stored separately in directories
- Video material does not have to be transferred or physically retrieved from the observation location

## SELECTING THE RIGHT CAMERA

Videmo 360 captures streams from

- IP cameras that support RTSP or Motion JPEG (MJPEG) over HTTP
- USB cameras that support Video4Linux (Linux) or DirectShow (Windows)
- Special models suitable for face recognition

# FACTS & FIGURES

OS	Linux (64bit) or Windows (64bit)
Architecture and mode of operation	<p>Scalable client-server system with graphical user interface</p> <p>The system is designed for the cooperative work of several users on a shared image and video database or alarm list. A central site (server) provides a database of offline imported or live recorded material and allows access over the network from several clients. The video material is imported in the server, which is dimensioned accordingly for efficient processing. Live capture can be carried out via distributed, remote-connected camera endpoints.</p> <p>The clients are applications that are installed locally. They connect to the server and offer users a comfortable interface, which allows a quick analysis.</p>
Supported video formats	All common formats supported by FFMPEG are suitable for import. Other special formats on request.
Supported camera types	IP cameras (RTSP or MJPEG over HTTP), USB cameras (Video4Linux (Linux), DirectShow (Windows)) as well as special models suitable for face recognition
Resolution faces	Minimum face width for detection 12 x 12 pixel Recommended eye distance for analysis 50 pixel

## CONTACT US

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