




Face Recognition

Opportunities:

- Real-time face detection and recognition
- Determination of gender and age
- Fixing location and movement of the person
- Identifying faces and comparing a recorded face with a database
- High quality face recognition even with glasses, cap and face movements
- Creating of "white" and "black" lists for individuals
- Setting notifications for lists: sending to Email / Telegram / SMS
- Restrict notifications for a specific user groups
- Ability to set up and receive reports by hour, day, week or month
- API integration



Gender: **Male**
 Age: **30 - 37**
 List: **Managers**
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Flexibility



Security



Scalable

Areas of use:



state institutions



schools and kindergartens



customs airports railway stations



business centers



shopping centers



banks



hotels



private use

Search for missing and dangerous persons

Preventing the entry of strangers into the territory

Demographic analysis of visitors

Automatic access to private ownership authorized employees

Control the time of stay for recognized persons in the territory



Face Recognition

Minimum server and client requirements for 1 video stream

CPU	Intel Core i5-5575 and newer
MEMORY, RAM	3 GB RAM - detection, 5 GB RAM - detection+recognition
HD	128 GB
OPERATING SYSTEM	Ubuntu 18.04
GPU	Nvidia Pascal (gpu architecture) or newer
VIDEO MEMORY	900 MB - detection, 3GB - detection + recognition

Specifications

Detection time	8-15 ms
Recognition time	10-20 ms
Face size (detection)	min: 60x60 px, recommended: 80x80
Face size (recognition)	min: 100x100 px, recommended: 120x120 px
Face rotation	Optimal up to 45°
Face tilt	Optimal up to 30°, either horizontal or vertical
Processing time	20 to 150 ms
Supported protocols	RTSP, H264 Motion JPEG, JPEG, AVI
VMS	MILESTONE
Supported cameras	All cameras, RTSP
Maximum number	All cameras, RTSP
Other video sources	Avi Files, Ficheros Jpeg, Bmp
Database	MS SQL Server Express, MySQL, PostgreSQL
Third Party Integration	JSON messages via HTTP or MessageQueue
Notifications	Email, SMS, Telegram
Language	English, German, French, Ukrainian, Russian

Video stream requirements

Connection	RTSP
Codecs	H.264/MJPEG
Frame rate	15+
Resolution	minimum: 720p, recommended: 1080p
CCD / CMOS:	1 / 1.8 or higher