VEZHA

Crowds Detector

Features overview

- **AVAILABLE RULES:** Ability to set the size of the crowd and set the zone.
- **REPORTS:** Ability to upload a photo with violation, time and place.
- **BUSINESS LOGIC:** Availability of a system for building business logic.
- **TIME PERIOD:** Limit the search criteria to specific time intervals.
- **DATABASE SUPPORT:** MySQL, PostgreSQL, MS SQL, Oracle Database
- **VMS INTEGRATION:** VMS Integration -Milestone XProtect, Nx Meta
- **NOTICE:** intuitive notification settings, fixing violations in photo and time format.

Flexibility	Security	Scalability

Areas of use

state institutions	kindergartens schools universities	customs airports railway stations	business centres	shopping malls	banks	hotels	private property

Analytical module "Crowds" allows you to determine the congestion of people in an open area or on the street.

You can set the size of the crowd, and the area to detect the crowd. The module will be useful for state firms, companies and authorities.

Technical information

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Cross-platform solution (Windows, Linux)	✓
Centralized management	✓
Ability to work with various options for video sources	✓
Ability to process statistical data and generate reports	Microsoft Power BI and others
Search (filterable) data	✓
Filtering reports by time and date	
Determining the crowd	✓
Identifying crowds	✓
Cluster fixation	✓
Identification of different sizes of clusters from 2 people	✓
Configuring analytics rules	✓
The ability to receive reports by the hour, day, week or month	✓
Import and export support (EXCEL / PDF)	✓

Security

Restricting access to a specific user group using access rights	✓
Business logic building system	✓
Encryption of information with dynamic keys that change with	✓
each launch of the module	✓
NVIDIA CUDA Technology Support	✓
Integration with various VMS: Milestone XProtect, Nx Meta	✓
Plugin availability: Milestone XProtect, Nx Meta	Ready
Personal data protection	98%
Support for various interface languages: English, German, French,	✓
Ukrainian, Russian, Arabic	
Combination with analyzed data from external sources (ERP)	✓
Camera support	All models, RTSP stream

Alarms and Messages, Technical information

Codecs -H.264 / MJPEG	✓
Open tools for integration and development	✓
RTSP connection	✓
Video formats supporting: AVI, .MKV, .MPEG4, .MOV, .WMV, .DVR, .ASF, .RT4, .DIVX, .264, .GE5, .TS, .3GP, .XBA (single & multi-stream), .MP4, .FLV	✓

Hardware Requirements

CPU	Intel Xeon Silver 4208
RAM	8 GB
GPU	RTX 2080TI 11GB || RTX 3090 24GB Quadro RTX 4000 8GB || Quadro A6000 48GB
Archive resources	up to 4GB per day
Operating system	Ubuntu 18.04.3 LTS (Bionic Beaver)