













Opportunities

-  The analytical module "Determination of gender/age" allows you to determine the gender and age of visitors to the mall, store, and public places, as well as based on this data generate effective reports to guide information about visitors to form a portrait of a potential buyer, determine an active audience, and market research. The module helps to generate reports for the top management of companies and determine the effectiveness of campaigns, increase the level of visits to trade facilities, and improve the interest of certain age groups of buyers.
-  Attributes: male; female.
-  TIME PERIOD: Limit the search criteria to specific time intervals.
-  BUSINESS LOGIC: Capability of the system of building business logic.
-  DATABASES SUPPORT: MySQL, PostgreSQL, MS SQL, Oracle Database
-  VMS INTEGRATION: VMS integration - Milestone XProtect, Nx Meta
-  GENDER DETERMINATION: the module allows you to determine the gender of the person.
-  ACCURACY: the system allows determining the gender and age of a person with high accuracy.
-  DETERMINATION OF AGE: the system allows us to determine the age of a person in the age range.
-  FIXATION OF PLACES: the system records the places of stay and movement of the person.
-  REPORTS: the ability to customize and receive reports by the hour, day, week or month.
-  REAL-TIME GENDER AND AGE DETERMINATION: The system performs real-time gender and age detection with high accuracy.



Flexibility



Security



Scalability

Application



state
institutions



schools
kindergartens
universities



customs
airports
railway stations



business
centers



shopping
centers



hospitals
clinics



banks



hotels



parkings



private use

General Information

Cross-platform solution (Windows, Linux)	✓
Centralized management	✓
Ability to work with different video sources	✓
Ability to process statistical data and generate reports	Microsoft Power BI and others
Search (filterable) data	✓
Filtering reports by time and date	✓
Gender determination	✓
Age determination in the range	✓
The ability to receive reports by the hour, day, week or month.	✓
Import and export support (EXCEL / PDF)	✓

Security

Restricting access to a specific consumer 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	✓
Security of personal data	98%
Support for various interface languages	✓
Interface languages: English, German, French, Ukrainian, Russian, Arabic	✓
Building of the statistics based on the analyzed data	✓
Combine with Analyzed Third-Party Data (ERP)	✓
Camera support	All models, RTSP stream

Alarms and messages, Technical information

Codecs -H.264 / MJPEG	✓
Open tools for integration and development	✓



Gender/Age Determination

Connection	RTSP
Video formats support: AVI, .MKV, .MPEG4, .MOV, .WMV, .DVR, .ASF, .RT4, .DIVX, .264, .GE5, .TS, .3GP, .XBA (single & multi-stream), .MP4, .FLV	✓
Recommended face size in pixels	100 × 100

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)