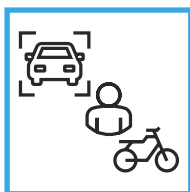




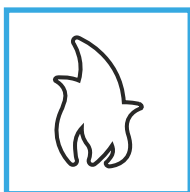
Orwell 2k



Video surveillance system with computer vision



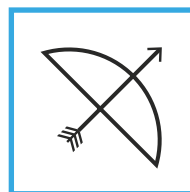
Classification of the detected targets



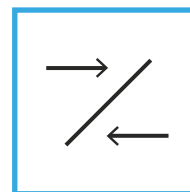
Fire detection



Crowds of people



Detection of the thrown over objects



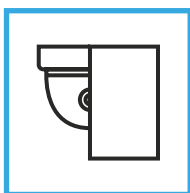
Crossing the line in the specified direction



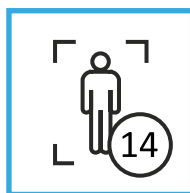
License plate number recognition



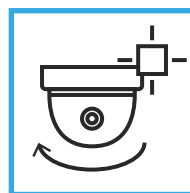
Left objects detection



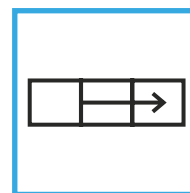
Camera being covered



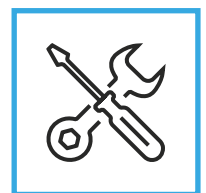
Targets count



Video analysis on the tiling cameras



Panning



Opportunity customization

Orwell 2k

Video surveillance system with computer vision Orwell 2k offers automatic targets and situations detection and classification and transmission of the video information to the operator in a real-time mode.

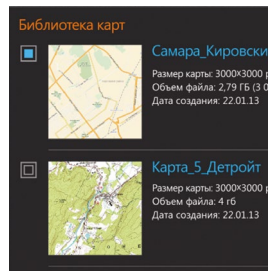
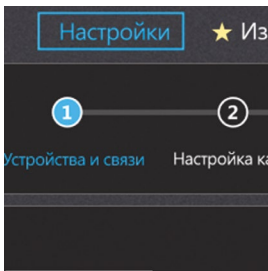
Computer vision algorithms used in Orwell 2k system were developed by ELVEES-NeoTek company. These algorithms of the computer vision allow to minimize the cases of false triggering and to detect targets and situations in a difficult jamming environment.

New analytical functions can be realized in the video surveillance system with computer vision Orwell 2k if required by the client.

Functionality:

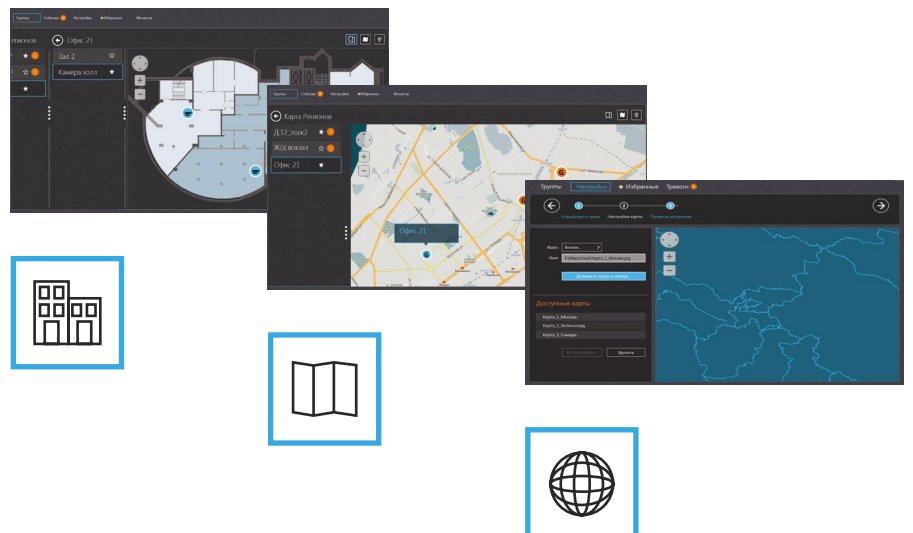
- automatic real-time detection, classification and tracking of the targets and situations using images from video cameras, thermal scanners and radars;
- automatic pointing and tracking of the targets by pan and tilt video cameras;
- creation of the detected targets and situations database in a real-time mode;
- displaying mnemonics of the moving targets and situations on the object map;
- audio and visual alarming of the operator in case of the specified situation arising;
- system operability self-testing and alerting if some elements of the system fail to work;
- minimal false triggering (special feature of Orwell 2k video analysis);
- search in archive by time, target class, number or name of the signal source (or group of sources), event or operator's comment;
- control over the operator actions in order to minimize the human factor impact, f.e. in case of conspiracy between the operator and the violators;
- web-inquiry for statistics.

System features



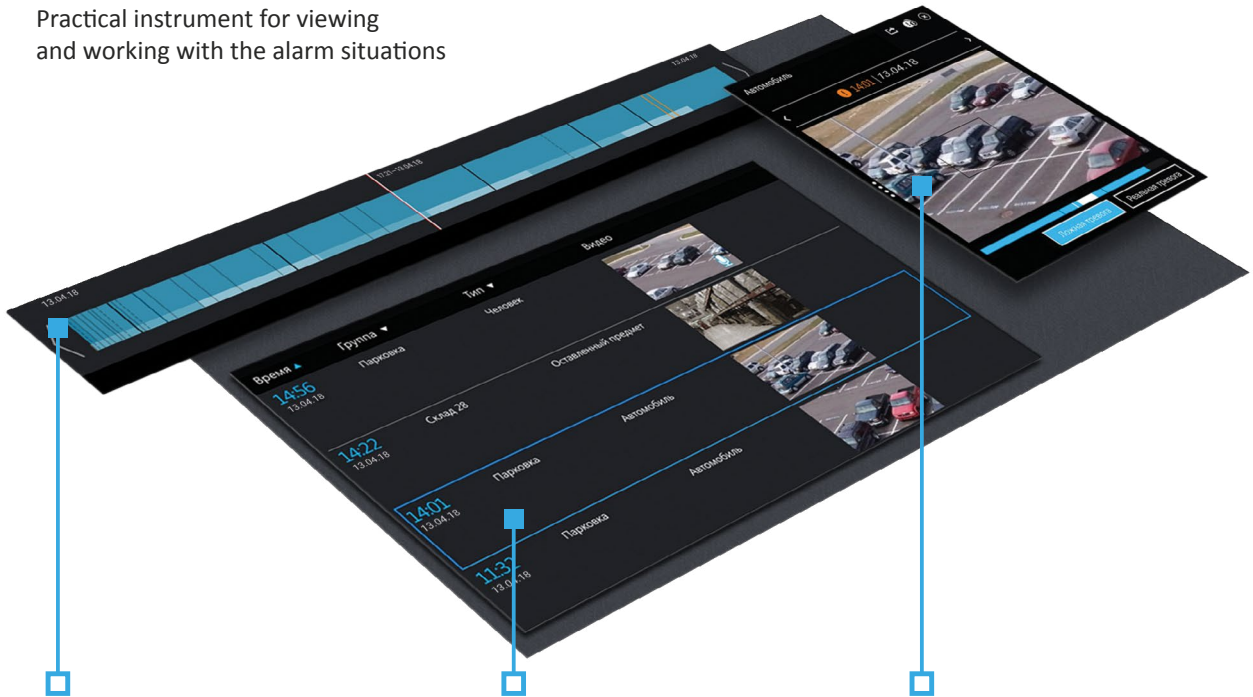
User-friendly step-by-step set-up in one application (from adding video cameras and loading object maps to setting the video analysis algorithms).

Multilevel object maps. The cameras can be grouped (whether they are mounted in the streets, indoors, on the floors, etc.) to obtain a common understanding of the situation both on the one local object and several objects in the territory.



Interface

Practical instrument for viewing and working with the alarm situations



Archive showing the periods of time when alarm situations arose and their status (checked, unchecked, false)

A list of alarm situations

Window showing the video information and displaying the alarm situation

Innovative approach to the archive implementation:

- ergonomic archive elements: a fragment can be chosen with up to one second accuracy;
- video information can be displayed and exported simultaneously from several cameras;
- convenient work with the calendar;
- speed control of the displayed video;
- video information can be displayed frame-by-frame.

