"Perimeter-M" Standalone Portable Video Surveillance System

"Perimeter-M" standalone portable video surveillance system for video surveillance and monitoring of important approaches and perimeters.

Easily deployable system, continuous unmanned operation.

High portability is provided by fast-assembled parts of the system.

"Perimeter-M" is car-portable and allows setup by 3 people within 3 hours.

Specially designed carrying cases are included to store and carry the system component parts and accessories.

The system incorporates video surveillance cameras, "RadioFence" integration module, communication and control unit, laptop with preinstalled software, independent power supply units.

Purpose:

- Real time smart video surveillance of sensitive perimeters (take-off runways, building sites, mass gathering places etc.) or border sections;
- Integration with "RadioFence" security sensors. Sensors detect a disturbance and trigger cameras to deliver video of the alarm source;
- Inherent security enforced by "RadioFence" sensors;
- Independent power supply by accumulating batteries.

The system is applied for 24/7 video surveillance in visual range, to watch open land areas, perimeters and for border control in complete darkness and in different environmental conditions.

Narrow- and broadband channels are applied to create radio network. Narrowband is applied to connect "RadioFence" security sensors and control power supply for inline and base sets. Broadband is applied to transmit video from cameras to the laptop. Network configuration is carried out automatically regardless of where the system is installed and without operator input.

The system is operated from a laptop with preinstalled software connected to control unit via special cable.

The system is equipped with a connection unit to add radio channel security sensors (CVD-105, CVD-102, CVD-110). Sensors are displayed and managed by software ensuring their map control. Alarm sounds and images instantly inform operator about disturbance detection by security sensors with real-time video from alarm camera.

The system can operate in power-saving mode (all system modules are off-the-line) – sensors detect disturbances and trigger activation of the system. Customer-tailored sequence of the system's actions on sensor alarms.

Power supply of the system in provided by 12V DC voltage from accumulating battery units or from the grid when batteries are charged from 220V AC. The scope of supply includes a 220V charging device able to provide power for 9 batteries at one time.

Batteries can feed the system for 24 hours continuously and one set can be replaced by another one connected to another socket. Batteries charge is sufficient to feed the system for several days in power saving mode.

The system is deployed by the guards on temporary deployment location. Communication and control unit is to be installed on a tripod placed on the ground at the base set location. Then accumulating batteries should be connected. After this the inline set is to be deployed. CVD-860 cameras, communication and control unit are fixed on tripods and accumulating units are connected. "RadioFence" sensors can also be installed on the tripods. Laptop is connected to the base or inline part through radio channel (narrowband and Wi-Fi) or via special cable. The system is operational now. The operator has to replace accumulating batteries once a day.

Basic Scope of Supply:

Name	Quantity
DVS-860 IP Camera Outdoor fixed IP camera with IR illumination for day and night surveillance	8 pcs.
CCU-S Control unit Communication and control unit for generation of radio network and operation as base station and for DVS-850 camera control, laptop connection.	1 pc.
CCU-L Control unit Inline communication and control unit for generation of radio network and operation as a wireless repeater to transmit video stream from IP camera, controls power supply for DVS-860, laptop connection.	8 pcs.
SBSM-U Is intended to generate network within 433MHz and laptop connection by narrowband link. Applied to connect "RadioFence" sensors.	1 pc.
Accumulating battery unit Is intended to provide electrical power for the system.	18 pcs.
Laptop with "Perimeter-M" SW Is intended to generate common information space, stores and displays information from IP cameras. Supplied with chargers for 220V and 12V.	1 pc.
SB220/12V Outdoor Is intended to power communication and control units from 220V AC.	9 pcs.
Packing set Includes carrying cases for DVS-850, DVS-860, communication and control units, laptop	1 set.
Tripod Is intended for installation of the system components (DVS-860 or DVS-850, communication and control unit, radio link, accumulating batteries)	9 pcs.
220V Charger For simulations charge of 9 batteries from 220V	1 pc.

Expansion sets:

Name	Quantity
IP-видеокамера DVS-850 IP Camera PTZ camera with IR illumination for day and night surveillance.	1 pc.
DVS-860 IP Camera	1 pc.
CCU-L/ CCU-S Control unit	1 pc.
Accumulating battery unit	1 pc.
SB220/12 V Outdoor	1 pc.
Tripod	1 pc.
Charger 220V	1 pc.

System Specification:

Name	Value
DVS-860 IP Camera	Sensor - 1/2.8" Progressive Scan CMOS. Max resolution 1920×1080, 25к/с (1920×1080), 25fps (1280×960), 25 fps (1280×720). IR illumination
DVS-860 Max human detection range at daylight	150 m
DVS-860 IP camera IR illumination range	Up to 30 m
DVS-850 IP Camera	Sensor 1/2.8" CMOS, (1920*1080) 25 fps. Lens 4.7-94, 20x, IR illumination
DVS-850 Max human detection range at daylight	500 m
DVS-850 IP Camera IR illumination range	Up to100 m
Scalability	Extension sets allow scale up the whole system
Equipped tripod height	3
Remote power for efficient battery operation - Power save mode	Yes
Integration with "RadioFence"	Yes