

# "GROM-1"



## INTELLIGENT ALPR VIDEO CAMERA

**This intelligent video camera is designed for automatic license plate recognition (ALPR) and vehicle position determination on a road section. The camera also provides video surveillance and automatic vehicle classification features.**

### SCOPE OF APPLICATION

**ALPR AND PHOTO CAPTURING  
OF ALL PASSING VEHICLES**

**AUTOMATIC VEHICLE CLASSIFICATION**

**HIGH RESOLUTION VIDEO SURVEILLANCE**

**VEHICLE ACCESS AND MOVEMENT  
CONTROL ON SENSITIVE OBJECTS**

**VALUABLE DATA SOURCE FOR  
DETECTIVE-SEARCH ACTIVITIES**

**DATA TRANSMISSION FOR STATISTICAL  
ANALYSIS OF TRAFFIC FLOW INTENSITY**

**SYNCHRONIZED IR SPOTLIGHT (OPTIONAL)**



### DESIGN AND OPERATION PRINCIPLE

The video camera is made in compact self-enclosed body and equipped with embedded software. It is installed at height of several meters on a stationary support (lighting pole, framework support etc.) either on any roadside or directly above the road. System setup and alignment are performed remotely using the Web interface.

The "GROM-1" video camera may simultaneously control three traffic lanes. The camera performs automatic license plate recognition and streams the gathered data in real time, including the photos of entire controlled area and close-up views of captured vehicles with visible license plates.

The license plate recognition process is performed along the entire controlled area. The camera also collects the traffic statistics among all passed vehicles.

The camera may be used as a key part of intellectual transport and traffic enforcement systems.

## MAJOR FUNCTIONS AND FEATURES



### AUTOMATIC LICENSE PLATE RECOGNITION

- Automatic license plate recognition for various countries, including 2-line and 3-line number plates.
- Neural network technology ensures quick adaptation to new license plate formats.
- ALPR, data processing and streaming are performed within the camera body — no external computing power is needed.



### TELEMETRY AND DIAGNOSIS TOOLS

- Supports self-diagnosis and remote diagnosis features.
- Telemetry information streaming in real time.
- Automatic tracking of health parameters with user notifications in case of unusual behavior.



### VIDEO MONITORING

- High resolution video streaming in real time.



### DATA PROTECTION

- Embedded software and captured data are protected against unauthorized changes.
- Logging of all system events and user actions.



### AUTOMATIC PHOTO EVIDENCE CAPTURING

- The camera controls and captures all passing vehicles on 3 lanes of traffic in both directions.
- Automatic vehicle class determination.



### DATA TRANSMISSION

- The captured data is transmitted to Back Office in real time via secure wired connection.



### TECHNICAL FEATURES

- Extremely low body dimensions and supply power.
- Automatic synchronization with street lighting.



### STATISTICS COLLECTION

- Gathering the statistical data on traffic flow intensity and other properties.
- May be an integral part of traffic management systems.



### NIGHT TIME OPERATION

- May be equipped with external IR spotlight for night time operation.