



ViaPK

Perkons Electronic Surveillance Vehicle

The Perkons Electronic Monitoring Vehicle – VIAPK is a vehicle that carries in its interior the equipment necessary to perform vehicle surveillance in a non-intrusive and itinerant manner. The product is operated by technicians who, based on the information generated by the system, can issue, within VIAPK itself, a vehicle's violation records.

Features

VIAPK is ideal to be used in situations where the detection of vehicles involved in violations must be automatic and discreet, wherein its operation is possible with the vehicle entirely closed. Furthermore, through license plate recognition, vehicle restrictions can be queried before the supervisory bodies of the transit system.

Application

The VIAPK system enables fleet monitoring and speed control through the integration of a laser speed measuring device and cameras equipped with an OCR license plate recognition system.

Characteristics

- Vehicle under the van category adapted to follow CONTRAN (National Traffic Council) rules;
- Accommodates up to three operators simultaneously, one of them on the operations desk;
- Air-conditioned internal environment enabling the operation of the ViaPK while closed;
- All equipment is installed inside the vehicle making vandalism actions and wear and tear, due to exposure to the weather, impossible;
- Equipped with infrared illuminator for image capture in night operations;
- System with 6-hour autonomy through the use of a battery pack;
It features visual and audible signaling equipment such as strobe, giroflex and siren;
- Features color inkjet printer with USB 2.0 connection and resolution up to

720x720 dpi;

- The vehicle is equipped with two computers, three routers, two switches for system operation and data flow management;
- Vehicle under the van category adapted to follow CONTRAN (National Traffic Council) standards.
- The vehicle has all the necessary adaptations for the occupation of three operators at once, wherein one person is accommodated at the operations desk;
- The furniture is fixed, avoiding its movement during the movement of the vehicle;
- It allows the operations to be carried out with the vehicle entirely closed, featuring air conditioning to preserve the comfort of the operators;
- The cameras and other equipment are installed inside the vehicle, making vandalism actions impossible and preserving them against weather-related actions.

Static radar for speeding records

- Performs speed measurements, with the possibility of using images with a resolution of up to 5MP and an optical format of 6.35mm;
- Performs file transfer by Wi-Fi, Ethernet or using a memory card;
- Features image visualizer software specific for managing the collected data;
- It has a GPS receiver for automatic system time setting;
- It has a Real Time Clock (RTR) and its accuracy is 20 parts per million (ppm) when operating at temperatures between -30° C and +60°;
- It can be fixed on a support inside the vehicle or mounted on a tripod;
- Features 7.4V rechargeable lithium-ion battery with short circuit and overload protection and up to 8 hours of battery life;
- External material in polycarbonate and internal chassis in aluminum, IP55 degree of protection. Operation at a maximum temperature of 60°C;
- In addition to the image of the vehicle involved in the violation, it also records the speed, date and time and the maximum speed allowed on the road;
- Features immunity to radiofrequency interference (IRF);
- License plate capture is performed in day or night operation by two cameras that operate independently;

Variable message panel (PMV)

- It is fixed on a retractable support on the roof of the vehicle;
- The dimensions of the assembled system are 1.60 m to 1.70 m high and 0.80 m to 0.90 m wide;
- The PMV is retractable and has an IP65 degree of protection, while the connections are made using IP67 connectors;
- It features automatic brightness adjustment according to ambient light;
- It has an electronic controller device for panel management and communication, configured via Bluetooth and with remote communication via 3G/GPRS modem with two SIM cards and web interface, allowing access from anywhere;
- It consists of six independent high brightness LED modules with luminous intensity of 10,000 cd/m²;
- The panel is made of flame-resistant material, with UV protection and vibration-resistant;
- The equipment is equipped with an anti-theft and anti-vandalism system;
- The supply of the PMV is carried out by the battery pack installed in the vehicle.

Electric characteristics of the main system components

Radar Laser Tech Trucam II

- Battery: • 7.4 Vdc, lithium-ion
 Battery charger input: • 110 to 240Vac 50/60Hz
 Battery charger output: • 12V/1.8 A

ITSCAM 4111.3Mp Camera

- Consumption: • 5W-12V

VIP 1130 B G2 IP Camera

- Consumption: • < 4.8W-12V

ITSLUX 6022 Illuminator

- Peak current: • 3 A -12V
 Consumption in stand by:• 1W-12V

PMV Trafeg

- Consumption: • 12 A/h
 Voltage: • 12V

DNI Electronic Siren, Model: DNI3300

- Consumption: • 15W-12V

Giroflex Giroled Bar 60cm

- Consumption: • 8.4W-12V

Giroled Strobe Double strobe

- Consumption: • 5.4W - 12V

Epson L3250 Printer

- Input: • 110 to 240Vac 50/60Hz
 Consumption: • Ready mode approx. 4.5W, rest mode approx. 0.7 W

Epever VS4524AU Charge Controller

- Rated Voltage: • 12/24VDC
 Auto Input Voltage Range of the battery: • 9V~32V
 Rated charging/discharging current: • 45A@55°C
 Operating temperature: • 25°C~+55°C
 USB Port: • 5VDC/Max. 2.4 A

Epever IP-1000-12 Inverter

- Input: • 10.8~16VDC
 Output: • 220Vac/230Vac 50/60Hz (±5%)
 Continuous output power: 800W
 USB Port: • 5VDC/Max.1A

Freedom DF4100 Stationary Battery (two units)

- Capacity: • 220Ah/240Ah
 Float Voltage: • of 13,2 to 13,8V @ 25 °C

