

Autopatrol Citizen



Purpose

The system is intended for automatic detection of traffic violations such as failure to yield to pedestrians or other road users in a signal-controlled or uncontrolled crosswalk.

The system forwards violation evidence to Data Processing Center via Ethernet or GSM.

Scope of supply:

- DVS-857A camera – 1 pc.;
- DVS-858A camera – 1 pc.;
- CVD-10215-50 floodlight – 1 pc.;
- CVD-524 controller – 1 pc.;
- Mounting kit – 1 set.

The system applies only one DVS-857A high-resolution camera to detect pedestrians in a crosswalk and recognize vehicle license plates.

DVS-857A camera is installed toward the traffic flow to capture pedestrian crosswalk within 10 meters and vehicle plate recognition zone (20-25 m length, 10 m width).

Flexible operating modes of «Autopatrol Citizen» software allow to position the camera at different angles and height.

If at the same time there is a pedestrian and a vehicle in the crosswalk, the system makes and stores a sequence of pictures for definite evidence of the traffic violation.

The system also can be used at crosswalks with traffic lights for drivers and pedestrians. In this case DVS-858A camera is used to get a picture from the drivers field of view during violation. «Autopatrol Citizen» software defines the color of the traffic light according to video frames without wire connection to the traffic light controller.

CVD-524 controller with preinstalled «Autopatrol Citizen» SW processes video stream, recognizes license plates and time of recognition, generates photo evidence to issue traffic bills and citations and transmits this information to Data Processing Center via secured GSM line (fiber line as an option).

The evidence includes pictures confirming traffic violation. IR floodlight provides 24/7 operation.

«Autopatrol Citizen» traffic enforcement system is applied at signal-controlled or uncontrolled crosswalk.

Technical specification

Parameter	Value
Number of controlled directions	1
Number of lanes in each direction	2
License plate recognition rate, %	96
Operating time	24/7
Camera resolution, px: DVS-857A	1280x960
DVS -858A	1600x1200
Video frame rate, fps.	25
Max IR floodlight distance, m	50
Violation event storage time, days and nights	30
Number of stored violations events	1000
GSM data transmission	Yes
Cycled rerecording	Yes
Different week days and time modes	Yes
Average lifetime, years	5
Meantime to failure, hours	3000
Ingress protection	IP65
Operating temperatures, °C	от - 40 до + 50
AC voltage, V/Hz	220 / 50
Max consumed power, W	580
Weight, kg	30

Template Layout

