



Triple technology radar - ultrasound - infrared

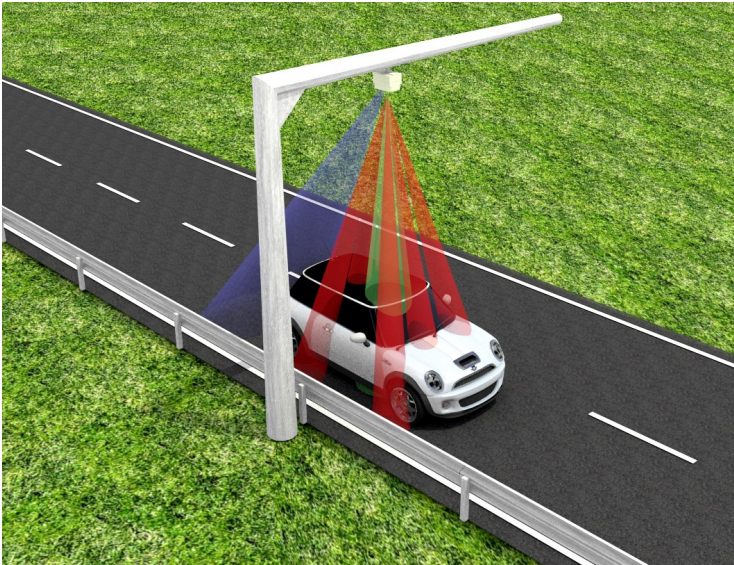
USMI9601 sensor detects vehicles using a combination of microwave radar, ultrasound and infrared technologies. The radar provides the system with the ability to accurately measure the length and speed of the vehicle using the "doppler" effect. Other functionalities, among which the counting of vehicles at low speed and the detection of vehicle height are entrusted to the ultrasonic and infrared sensors.

The set of data collected allows, by using appropriate algorithms, to obtain an accurate classification of vehicles.

INSTALLATION

The triple technology sensors must be installed above the center of each lane and provide the following data:

- Counting
- Classification (8+1 classes)
- Height
- Length
- Speed
- Traffic status



Detection beams: radar (blue), ultrasound (green) and infrared (red)

USMI9601



Technology 1	Microwave radar
Technology 2	Ultrasound
Technology 3	Infrared
Ultrasound frequency	50 KHz
Radar frequency	24.165 Ghz, K Band
Weight	3,4 Kg.
Communication line	RS485
Power consumption	< 2.5 W
Power supply	12 Vdc
Temperature range	-15°C : +50°C