



## Double Technology radar - ultrasound



USM9001 detects vehicles using the combination of microwave-radar and ultrasound technologies. The radar provides the system with the ability to accurately measure the length and speed of the vehicle using the "doppler" effect. Other features, including vehicle counting at low speed and vehicle height detection are performed by the ultrasound sensor.

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



### INSTALLATION

Double technology sensors must be installed above each lane and the data provided are:

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



Detection beams radar (blue) and ultrasound (green)

Technology 1	Microwave radar
Technology 2	Ultrasound
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