

## Cheap and Easy Remote Sensing of Exhaust Fumes

Preserving the environment and using safe vehicular practices are growing concerns not just for traffic regulators but also for educated drivers around the world.

### CHALLENGE

Environmental preservation is a common international concern but harder to implement. With rapid and remote sensing of exhaust fumes now made easy and cheap using a well-tested VTT technology, a concrete action can be made by motorists to keep the air clean.

### KEY SOLUTION

Based on inexpensive infrared analysis technology, harmful gases such as the following can be measured from passing vehicles:

- carbon monoxide
- carbon dioxide
- hydrocarbons
- nitrogen monoxide
- methane

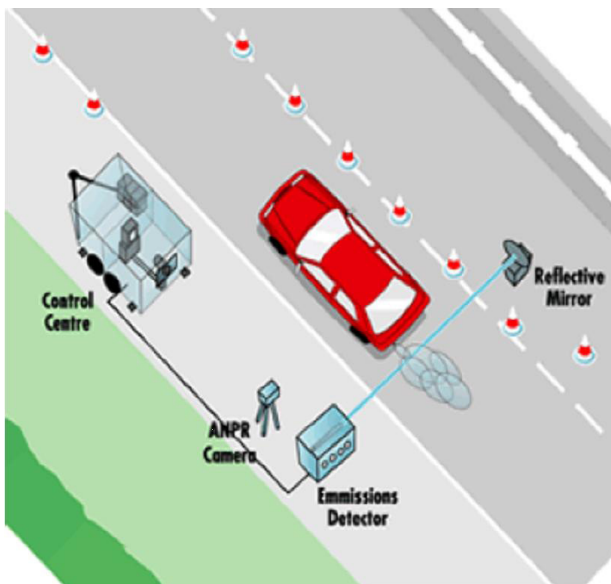
The equipment includes micro technology elements that have been manufactured in a special manufacturing plant in VTT Oulu.

Tests were carried out in England, Netherlands, Greece, and Italy. During a 36-hr period, over 30,000 vehicles were successfully measured during normal traffic hours.

VTT produces research services that enhance international competitiveness of companies, society and other customers at all stages of their innovation process, and thereby creates the prerequisites for growth, employment and wellbeing.

VTT promotes the realisation of innovative solutions and new businesses by foreseeing the future needs of its customers already in strategic research.

With its 2,700 employees, VTT is the largest research organization in Northern Europe. VTT's Ventures operation creates profitable and growing technology and wellbeing as well as more effective use of VTT produced Intellectual Property Rights.



*Rapid and remote sensing of exhaust fumes is easy and cheap using VTT technology.*

## OUR INVENTION IS YOUR BUSINESS OPPORTUNITY

### Technology Summary

Remote Sensing of Exhaust Fumes

*International Patent Applications Pending*

### COMPETITIVE ADVANTAGE

- Efficient real-time monitoring of vehicular exhaust fumes
- Easy to deploy with minimal equipment requirements from VTT Laboratory
- Effortless and straightforward process
- Encompassing and well-tested in several key European cities

### Available for Licensing

VTT offers exclusive and non-exclusive license depending on the technology partner.

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