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**Sodi Scientifica S.p.A.**

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# Company Profile



# Mission

Our Mission is to design, produce and sell products and services in the sectors of Environment and Road Traffic Surveillance, which help to create a better world.

The leading values of our activity are:

- ✓ **integrity**, embracing the strictest rules of honesty, ethical behaviour and exemplary moral conduct
- ✓ **care and respect for people**, being attentive to the interests of all those who come into contact with the company
- ✓ **excellence**, born from the constant quest for new solutions and our aim to be the best in our business sector.

# Profile

## **Sodi Scientifica SpA**

*the value of more than 40 years of experience in the speed enforcement market*

Sodi Costruzioni Elettromeccaniche – as it was originally named – was established in 1964 by Fiorello and Carla Sodi in a small workshop in Florence. At first the company specialized in technical design but soon began manufacturing electro-diagnostic equipment followed by environmental safety products and electronic systems for monitoring road traffic.

The Traffic Division is well-known for its Autovelox Speed Enforcement Device, which is synonymous with speed enforcement nationwide as it entered the Italian lexicon, and other law enforcement instrumentations.

The Environment Division produces instruments - less known to the general public, but equally effective - for water treatment.

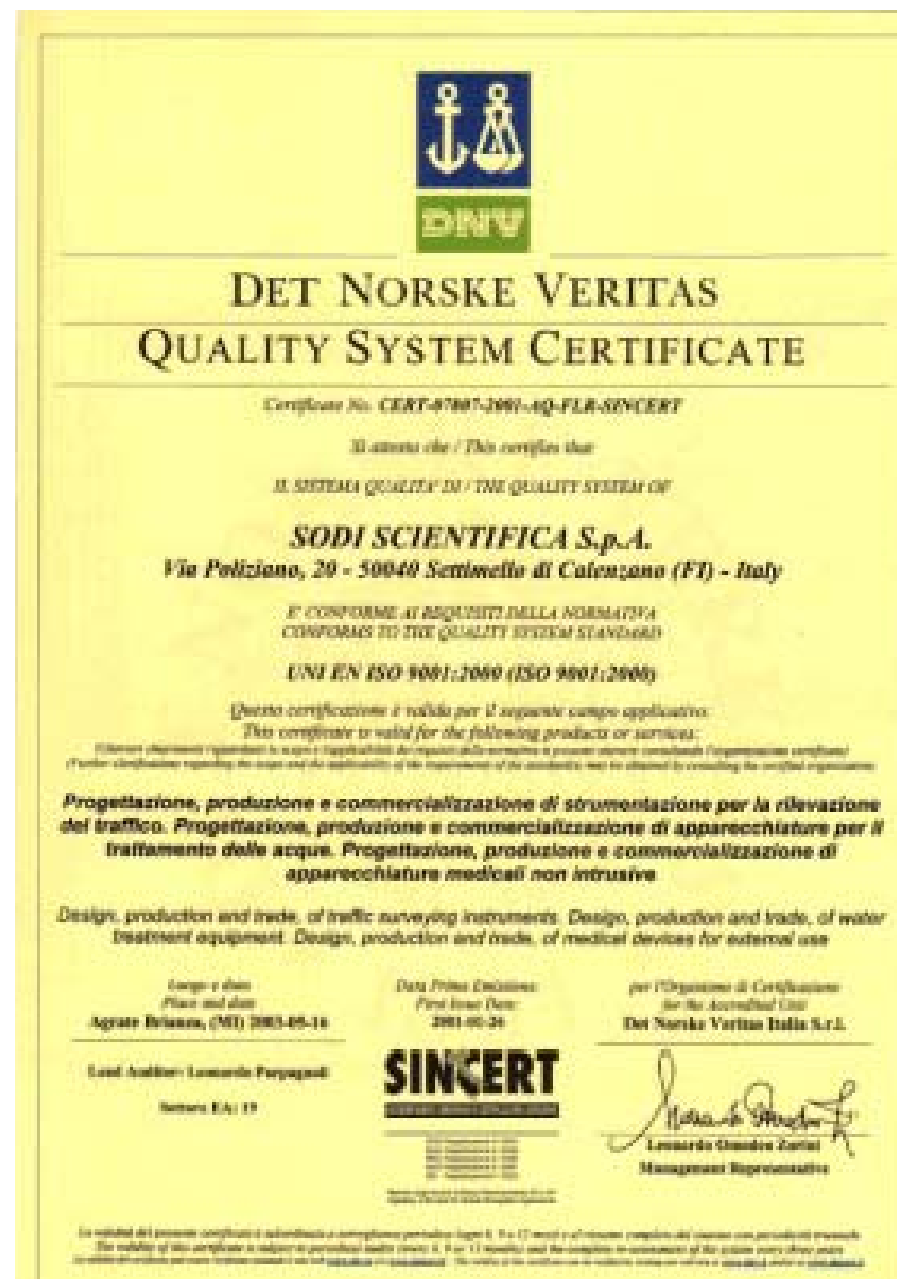


The company is located in Calenzano, the main industrial area of Florence, Italy

The production plant



# Certification



TEMPI DURI PER GLI AUTOMOBILISTI INDISCIPLINATI

# Provato alle Cascine misuratore di velocità

Si preparano tempi duri per gli automobilisti indisciplinati; soprattutto per tutti coloro che scambiano i viali di circonvallazione ed ogni altra strada per la pista di Indianapolis. La ditta di costruzioni elettromeccaniche Sodi, ha infatti, approntato un misuratore di velocità elettronico, che costituirà l'incubo di molti.

Lo strumento, che è costato tre anni di studio, è stato presentato ieri per la prima volta ai dirigenti della repartizione traffico del comune e al comandante dei vigili urbani colonnello Aldo Giannetti. Sul viale Kennedy, alle Cascine, lo strumento è stato anche messo in pratica. I risultati sono stati sorprendenti.

L'apparato è costituito da due cavi stesi sulla carreggiata, alla distanza di un metro, collegati al misuratore di velocità denominato « Auto-velox ».

Il misuratore, viene predisposto su una velocità programmata, che, nel caso fosse impiegato in città, sarebbe di cinquanta chilometri all'ora. Quando l'auto passa sui cavi, l'urto produce degli impulsi che mettono in funzione il misuratore: questo fornisce la misura del tempo di passaggio dell'auto sui due cavi in decimillesimi di secondo. Mediante un calcolo, già pronto su una tabella, il tempo di passaggio viene tradotto in chilometri all'ora. Se la velocità dell'auto è inferiore a quella programmata, il misuratore si limita a segnalarne la velocità; se la velocità è, invece, superiore a quella programmata, lo strumento mette in funzione un segnale acustico o luminoso che avverte la pattuglia di servizio dell'infrazione.



L'ultimo radar - tachimetro



The first prototype of Autovelox was developed in 1964 and used the “rubber Tube” technology. The output of the unit had to be manually calculated to obtain the speed of the Vehicle

The first “commercial” unit was presented to Italian traffic Police in 1966.

Many newspapers of the time dedicated articles to this “innovative” instrument!

# Some of our Worldwide applications



# SPAIN - DGT and Guardia Civil



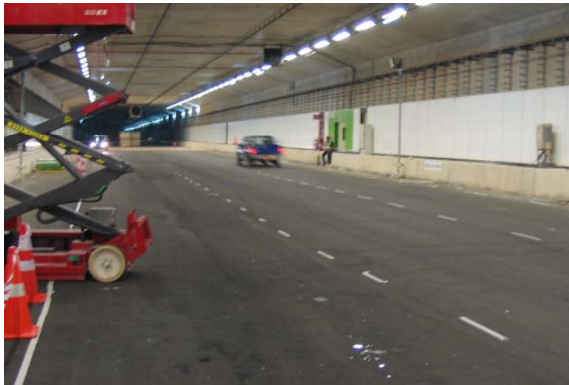
City of Madrid  
Spain



Autopista M40

# SINGAPORE

## KPE Tunnel



# FRANCE/ITALY

## MONT BLANC TUNNEL



The tunnel entrance during the  
2001 renovation works



# SPAIN

## DGT and Guardia Civil



Presentation to the President of  
the Spanish Government, José Luis  
Rodríguez Zapatero

# CANADA



City of  
Grande Prairie

ALBERTA



# COLOMBIA



Presentation to Bogotá  
Traffic Police



# INDONESIA



Installation of fixed sites  
in Jakarta



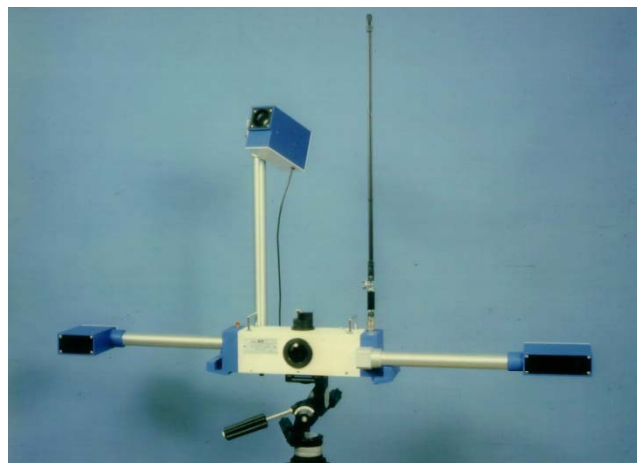
# ITALY - Over 3000 Municipalities



# Autovelox Evolution



**AUTOVELOX 101 (1974)**



# Autovelox 105SE

Digital Speed Enforcement equipment

Versatility in Speed Enforcement

Three configurations ...

One unique solution! **Autovelox 105**

**Tripod**



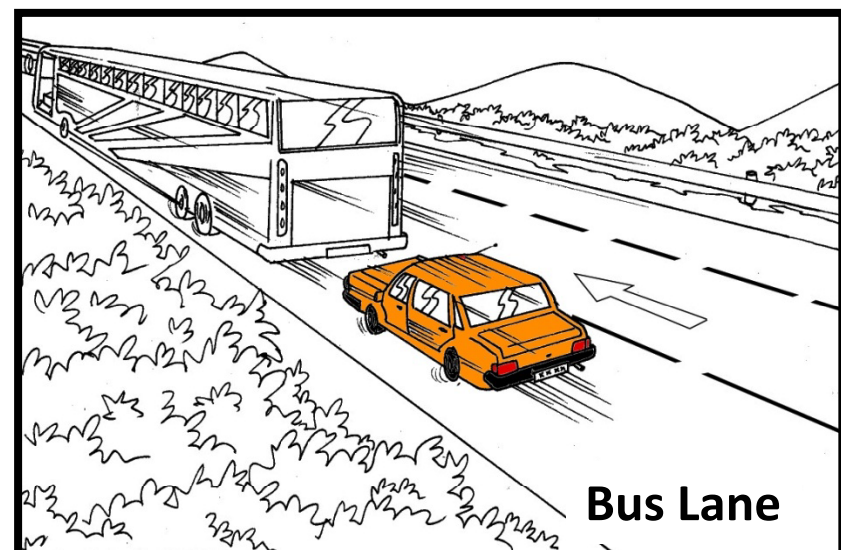
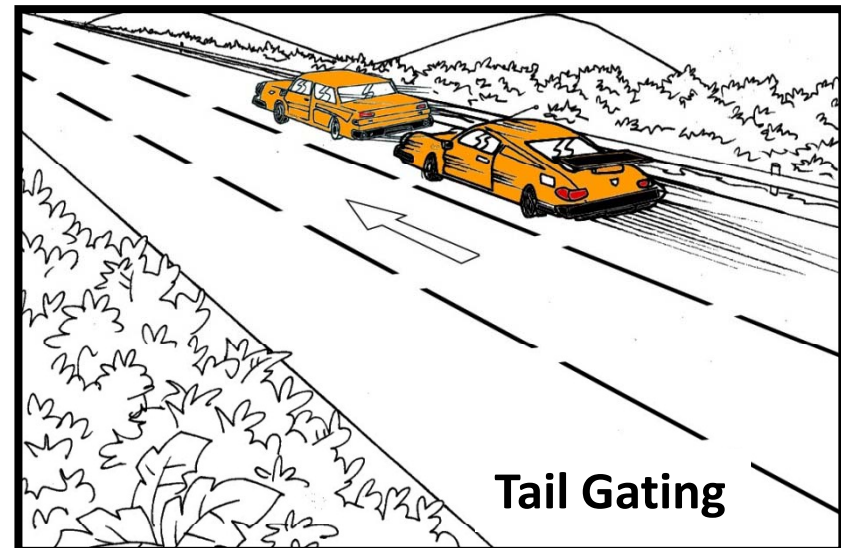
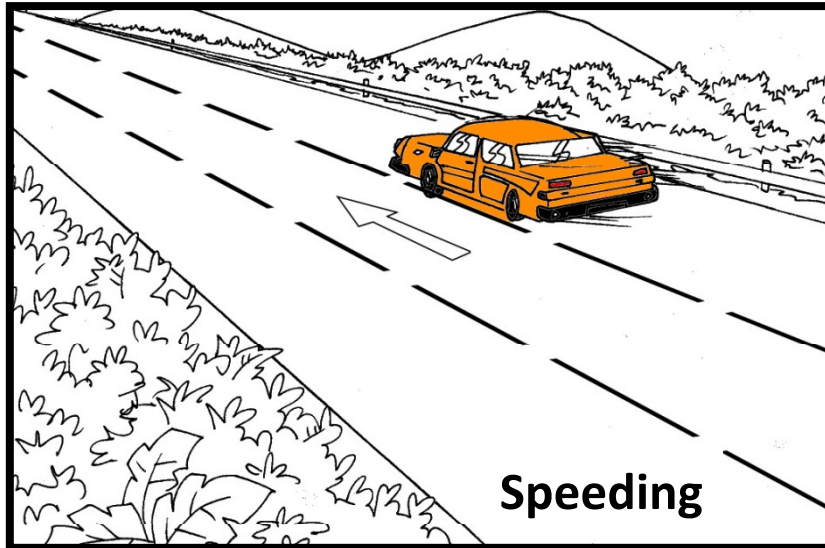
**Stationary Vehicle**



**Road box**



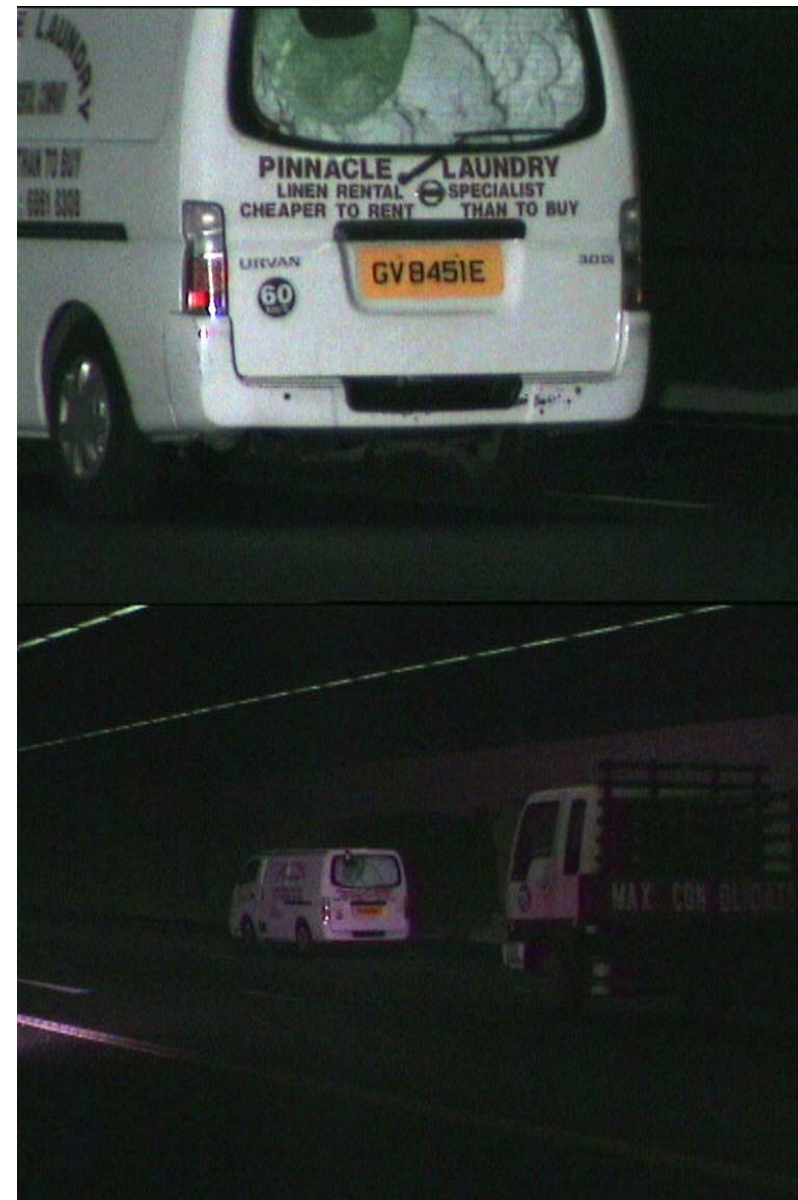
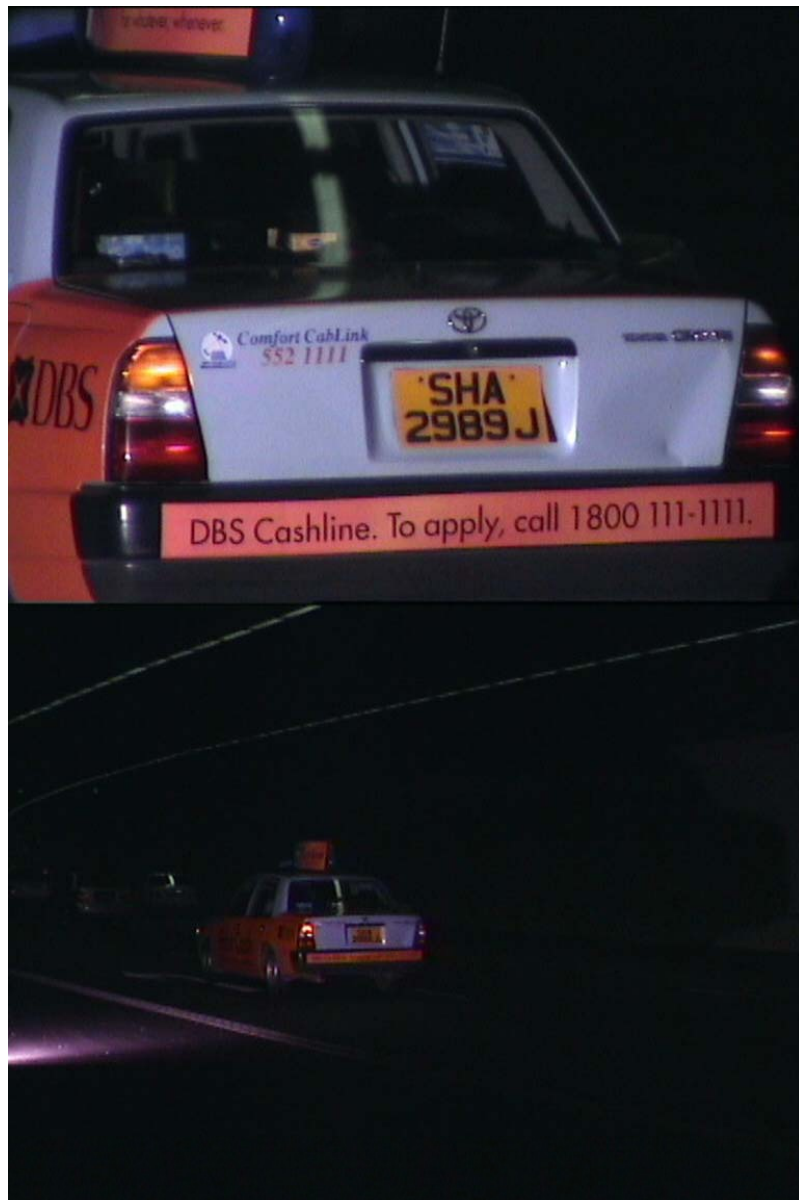
# Multipurpose Enforcement



# Pictures Samples







# Printout example

## Autovelox 105 SE

Foto 1



Dia:29-apr-2011 Hora:9.59.31 Velocidad:km/h 51  
N. foto:116 N. Autovelox:935448  
Localidad:CALLE 26 Operador:NICK

Copyright Sodi Scientifica spa - Printed with Backvelox 105 SE

|                            |                       |
|----------------------------|-----------------------|
| Día                        | 29-apr-2011           |
| Hora                       | 9.59.31               |
| Velocidad                  | km/h 51               |
| Límite carretera           | km/h 30               |
| Localidad                  | CALLE 26              |
| Operador                   | NICK                  |
| Matrícula                  | BTM63                 |
| N. Autovelox               | 935448                |
| N. foto                    | 116                   |
| Tipo Multa                 | Velocidad             |
| Integridad foto            | Verificación aceptada |
| Separación borde carretera | 6,59                  |
| GAP (m)                    | 109                   |
| GAP (ms)                   | 9399                  |
| Longitud                   | 1                     |



# Printout example

## Autovelox 105 SE

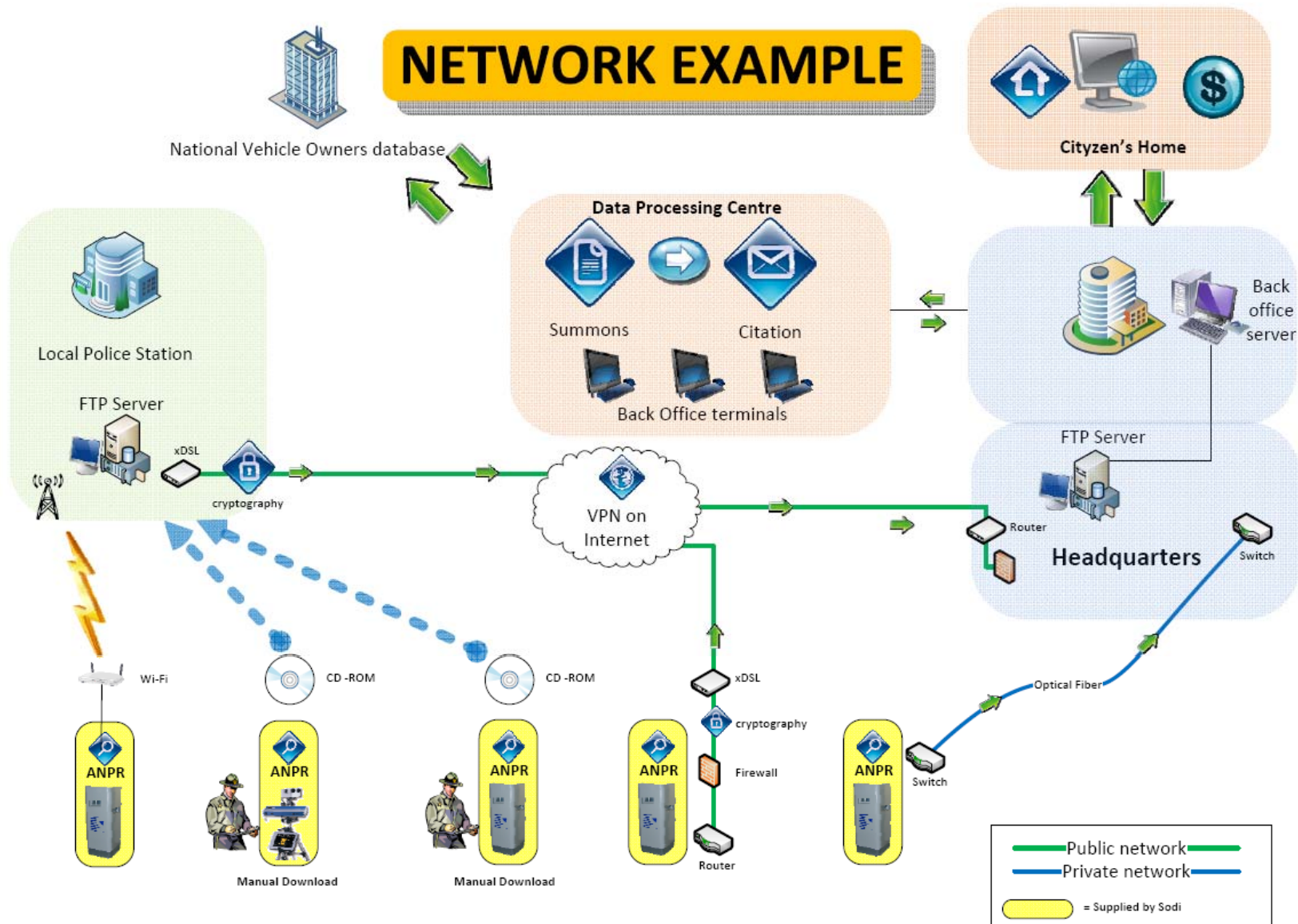
Foto 1



|                            |                       |
|----------------------------|-----------------------|
| Dia                        | 28-lug-2010           |
| Hora                       | 23.15.16              |
| Velocidad                  | km/h 186              |
| Limite carretera           | km/h 120              |
| Localidad                  | ABU DHABI 673         |
| Operador                   | COSIMO37368           |
| Matricula                  | 5-92925               |
| N. Autovelox               | 934455                |
| N. foto                    | 131                   |
| Tipo Multa                 | Velocidad             |
| Integridad foto            | Verificación aceptada |
| Separación borde carretera | 16,57                 |
| GAP (m)                    | 165                   |
| GAP (ms)                   | 5900                  |
| Longitud                   | 5                     |

Copyright Sodi Scientifica spa - Printed with Backvelox 105 SE





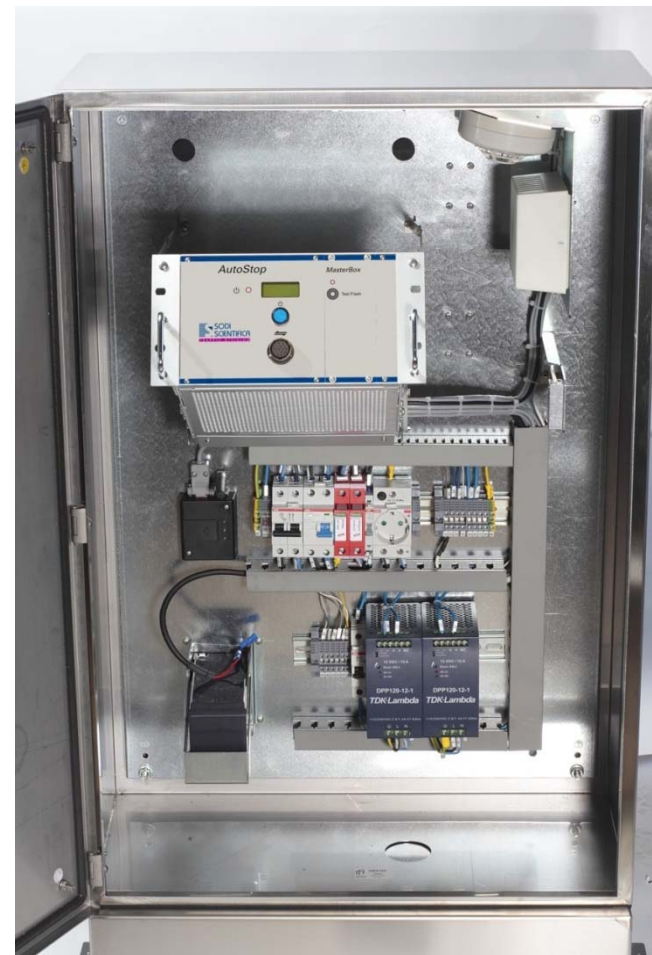
# Autostop HD

Red-Light and speed enforcement camera

## The Pole



## Road Side Box



Red Light and speed enforcement camera:

Multiple functions

Enforcement of the following violations:

- **Red light running**
- **Excess of speed**
- **improper use of lane in proximity of a stop light**

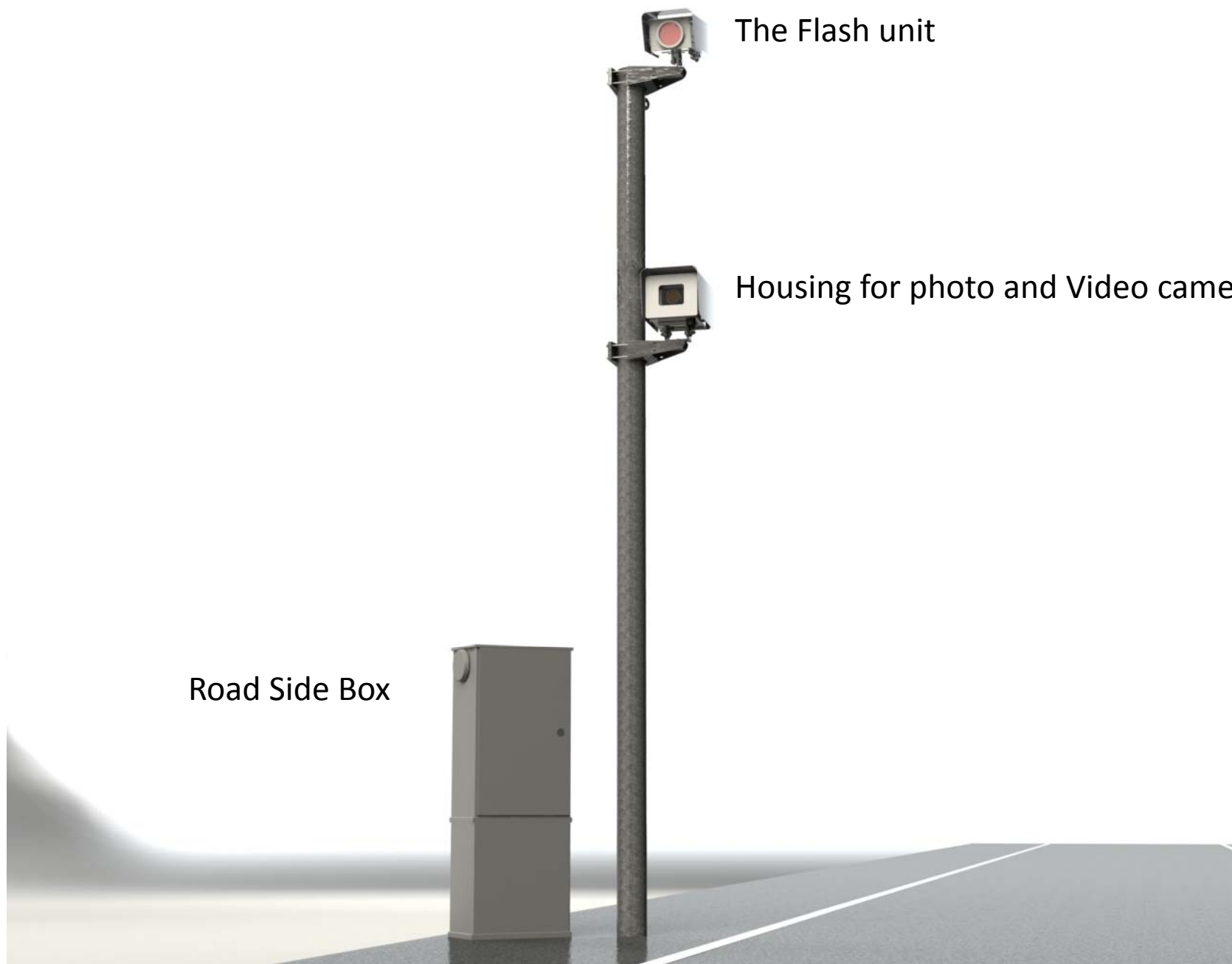
The system is composed by an electronic unit for processing and control, photo camera, video camera and a flash for night operations: The system is also available with an alarm system.

Two **different sensors** are available, **inductive loops** installed in the road or non-intrusive **laser sensors** installed in a separate pole

The **Autostop HD**, does not interfere with the traffic light control unit. The traffic light status is gathered through a fiber optic system

**Autostop HD** is available with both color camera and dimlight flash, or with camera and infrared Flash, in the latter case, the photos are in B/W.

In addition to remote data transmission, the system allows easy local download through an automated procedure storing data in encrypted format on a special USB key, so as to enable it by support staff

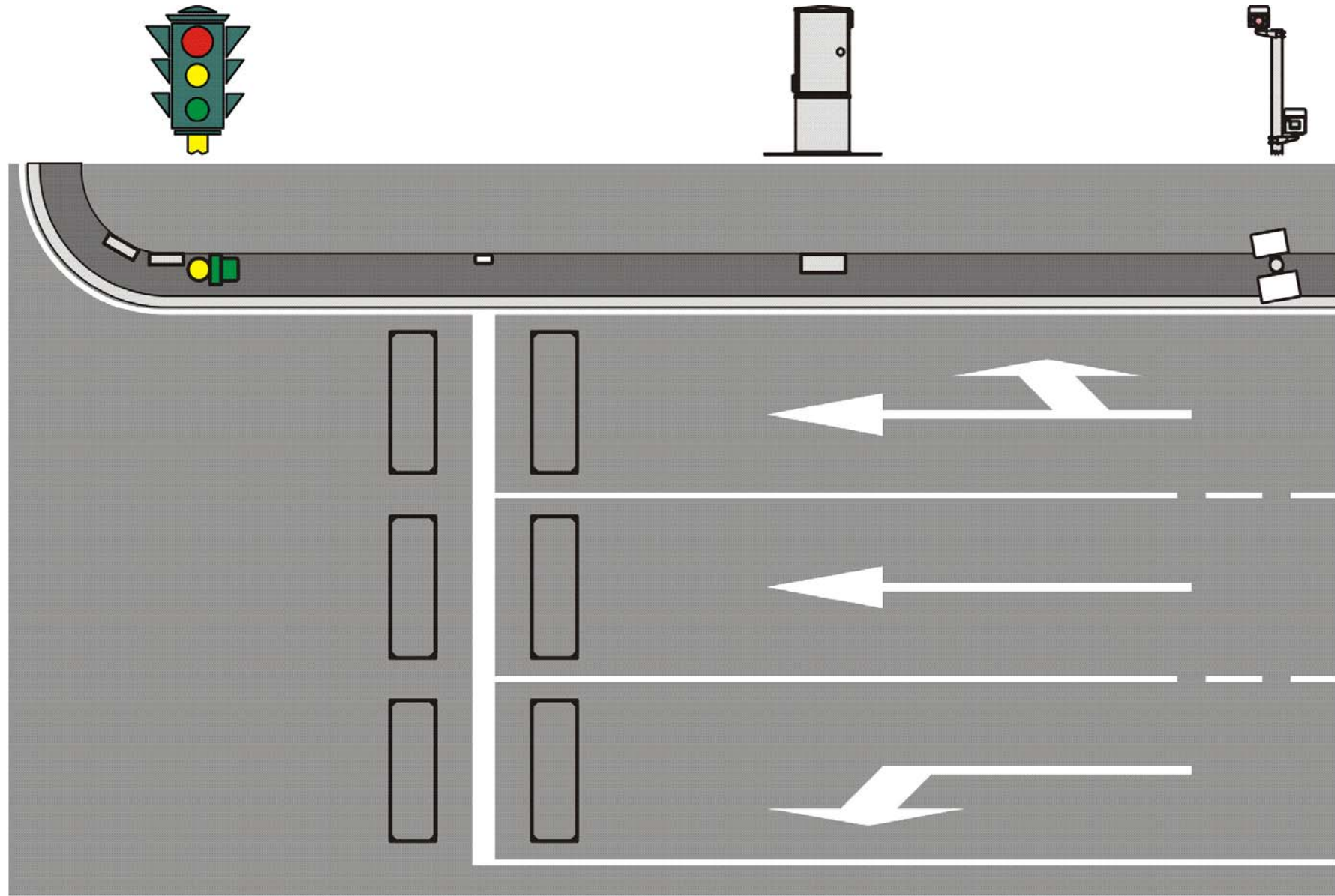


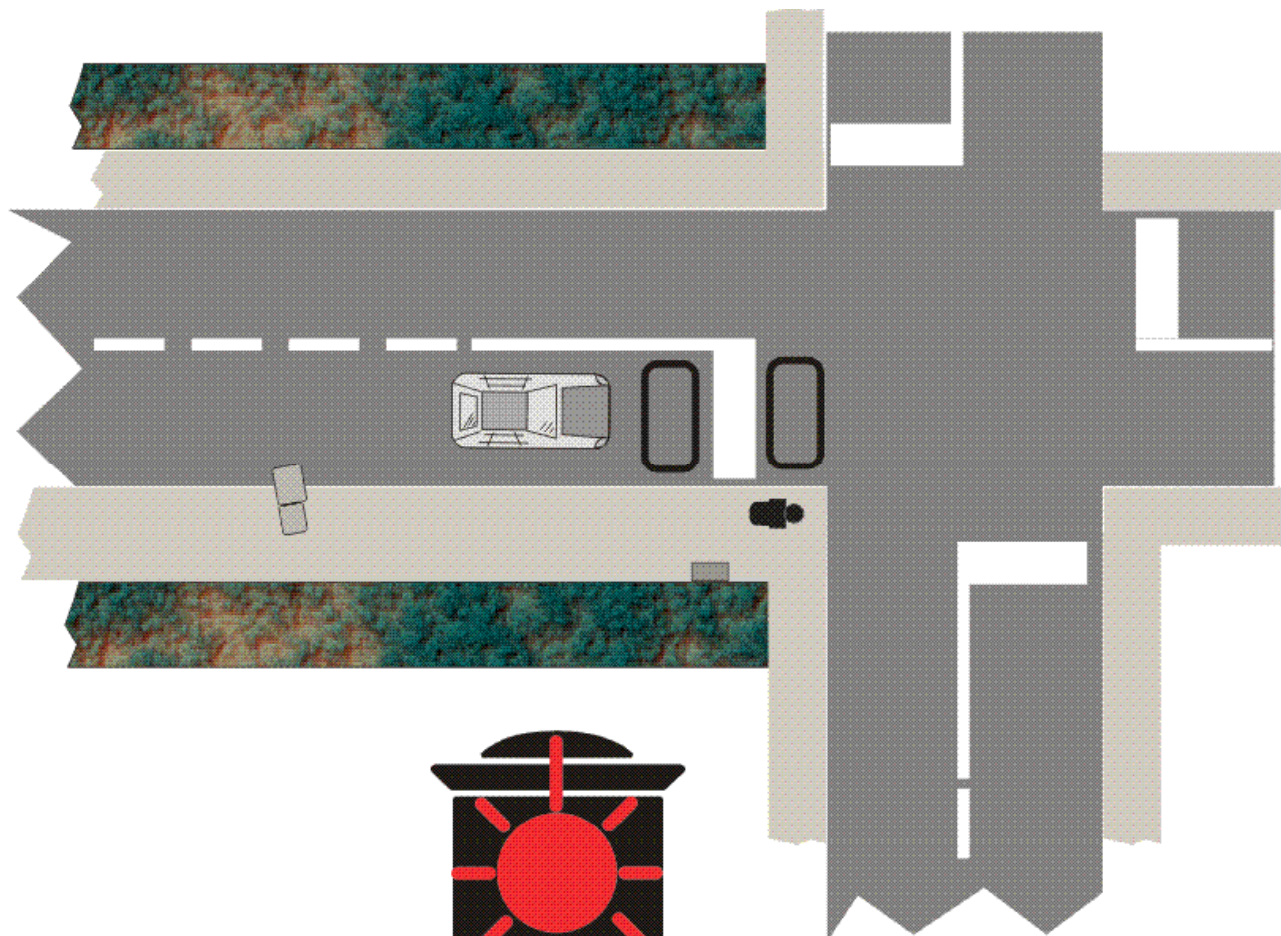
# Main Features

- **Detection of Speed by Laser or Loops**
- **Ease of Use and Maintenance**
- **High resolution Digital pictures (up to 15 megapixel)**
- **Visualization of operations on Tablet PC**
- **IR or visible light Flash**
- **Optional digital video camera**
- **Non intrusive connection to traffic light**
- **Automatic local or remote download of data**

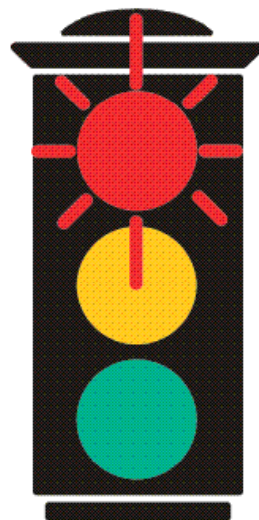
- **Data recovery**
- **Automatic clock adjustment through GPS**
- **Photo and Video watermarking**
- **Multiple detection on different lanes**
- **Programming the system operating times**
- **Built-in Automatic Number plate recognition System**
- **Automatic signalling of malfunctions or vandalism**
- **Low visual impact; operates on both sides of the road**

# Unit's layout on the road

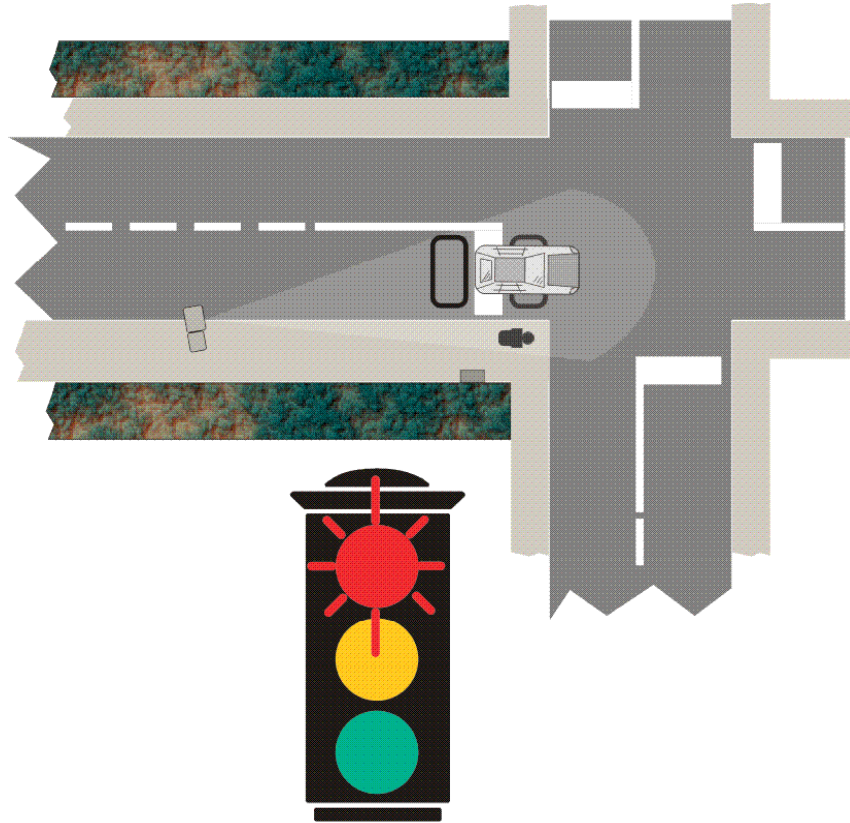




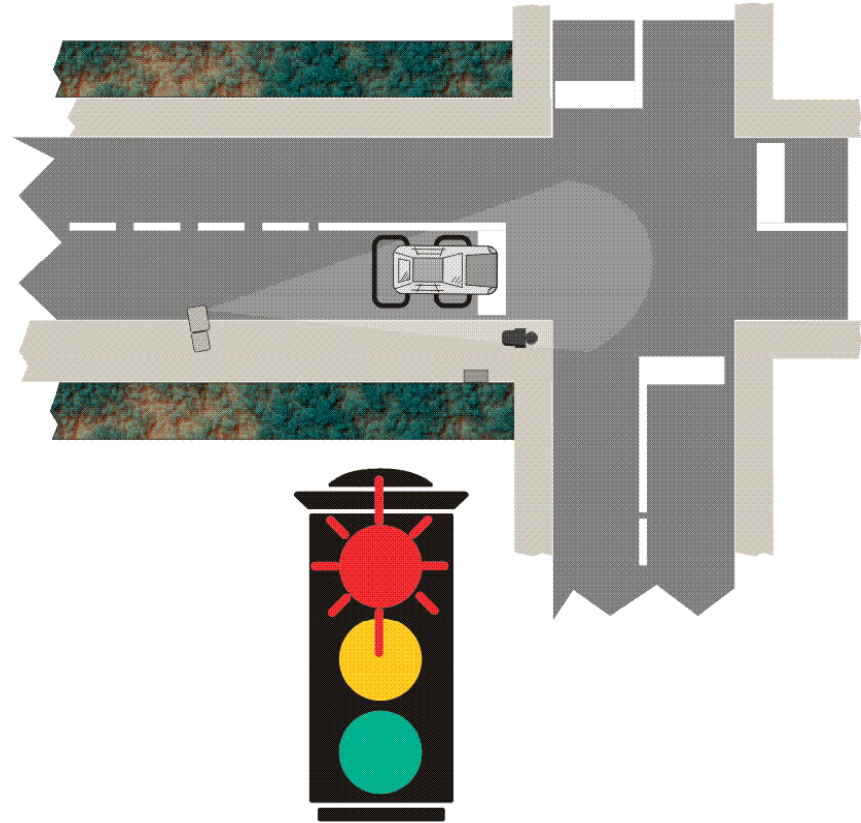
**Vehicle approaching**



# First Photo

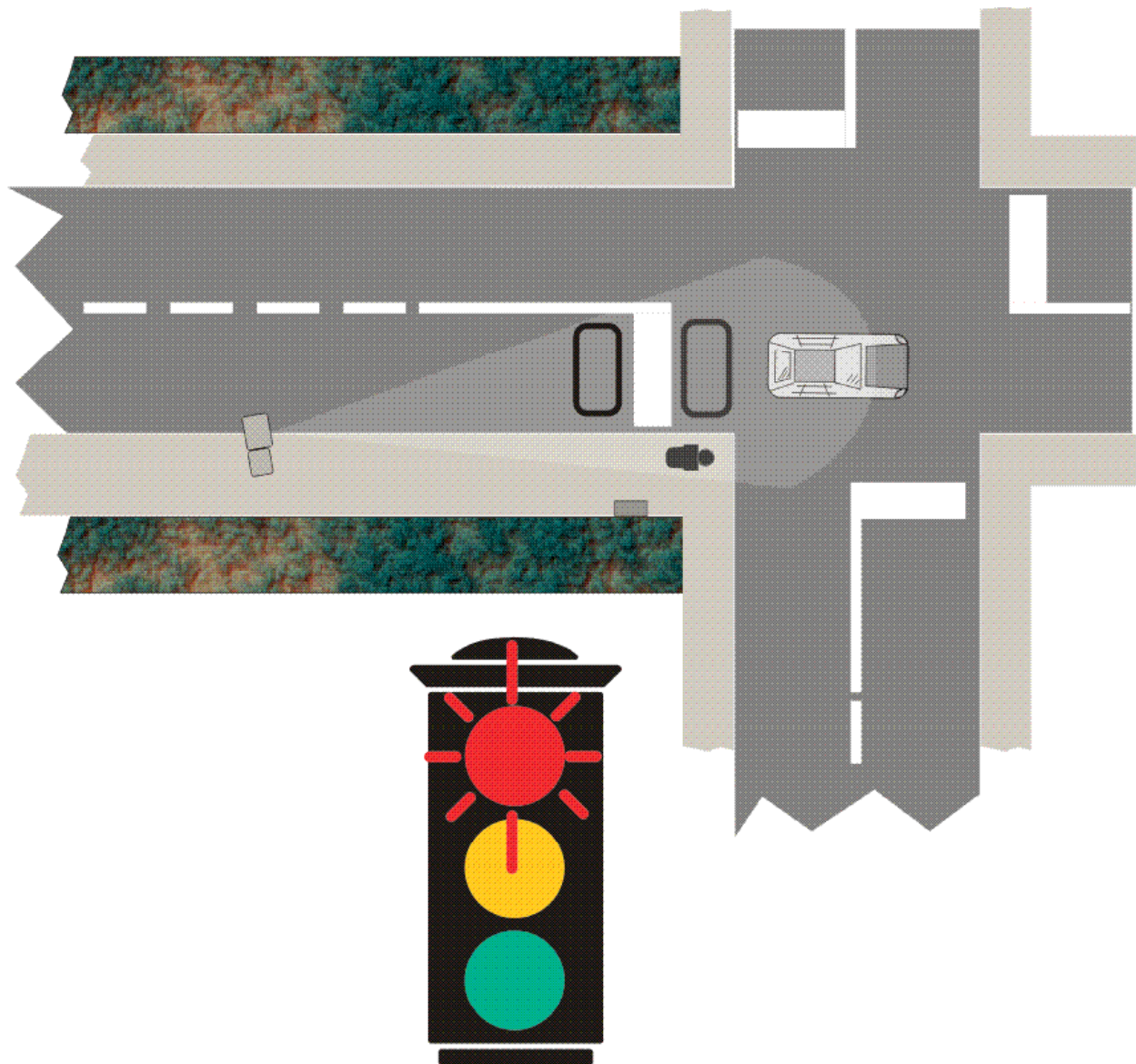


European Version



North American Version

# Second Photo





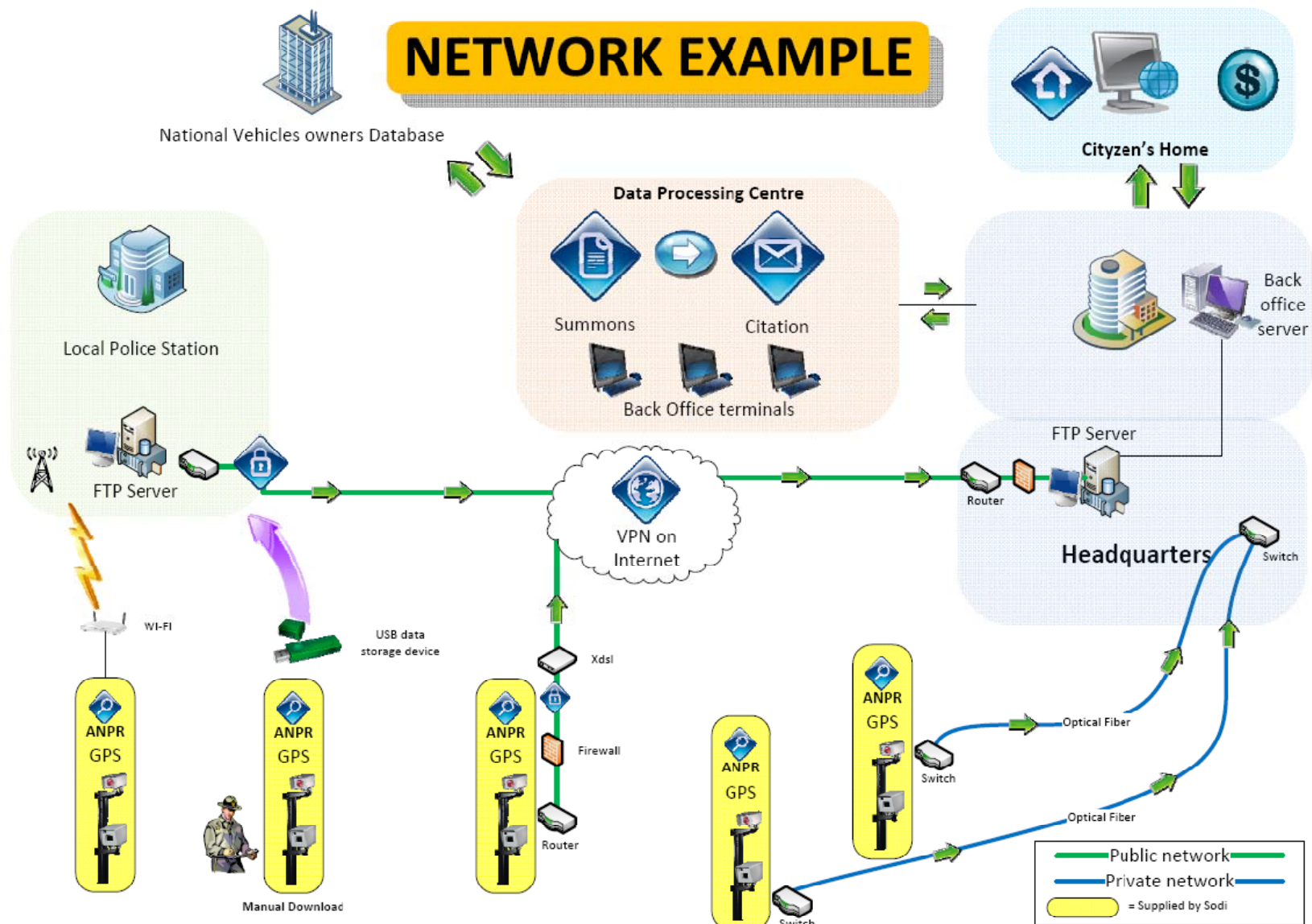
First Photo



Close up of license plate

Second Photo



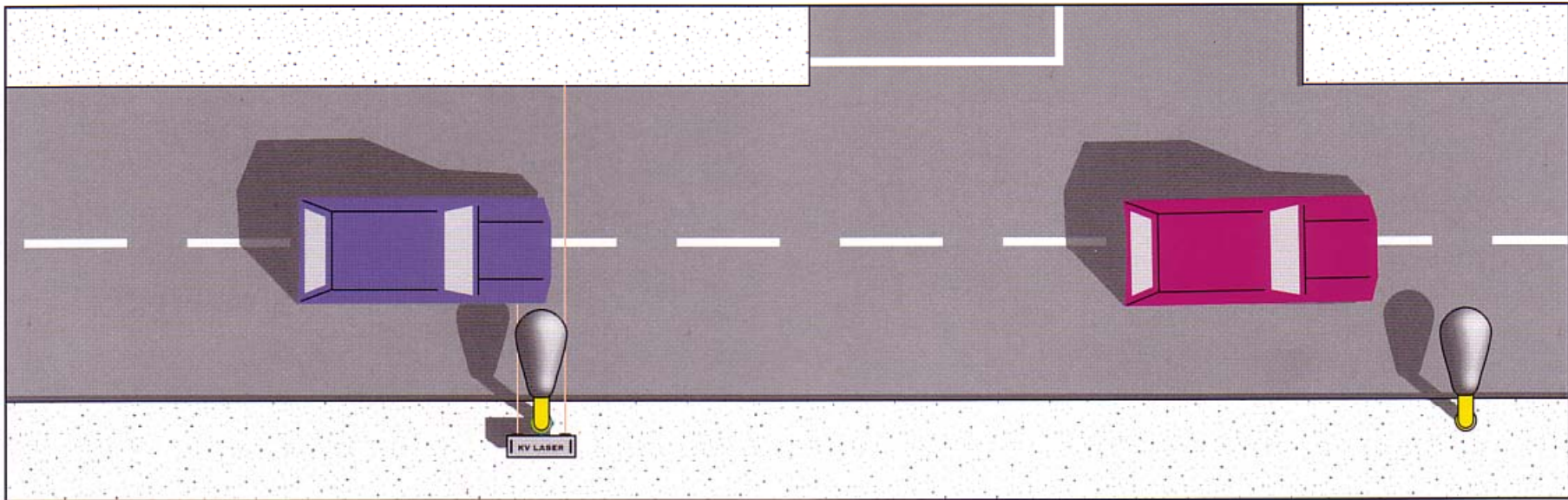


# KV Laser Traffic Counter

**Statistic Vehicle Detector**

# OPERATION

KV Laser works on a time distance basis. The device calculates the speed and length of a vehicle from the time taken to break the two beams and how long the beams are disturbed for. These calculations are then stored in memory along with time and date information. At the conclusion of the survey the information is then easily downloaded, via supplied software, for analysis within a standard spreadsheet software package.



# SPECIAL FEATURES

- **NON INTRUSIVE:** KV Laser is a stand alone unit which does not require external detectors (loops). This eliminates the need for disruptive road works normally associated with the installation of other types of traffic monitoring systems.
- **DIGITAL:** KV Laser is at the leading edge of technology. The data is easily exported directly into any standard spreadsheet software package for analysis.
- **PORTABLE:** Thanks to its dimensions, weight and to the fact it can be powered from a battery pack, Kv Laser can easily be transferred from one location to another without traffic disruption.



# VERSIONS

KV Laseris available in two configurations, roadside and vehicle/tripod mounted, even though the equipment can be easily adapted between the two.



**Roadside Version:** This system consists of the laser detection module, data download software and a stainless steel minibox, supplied with fixings for easy installation on any roadside pole. The box is IP55 environmentally sealed with vandal resistant portholes, coated to allow easy removal of spray paint. Power can be internally supplied via an optional battery pack, or externally from a nearby power source..

**Vehicle/Tripod Mount Version:** This version includes the laser detection module, data download software, battery pack, window mount and transport case. The system can be mounted as shown below or on a tripod for short term surveys. Both systems are easily installed and do not need specialist skills to operate.



# Thank You for Your Attention