ESS - Easy Survey System
VIDEO AND LASER MMS SYSTEM
ROAD EQUIPMENT DETECTION

The purpose of the service package offered by the ESS system (Easy Survey System) is to grant the users an efficient and quick acquisition of the features of road infrastructures and of their equipment. Reduced invasiveness, modularity and phased development are the main features of the system.
ESS services are developed and offered in partnership with:

LTS - Land Technology and Services
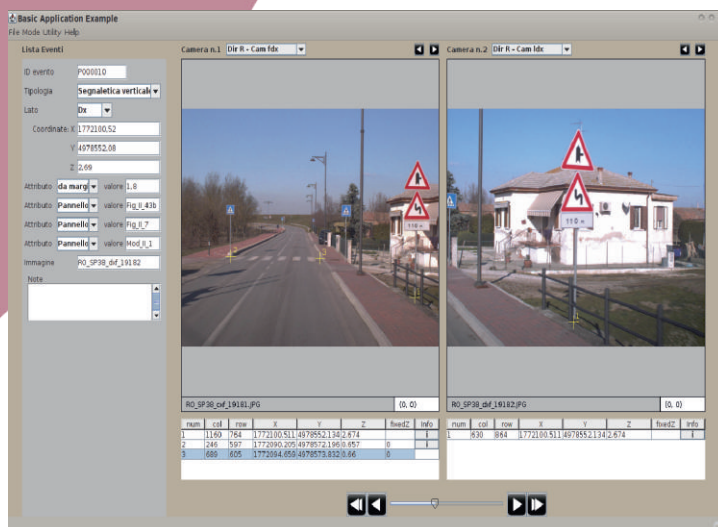
Composition of the system:

- **Video capture device module** – 4 IDS digital cameras (ris. 1600x1200), LAN Gigabit connection, optics fixed focus 4,8 or 6 mm, Fanless PC Intel Quad core i7, HDD SSD 256 Gbyte;

- **Laser scanner acquisition module** – Laserscanner Riegl VZ400, speed 125.000 pits/sec., range 400 m;

- **Positioning and navigation module** – main GPS Geomax ZPG800, Leica 500 or 1200 with RTK, compatible with possible IMU platform, in function of the required accuracies, secondary GPS Garmin 5 Hz, odometer 100/400 pulses/rev;

- **Video player software** – Easy Video Survey, given with free license to the system users.

- **Scanner display software** – ReView, software offered by the distributor with freeware license for point cloud process;

- **Post processing software for video and laser scans** – Easy Survey Tools, given with free license to the system users.

Products supplied:

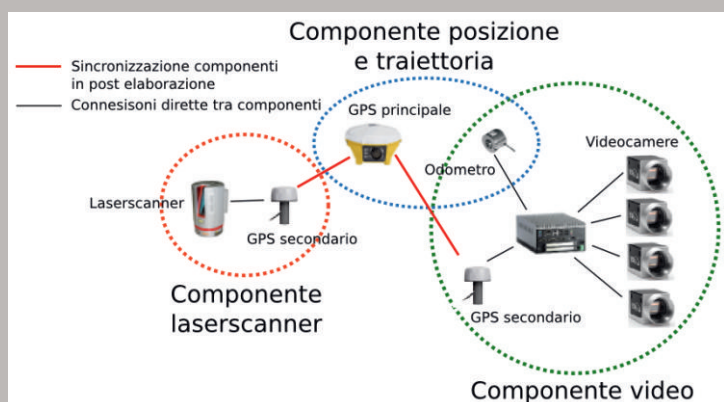- **Mpg video and laser scans txt format** for processing by the customer, or with the Easy Video Survey software or Easy Survey Tools use;

- **Road network graph** made on the basis of the vehicle navigation data, optionally integrated with the static surveys or using other cartographic bases;

- **Data bank** describing **dimensional or quality parameters of roads and their equipment**, built on

the basis of the information captured from video or laserscanner;

- **Webgis services** to represent, to manage and to query about the information acquired, accessible by user that can be **protected by password.**

Related packages:
DBM - Database Build and Management
MRN - Models of Road Network
RNM - Road Network Manitenance

TPI Ingegneria srl
Civil Engineering, Transportation Engineering and I.T. Systems
via XXXI Ottobre, 23 - 32032 Feltre (BL)
Tel/Fax: + 39 0439 190 1681 email: info@tpinet.it