

Automatic Number Plate Recognition (ANPR) provides a powerful tool that can enhance any camera-based system. ProVida ANPR is our proven, high performance system for monitoring traffic from a moving vehicle, or as a static deployment.

The modularity of ProVida ANPR permits users to select:

- From a range of computers – approved vehicle systems, rapid deployment and laptop
- A mix-and-match of cameras – with multiple video inputs including Infrared (IR) cameras
- Displays for a range of vehicles – including touch-screen input and with flush fitting installations

Recognition of a number plate, more correctly known as a Vehicle Registration Mark (VRM), is only a small part of what the full ProVida ANPR System offers. We believe that it is our unique combination of recognition, database manipulation, graphical display and rugged vehicle platforms that make it the best system of its kind.

Recognition at the Front End

Utilising the best-of-breed recognition software, the heart of the ProVida ANPR system constantly monitors each of its video inputs to locate a VRM. Once seen, it converts the image into characters, and so creates the sequence of letters and numbers that can be analysed, recorded as an image and logged to a database.

ProVida ANPR is an extra pair of intelligent and ever vigilant eyes. IR cameras are an option for all our systems and provide the best return on the investment made by ensuring 24-hour operation. They provide both daytime and night-time image capture of VRMs with the ability for other cameras to simultaneously capture colour surveillance pictures.

Recognition happens extremely quickly – up to 50 times per second depending on camera selection – with the individual frames from every connected camera being scanned to extract a VRM and report it. Fast moving traffic is captured as effortlessly as slower traffic so whether the ProVida ANPR system is travelling or static by the side of a motorway the system is constantly vigilant and active.

Lookup Databases that Provide Intelligence

Without databases, the system is just operating as a data recorder, logging all passing vehicles. However, when lookup databases are added to the system, it expands into a truly powerful policing tool with a wide range of features.

The ProVida ANPR systems are supplied with a “back office” application to make the management of databases, in a fleet of systems, as simple as possible. The system fully recognises the need for prioritising the data, limiting access to approved users and importing additional information with ease, accuracy and speed. Even the most basic sets of data can be imported into the system and used alongside standard sets of target vehicles and driver information.

The ProVida ANPR system is fully compatible with the UK’s Spectrum Back Office, and seamlessly integrates alongside this nationally standard system. The databases are held on the system’s mass storage in encrypted form, but can be updated whilst operationally live via secure mobile communications such as Tetra, GSM/GPRS or even Wireless LAN. Users can also add database information manually.

Analysis and Logging of Passing Traffic

With databases loaded and cameras pointing at passing vehicles, the system now comes into its own. Great care has been taken to design the user interface of the ProVida ANPR system so that it is simple, intuitive and legible. The user is presented with information on a 'need to know' basis avoiding distractions that could compromise health and safety or mask the real information.

Every recognised VRM is checked against all loaded databases in a fraction of a second. For those vehicles that are not in the databases, the system can be configured to either discard or log the information. Where a match between the database and a VRM is made, the user is alerted both audibly and through the system display. The system will present all the information available in an intelligent format so that the user can make a quick, informed decision on what action is required and act appropriately.

Matching vehicles, often referred to as 'hits', are stored into a database with all the associated source information including video images, copies of the database entries that matched time, date and, where fitted, location plus other optional records.

ProVida ANPR is designed to act intelligently when multiple matches are found by using priorities that have been set in the back office system. The user can browse through these matches as and when operational circumstances permit, but will always get access to the highest priority data instantly. A Police car travelling with traffic would have been alerted to a database hit before the suspect has even overtaken – often still being visible in the driver's door mirror. This speed of information makes decision-making and action far quicker and safer.

The modularity of ProVida ANPR permits users to select:

- The numbers of cameras required to operate simultaneously
- Whether you wish to have day/night operation
- The need to operate when travelling in the vehicle or only when static
- The ability to move between multiple vehicles easily and at low cost
- The level of integration with other compatible systems such as:
 - ProVida Video Evidence
 - Tracker stolen vehicle equipment

The range of computing equipment on offer with ProVida ANPR includes:

- Vehicle mounted Mobile Data Terminals (MDTs) with remote touch-screen displays
- Flight-case MDTs with integrated touch-screen displays
- Ruggedised laptop computer based systems

Petards Limited

Petards House
Windmill Business Village
Brooklands Close
Sunbury on Thames
Middlesex
United Kingdom
TW16 7DY

☎ +44 (0)1932 788 288

☎ +44 (0)1932 788 322

✉ sales@petards.com