

Shadow

Roadside ANPR processor



Applications

- » Lorry Road User Charging (LRUC)
- » Congestion Charging
- » Surveillance
- » Traffic Surveys
- » Journey Time Analysis (JTA)
- » Bus lane enforcement
- » Red light enforcement

Rugged roadside ANPR processor

Talon Shadow is a rugged roadside ANPR processor unit designed to withstand extreme environmental conditions and execute 'on the spot' roadside processing of number plates. The system comprises of a shoe box sized computer running Talon SP ANPR software and a windows operating system. It is designed to fit inside existing road side furniture such as street side service cabinets.

The key advantage of the Shadow system is the reduced installation and maintenance costs, by eliminating the need to install and maintain expensive fibre optic or wireless transmission media to a central processing site and send raw video to an 'instation' site. The transmission of good quality live video can only be achieved with certain technologies that are costly to install and maintain.

The Shadow system camera inputs are processed by the ANPR software at the roadside and therefore only processed data such as number plate patch information and JPEG images are sent to the central site via GSM / GPRS, WiFi, dedicated fibre or BT circuits for example. The packet size of each individual read is minimal meaning that the cost to send ANPR data and images is very cost effective.

Key Features

Rugged 'zero' maintenance construction: Manufactured from heavy duty aluminium with one cooling fan, minimising the number of moving parts and maintenance requirements. Large heat sinks protect the system from temperature extremes. Engineered for extreme conditions – designed and tested to operate in extreme heat (+40C). Large heat sinks protect the system from temperature extremes. Key internal parts are protected using dampers, preventing vibration damage from passing vehicles.

Small in size, big in power: The size of the shadow unit (195mm x 107mm x 268mm) offers flexibility in deployment combined with built on mounting brackets. Fitted with a Pentium M processor each shadow unit can process multiple ANPR cameras. Well connected – the unit comes with a host of interfaces and connections.

Alarm monitoring/reporting: Software monitoring to detect internal failure e.g. camera/video failure, over temperature, CPU temperature and recognition degradation. External alarm monitoring (via hardware interface) e.g Tamper, mains failure, UPS shut down, cabinet temperature, comms failure via internal GSM/GPRS modem

Secure: Message queuing software with built in encryption and guaranteed message delivery. Image signing with authentication signature prevents evidence tampering. Block Cipher (RC2, DES, 3DES, AES and stream cipher (RC4) algorithms are supported.

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Specifications

- » CPU: Intel Core 2 Duo M T2500, 2.0 GHz, 667 MHz, FSB, 2MB cache
- » 2GB RAM
- » Fujitsu 2.5" rugged extended duty 60 GB SATA HDD, 8MB cache, 5400 RPM Hard Disk Drive (Larger capacities available)
- » 2 PCI card Expansion (1 x PCI card 240mm and 1 x PCI card 160mm with HDD installed, or 240mm without 2.5" HDD installed)
- » One 6-pin Mini-DIN for PS/2 Keyboard/Mouse
- » 6 USB 2.0 Ports available, 1 Bi-Directional EPP/ECPParallel Port, 2 Serial RS 232 Ports
- » 2 x RJ45 10/100/1000 Ethernet LAN
- » Dimensions 195mm x 107mm x 268mm, weight 4.7KG
- » Award System BIOS
- » COM Ports - supports RS 232/422/485, selectable by switch
- » Constructed From Heavy Duty Aluminium
- » Acoustic Noise - Near Silent Operation



Due to a policy of continued product development, NDI Recognition Systems Ltd reserves the right to alter or amend any published specifications without notice.

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