### AUTOMATIC ACCESS CONTROL SYSTEM

#### FEATURES

- Access control based on the license plate eliminates requirement for guards or entry cards.
- Transaction Accuracy > 98% on average.
- Image storage and retrieval for remote manual validation and access history.
- Strobe IR camera system for 24 hour operation without visible lighting.
- Automatic detection of vehicle using license plate recognition eliminates need for external trigger, e.g. loops.
- Real time adaptive camera control allows reliable 24/7 operations for all lighting/seasonal variations.
- Stores up to 10,000 transactions in the event of loss of server communications.
- Ruggedized for anti-vandalism and anti-theft of equipment.
- Back office database/client software provided for report generation and database maintenance.

#### BENEFITS

- Highly reliable access control and inventory system.
- Low operational cost
- Eliminate need for entry cards
- Provide historical knowledge of entry.
- Eliminate problems with lost/stolen cards
- Central database for multiple entry/exit locations.
- Low power requirements.
- Simple and easy to install.
- Year round performance with no tuning required.
- Can interface to fingerprint recognition systems or smart card systems for additional security

#### USES

- Private Parking Lots
- Restricted Access Facilities
- Hotels
**Single Lane Entry Control**

Transport Data Systems Access Control is a stand-alone, single-lane, license plate based vehicle access control system. It is designed to control and monitor vehicle access into a controlled parking facility.

As a vehicle approaches the entry gate, its license plate is read and compared to a list of valid license plates for that facility. If a matching plate (authorized) is found, the gate is opened to grant access to the vehicle. If a license plate cannot be read, or if no matching plate is found in the database (including authorized license plates and temporary guests), the system will signal an alarm to a remote location where an authorized person may manually open the gate.

An alarm can be triggered when a transaction remains incomplete. All transaction information, including images and license plates, are stored in the local database for later review. Exit from the parking facility is via a one-way exit barrier.

Authorized users can access and modify the database using a PC connected to the admittance control device via a direct Ethernet connection, an RS-422 connection or an internet connection. A second camera and gate can be added to the system for control of two adjacent entry lanes.

**Illumination**

The TDS parking lot system is supplied with low power, high intensity strobed LED illumination in the near IR bands. The use of a LED based illuminator provides a low power highly reliable source of directed illumination. TDS developed these illuminators specifically for use with their image capture systems.

**Triggering**

The camera system has a built in triggering capability to sense the presence of the vehicle and trigger the image capture process. This eliminates the need for an external trigger sensor.

**Multiple Entry/Exit Lanes**

In order to accommodate multiple entry and/or exit lanes, authorized vehicle numbers are stored in the master control system database on a central server. Authorized users can access and modify the master control system database using a PC client application via an Ethernet connection. The system can also transmit the recognized plate number, the vehicle image and the entry/exit time to a master control system.

**Central Processor**

A central processor controls the operation of the system. It will accommodate multiple entry and exit lanes. A database can be implemented for hot list and transaction storage accessible via a web page interface.

**Multiple Facilities**

The system is very scalable. Once a centralized server has been implemented, additional parking facilities can be easily added to the system.

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