TRAFFIC TECH
SmartANPR
SOLUTION

TRAFFIC TECH
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AUDIO / VISUAL ALARM
OVERVIEW CAMERA
ANPR CAMERA WITH BUILT IN
IR ILLUMINATOR

← EXIT

INDUCTION LOOP
CABINET
LOOP DETECTOR
POWER SUPPLY
I/O DEVICE
BARRIER
TRAFFIC SIGNAL
GUARD HOUSE

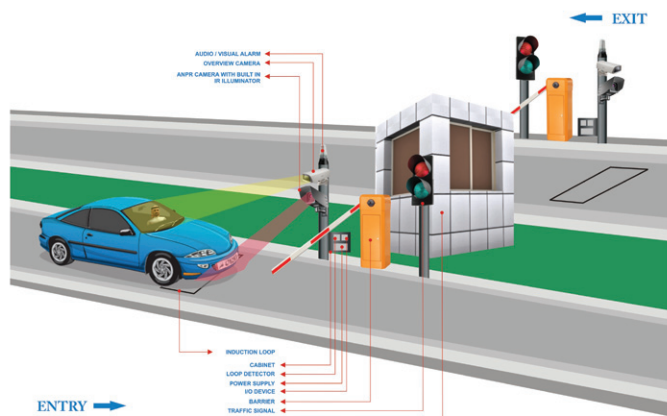ENTRY →

Overview

Traffic Tech SmartANPR Solution is a highly accurate Automatic Number Plate Recognition (ANPR) System with capability to read all GCC Licenses Plates (Arabic and Latin, alphabets and numbers). It is highly accessible, a 24x7 solution working with full options even when servers and networks are down. With its Advanced Management Software, monitoring, report generation and system management of an entire site can be done anywhere on the corporate LAN/WAN.

ANPR

ANPR (Automatic Number Plate Recognition) is a technology which automatically recognizes the number plates of stationary or moving vehicles using live stream from cameras. The system involves some key components such as ANPR Software, ANPR Cameras, Triggering Devices (Induction Loops, etc.), Management Software and Database.

The ANPR Camera captures the live image of the vehicle license plate and process it into a digital number which can be matched with a database of authorized vehicles for allowing access into secure site. License plates can also be compared with a database of black-list and watch-list vehicles to raise alarms for security and law enforcement applications. The system maintains an history of vehicles entering or exiting the site for reporting purpose.

SmartANPR Configurations:
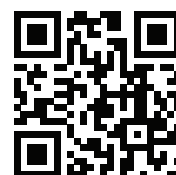
PARKING / ACCESS CONTROL MODE
- TTG SmartANPR solution is integrated with parking management and access control systems designed to provide automated vehicle access for parking lots, government & private bldgs., hotels, commercial plaza, etc.
- System components include ANPR Cameras with IR Illuminator, automatic barrier, loop detector, I/O Modules, Traffic Lights, etc.

FREE FLOW MODE
- An ANPR Solution suitable for logging vehicle entry in secure areas.
- ANPR Camera captures license plate information of moving vehicles at high speed (up to 250km/hr.). Ideal for free-flow entrances, public roads and highways.
- System components include ANPR Cameras with IR Illuminator, induction loops, optional radar and laser detectors, Audio/Visual Alarm beacons, etc.
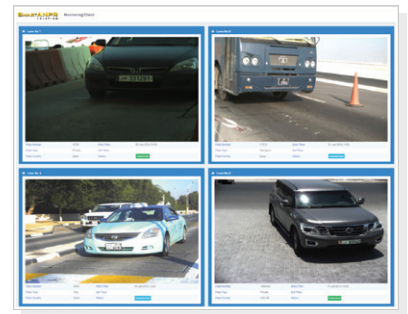
MOBILE MODE
- Mobile ANPR for law enforcement and surveillance applications.
- Typically mounted on Police Petrol Cars and other law enforcement authorities.
- Solutions for both online and offline synchronization with control centers.

FEATURES

- First Arabic ANPR (Automated Number Plate Recognition) System for reading Arabic Number Plates.
- Captures License Plates of moving vehicles with up to 100km/hr. speed for Stop & Go, and 250km/hr. speed for free-flow roads/highways.
- In addition to Plate NUMBER, also recognize Plate TYPE. Capable to recognizes all 19 Qatari Plate Types including: Private, Transport, Taxi, Police, Diplomatic, Equipment, Public Transport, Export, Armed Forces, ISF, Trailer, Government, Bike, Amiri Guard, UN, Under Expe, Limousine, Commercial & Temp Transit. This enables the system to identify each Qatari vehicle uniquely as same Plate Number can coexists in multiple Plate Types.
- Recognizes Plate COUNTRY among Qatar, Saudi, UAE, Omani, Kuwait and Bahrain, as the solution is compatible for all GCC License Plates.
- Recognizes both Reflective and Non-Reflective License Plates, throughout day and night.
- Interfaces with different third-party systems including Parking Management System, CCTV, Access Control, UVSS, etc.
- A multi-language interface (English / Arabic) facilitates the user to select/switch between interface languages at any time.
- Provides an interface to pre or post register the vehicles for people who are frequent visitors, employees, contractors, etc. to make the information available instantly for security personnel.
- Simplifies and accelerates vehicles entry and exit thus improves security for both operators and users.
- Elimination of swipe cards or proximity devices improves traffic flow during peak periods.
- Black-list feature enables the System to compare the recognized license plate number & plate type with a list of black-listed (flagged) vehicles from the Database. If a black-listed vehicle is found, a sound buzzer & visual alarm notifies the gate staff of the flagged vehicle.
- With each vehicle an overview image of the vehicle can also be stored and viewed in future.
- Optional Driver Camera integration to capture driver's face.
- Web-based access to Back-Office System Software for easier access and no need of installing any client application.
- Live monitoring of captured vehicles from any place over local area network.
- Live monitor allows monitoring multiple lanes a time in one screen as summary mode. Each lane can also be monitored in detailed separately.
- Provides advance searching on ANPR Database for any vehicles' activities with a variety of search options i.e. type, origin/country, member, date and time etc.
- A number of reports on daily or periodically basis can be generated to list the vehicles' number plates and / or pictures entered/exited during the selected period.
- Traffic flow analysis reports.
- Utilizes enterprise class database solutions incl. MS-SQL Server and Oracle for storing ANPR Transactions, with configuration options for clustering on Database Level.
- Provides flexible configurations e.g. Centralized Single or Clustered Server Solution, Standalone Servers at each location (gate) or even hybrid configuration with centralized database and distributed ANPR servers.

BENEFITS

- Proposed cameras are of high quality, colored, megapixel resolution, digital IP Cameras, and weatherproof enclosures to IP67 and IK10 rating and suitable for corrosive environments. The proposed cameras are approved by MOI-SSD.
- TTG SmartANPR System Software is also approved by MOI-SSD as the same solution has been used by MOI-SSD for monitoring various roads and highways around Qatar.
- Ready and tested integration with MOI's Centralized ANPR System.
- The system has been proven to achieves 98% accuracy rate to recognize all GCC number plates including their type and country. The accuracy rate is calculated for the accuracy of all three parameters i.e. Plate NUMBER, TYPE and COUNTRY.
- Complies fully with all MOI-SSD Specifications for ANPR System.
- Development and Support team fully available in Qatar. Provides an edge with local support.
- Many successful ANPR projects implemented in Qatar with high customer satisfaction ratings including public and private sector.