

3M Traffic Safety and Security Division



# Ingenious Solutions for a Secure World

Automatic License Plate Recognition Technology  
for the safety of our communities





# GLOBAL INDUSTRY LEADING TECHNOLOGY

Designed and manufactured in house for over 20 years, 3M Traffic Safety and Security Division boasts an expansive automatic license plate recognition product line filled with industry leading technology. Our hardware reliability and software accuracy coupled with dependable service has led to the deployment of 3M™ ALPR systems in over 50 countries.



## FULL SPECTRUM OF SOLUTIONS Trusted Technology from 3M

Our complete line of ALPR hardware and software has been deployed in many applications around the world, helping customers increase productivity, stop criminal activity, and even collect data for traffic analysis. Whatever your goal, 3M has the solution you've been looking for:

- **CAMERAS**—Available for fixed or mobile deployments, 3M cameras feature unique technologies to enhance read accuracy by suppressing ambient light such as headlights and bright sunlight.
- **HARDWARE**—Engineered and tested specifically for use with 3M ALPR systems, our rugged processors and accessory components provide unmatched durability.
- **SOFTWARE**—An array of software packages add analytical functionality and reporting capability to a wide variety of applications including law enforcement, tolling, congestion charging, access control, and parking.
- **SERVICES**—Offering on-site installation, training, consultation, and much more, 3M is committed to the success of your deployment.

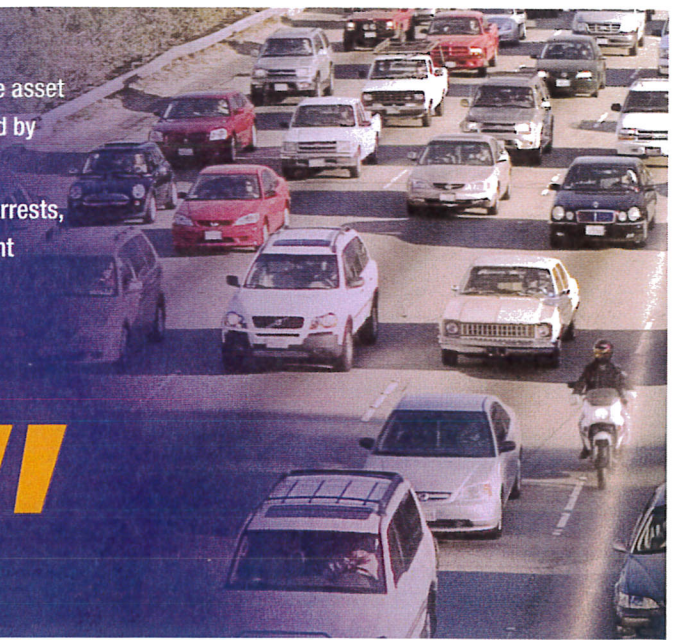


The Long Beach Police Department's ALPR system has been a huge asset to the department and has been one of the primary systems utilized by both patrol officers and detectives to solve crime.

On the patrol side, our ALPR system has read over 50M plates, led to over 500 arrests, assisted in the recovery of over 2500 stolen vehicles and led to the impoundment of over 7000 parking scofflaws' vehicles. Over \$3.4M in outstanding parking revenue is attached to those vehicles!

On the investigation side, the 3M ALPR system has been and continues to be, an invaluable technology for our detectives. From identifying and locating hit and run vehicles to placing homicide suspects at the scene of the crime, it can all be done with ALPR. Our department is using the investigative side of the technology as much, or even more than the patrol side.

— Lieutenant Christopher Morgan, Long Beach Police Department







# 3M ALPR

THE FORCE MULTIPLIER  
INCREASING OFFICER  
PRODUCTIVITY AND  
SAFETY WITH EVERY  
DEPLOYMENT



1 Photo Data

4 Officer Receives Alerts



### 3M Mobile ALPR Processor

- Designed specifically for the vehicle environment
- Powerful processing and storage for databases of interest and collected reads between shifts



Databases of Interest  
NCIC, DMV, DOJ and Local Regional

2 Reads and Hits

3 Database Information

## 3M™ MOBILE ALPR SYSTEMS

### Proactive, Preventative Enforcement

3M Mobile ALPR Systems assist on-street patrol officers checking for criminal activity by capturing and analyzing license plates against known databases. This compact, rugged system has been IP67 certified and mounts securely below the lightbar for limited visual interference.

### Features and Benefits

- Offers high resolution coverage for a full lane of traffic with up to two concurrent vehicles in the field of view.
- Instantly checks captured plates against one or more databases of interest to immediately alert officers of hits.
- Increases spatial awareness for improved officer safety.
- Enhances proactive, preventative enforcement by enabling more intelligent investigations and data sharing across jurisdictions.
- 3M™ Back Office System Software stores all collected data in a central location to support data analysis, data queries and reporting for law enforcement investigations (in accordance with each jurisdiction's data retention policy).



### Applications

Public safety for high crime areas with large volumes of local traffic

On-street enforcement of:

- Stolen Vehicles
- Amber Alerts
- Unregistered Vehicles
- Wanted Criminals
- Parking Violations
- Bolos







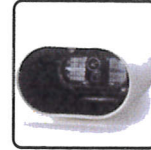
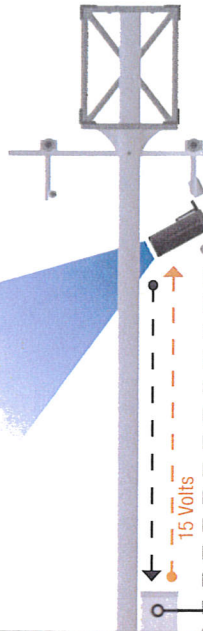
### 3M Mobile ALPR Camera

Superior plate capture performance bundled in a compact, low profile design



### 3M License Plate Capture Software

The user-friendly and intuitive interface providing alerts and search functionality to every patrol officer



### 3M Fixed ALPR Cameras

- Integrated camera and processor in water-tight seal
- Continuous monitoring of high traffic areas



### 3M Termination Box

- Providing easy access to all hardware interfaces and power supply to deployed Fixed ALPR Camera
- Enclosed in NEMA weatherproof enclosure

1a Communications via Terminal Box (Wireless, Ethernet, Lan)

1b Communications via Camera (Wireless, Ethernet, Lan)

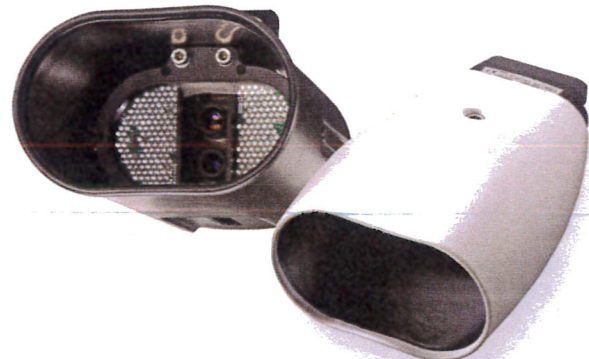
### 3M Back Office System Software

The central repository to all license plate data along with tools to support data analysis, queries and reporting

## 3M™ FIXED ALPR SYSTEMS

### A Fully Integrated Solution

3M Fixed ALPR Systems provide an array of cameras designed to fit the needs of many applications. Each system is highly configurable providing more than one average U.S. road lane coverage.



### Features and Benefits

- Continuous surveillance of high-traffic areas.
- Monitoring areas of high criminal activity at a safe distance.
- Enables rapid, efficient, and appropriate deployment of resources.
- Fully integrated cameras are rugged and compact, incorporating the fixed ALPR camera, illuminator and processor within a single sealed enclosure.
- Identification and real-time enforcement of frequent toll violators.

### Applications

High Occupancy Toll (HOT) lanes	Access control
Congestion charging	Infrastructure monitoring
Traffic data collection for analysis of road usage	Travel time management
Parking management	Continuous surveillance of high speed or high-crime areas
Speed enforcement	





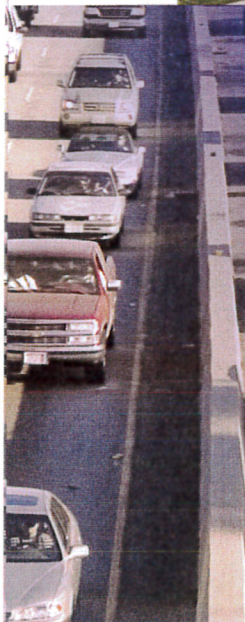
## ALPR APPLICATIONS

### Solve Your Road Dilemmas

- **AVERAGE SPEED ENFORCEMENT**—Paired or grouped cameras calculate speeds to aid in the decongestion of high traffic roads or increase safety in construction or school zones.
- **INTELLIGENT TRANSPORTATION SYSTEMS**—Specialized ALPR software helps solve a variety of road dilemmas including tolling enforcement and congestion charging, as well as unique applications like bus lane enforcement and traffic data collection.
- **LAW ENFORCEMENT AND SECURITY**—ALPR is the force multiplier assisting agencies around the world with stolen vehicle recovery and drug enforcement, while providing a plethora of investigative tools.
- **PARKING**—Provides automated parking facility management and security for airports, hospitals, universities, arenas, and stadiums.

## ALPR WITH 3M LICENSE PLATE TECHNOLOGY

In 1947, 3M introduced the first reflective materials for license plates. Since that time, the 3M reputation for quality products has expanded globally and today, 3M reflective license plate materials are utilized on vehicles around the globe. Our historical market knowledge and government relationships provide 3M ALPR customers with a unique advantage. As license plate reissues occur, our team of 3M scientists and optical character recognition (OCR) engineers are positioned to be at the forefront of those decisions, helping to ensure new license plate designs are chosen with ALPR capabilities in mind. This provides 3M OCR engineers the ability to quickly incorporate these new design components at the state, regional, or even national level.



An  
Invaluable Technology  
for Our Detectives

— Lieutenant Christopher Morgan, Long Beach Police Department





## INTELLIGENCE THROUGH INNOVATIVE TECHNOLOGY

3M captures the spark of new ideas and transforms them into thousands of ingenious products. Our culture of creative collaboration inspires a never-ending stream of powerful technologies that make life better. 3M is the innovation company that never stops inventing. With \$30 billion in sales, 3M employs 88,000 people worldwide and has operations in more than 70 countries.

Our presence in the Automatic License Plate Recognition (ALPR) industry is no different. Offering superior technology, creative designs, quality manufacturing, and reliable support, 3M offers unmatched ALPR solutions for the success of our customers. This effective tool provides accurate and timely information and allows users to make quick and well informed decisions. Today, 3M™ ALPR Systems are providing positive results for numerous applications across a wide range of industries including:

LAW  
ENFORCEMENT  
& HOMELAND  
SECURITY

PARKING  
SYSTEMS  
& ACCESS  
CONTROL

TOLLING  
SYSTEMS

CONGESTION  
CHARGING

For more information, visit [www.3M.com/mvss](http://www.3M.com/mvss) or contact the 3M Customer Contact Center at 1-877-777-3571

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