

# AVI in Parking



## TagMaster AVI System for Parking and Vehicle Access:

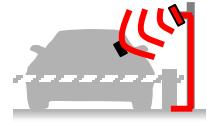
- Automatic Vehicle Identification (AVI)
- System Features
- Benefits
- Products
- References

**TagMaster**

## AVI Technology from TagMaster

- **What is AVI?**

In the parking industry, AVI means being able to automatically identify a vehicle when it enters a garage, so it can be authorized and permitted to enter and exit. Using an advanced Radio Frequency Identification (RFID) system, TagMaster is able to identify a vehicle as it approaches the gate, allowing the parking system to authorize entry and open the gate, without the driver ever having to stop or open the window. This not only improves traffic flow in peak periods, but also provides the customer with a safe and convenient way to access the garage.



- **Why use AVI?**

For the parking operator, the monthly account often represents a significant percentage of the total parking revenue. Providing monthly customers with a fast and convenient way to access the garage helps increase occupancy levels and ensure customer loyalty. The customer won't have to spend time taking tickets or stopping at the booth, they simply drive in, TagMaster takes care of the rest. For the operator, AVI can save time, money and allow them to concentrate on running the daily business operations. The TagMaster AVI system contains no moving parts, so maintenance costs are reduced and the overall system reliability increases.



### Key User Advantages

- Fast entry
- No queuing
- Easy to use
- Secure, no need to unlock car or wind down a window
- VIP treatment

### Key Operator Advantages

- Improves traffic flow
- Reliable technology, no moving parts
- Lower operating costs
- Superior level of customer service
- No site licenses required

- **Integrated with Parking Equipment**

The TagMaster's AVI system is easy to install and integrates directly into new or existing parking equipment. The reader supports all the interfacing methods used in the parking industry. TagMaster has completed installations with every major supplier of parking equipment. An AVI reader is mounted in each lane, identifying the customer while the vehicle is still approaching the barrier. This identification process is fully automatic and takes just a fraction of a second. The tag identity is passed to the parking system via the interface connection. In an integrated solution, the parking system controls the user authorization and anti-pass back protection, before opening the barrier.

## TagMaster Automatic Vehicle Identification (AVI) products at a glance

TagMaster RFID technology provides users with a true hands-free method of access at parking facilities. Vehicles equipped with an ID-tag gain fast and convenient access to garages, without having to stop or open the window. The system improves traffic flow and reduces operational costs. The following key components make up the TagMaster system:



- **TagMaster Reader**

TagMaster readers include both the controller and RF-antenna in one unit. They are easily controlled via a PC or can be operated as stand-alone units. An integrated database for 15,000 tag identities enables fast local authorisation. Gates and detection loops can be connected directly to the readers I/O ports. The reader can be configured on site and is simple and quick to install.



- **TagMaster ID-Tag**

ID-Tags are mounted inside the vehicles windshield, for easy registration at barriers or gates. Whenever possible use the TagMaster WinFix tag holder for mounting the tag inside on the windscreen of the car. The ID-Tags are the same size as a credit card and can easily be removed from the vehicle when not in use. The tag can be read at high speed and at ranges of more than 20 feet (6 metres) depending on the model selected. Tag-IDs are available as data files, for importing into PC applications. For external mounting and in harsh environments, the TagMaster heavy-duty tag should be selected.



- **The 2.45 GHz advantage**

By using the globally accepted 2.45GHz operating frequency and using very low output power, the TagMaster reader can be installed throughout the US and Canada without requiring any site licenses. The high frequency provides a well-defined read area, which ensures that readers close to each other will not identify cars in adjacent lanes. The reader has 100 selectable frequency channels for interference free installation of readers close to each other.



- **How It Works**

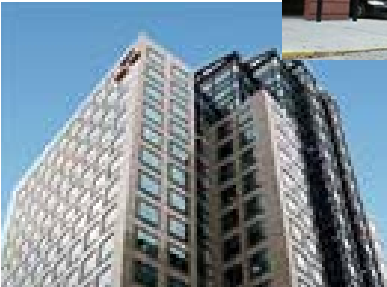
TagMaster's system utilises high-speed radio frequency identification (RFID) for communication between reader and tag. TagMaster's semi-passive tags are battery powered, so there is no wake-up time delay. The RF signal from the reader is reflected back from the tag together with its id-code. The tag has a fully predictable life span of up to 6 or 10 years and is completely maintenance-free. The tag-ID is related to the vehicle or owner in a database, which can be stored in the reader or in the parking system.



- **Mounting options**

TagMaster PoleFix and WallFix are mounting brackets that make the reader installation quick and convenient. The brackets allow the angle of the reader to be adjusted in all directions, so the read area can be set to suit the installation.

## Selected References



- **Arizona State University, AZ**  
Vehicle access for staff and student parking areas at all the main parking lots on the campus. The equipment is integrated with the Federal APD Parking System. The installation utilises S1501/00 PassMan readers and S1251 ScripTags.



- **Century Plaza Towers, LA**  
Vehicle Access to multi level parking garage for monthly parkers. 9 entrance and 12 exit lanes. The equipment is integrated with the SkiData Parking System. The installation utilises S1501/02 PassMan readers and S1255 MarkTags.



- **Long Beach Airport, LA**  
Shuttle bus access to remote Airport Parking areas. The equipment is integrated with Federal APD Parking System. The installation utilises S1501/02 PassMan readers and S1255 MarkTags.



- **Hoboken Automatic Parking, NJ**  
Fully automated, seven storey residential parking garage that allocates parking spaces and retrieves parked cars upon request. The equipment is integrated with Robotic Parking's Automated Parking System. The installation utilises S1501/02 PassMan readers and S1255 MarkTags.



- **World Exchange Plaza, Ottawa, ON**  
Vehicle access for customers using offices, restaurants, movietheatres and shops. The equipment has been integrated by TCS International. The installation utilises S1501/02 PassMan readers and S1255 MarkTags.

## TagMaster Company Background

TagMaster is one of the worlds leading suppliers of long-range identification systems. By using a technique known as radio frequency identification or RFID, TagMaster's system can automatically identify vehicles accurately at distances of up to 20 feet. Having pioneered the development of long-range RFID, TagMaster has introduced the technology into a wide variety of applications, including parking and vehicle access. TagMaster is constantly investing in research and development to ensure its products remain at the leading edge of technology. This continued development safeguards that TagMaster's equipment is manufactured to the highest standards, helping ensure that our customer's requirements for reliability and performance are satisfied. Founded in 1994, TagMaster is a Swedish public company, listed in Stockholm. TagMaster is represented throughout NorthAmerica via a network of distributors, system integrators and OEM partners.

For more information on TagMaster and our products please visit our website at [www.tagmaster.com](http://www.tagmaster.com) or contact us at [sales@tagmaster.se](mailto:sales@tagmaster.se)

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