



## VT-1000 Long Range UHF RFID Reader/ Writer

v-Tag VT-1000 Long-Range Reader is a UHF tag and card reader used in RFID applications like electronic tolling, gate access for vehicles and physical access for people. Its electronics and antennas are integrated in a single compact enclosure. The VT-1000 is optimally designed for Automatic Vehicle Identification (AVI) and Access Control applications. It also provides identification and access for people at doorways, wheelchairs at elevators and gurneys in hospital entrances. It offers price, performance advantage over conventional long-range proximity card and active-tag UHF systems. The reader is manufactured in an ISO-9001 certified facility assuring the highest quality standard. It offers an impressive combination of single unit construction, small size and attractive appearance.

### Product Specifications

#### FREQUENCY BAND

Meets strict regulatory requirements for worldwide operation  
Operates at complete RFID frequency range 840MHz to 960MHz (\*)

\* Supports European UHF frequencies (865-868 MHz), American UHF frequencies (902-928 MHz), Japan UHF frequencies (952.4-952.6 MHz), China 920.625 UHF frequencies (920.625-924.375MHz), China 840.125 UHF frequencies (840.125-844.875MHz) and Korea UHF frequencies (917.3-920.3 MHz)

#### POWER

Power Supply: 5/12VDC @ 1.2Amp

#### ANTENNA

Multiple antenna support (1, 2 and up to 4)  
Configurable output power  
Power gain up to -86dBm  
6-8 meters of strong range  
Detection Angle: up to 45°  
Supports both RSSI and Reflected power measuring type  
Frequency Hopping Spread Spectrum (FHSS)

#### TAG

ISO18000-6C (EPC Gen2) full protocol support (Read/Write), ISO18000-6A,B compatibility in direct mode (Read/Write)  
Tag memory blocks read/write (Reserved, EPC, TID and user)

#### SECURITY

Password protection and Encryption

#### ENVIRONMENT

Operating Temperature: -10 C° to +70 C°  
Storage Temperature: -40 C° to +85 C°  
Humidity 5-95% non-condensing

#### INTERFACE

Serial-RS232  
USB  
10/100 BaseT Ethernet



<http://www.hypass.com>

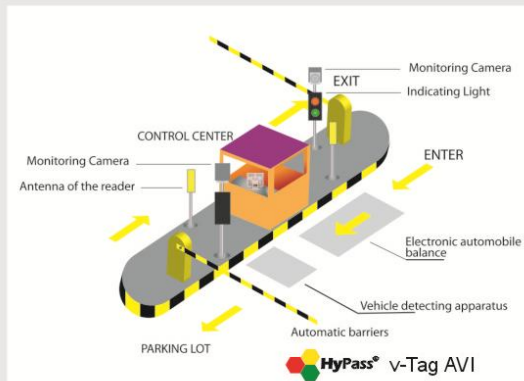
# AUTOMATIC VEHICLE IDENTIFICATION

## V-TAG

for tolling, parking and vehicle access control applications

AVI SYSTEM FOR

- ➔ Highways
- ➔ Parking / Building access Control
- ➔ Residential areas



 **HyPass Systems**  
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## What is AVI?

Automatic vehicle identification is a component of Intelligent Transportation System (ITS) which means to automatically identify a vehicle at a barrier. The HyPass AVI system can with its advance RFID technology, identify a vehicle as it approaches a gate or a barrier, allowing the AVI control 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 at peak hours but also provides customers with safe and convenient way to access a facility. It is capable of detecting the high speed vehicles allowing operator to plan toll collection and tracking without interrupting the user.

## Anti-Counterfeiting

v-Tag has an anti-counterfeiting feature which will destroy the tag during the attempt to remove it from the windshield.

## v-Tag Applications

### Real-Time Traffic Management

- Electronic vehicle registration enforces regulation, reduces processing time and improves accuracy
- Real-time traffic information reduces traffic and speeds up accident processing time
- Automatic identification reduces car theft
- Automatic toll collection

### Vehicle, Asset and Personal Access Control

- Hands-free parking management
- Frequent user parking ease
- Cash free parking
- Government facility parking control
- People tracking and locating in office premises
- Secure monitoring and tracking of assets