

## **Company profile:**

ARH INC. HUNGARY, EU, ALKOTÁS UTCA 41, BUDAPEST, 1123  
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Tags: ANPR hardware manufacturer, ANPR software developer, Passport reader manufacturer, Passport reader software developer, ITS solutions, Video Surveillance Systems

## **About us**

ARH Inc develops, manufactures and offers highly reliable intelligent software, devices and complete solutions that process images and data – including ANPR cameras and ID readers – with a market presence in over 160 countries for more than 26 years.

## **Main products/services/solutions**

ANPR/LPR software: CARMEN ANPR®, CARMEN® GO;

INTELLIGENT TRAFFIC SOLUTIONS (ITS): ARH S1, TRAFFICSPOT®

ACCESS CONTROL: PARKIT SYSTEM®

PASSPORT READERS: COMBO SMART N

## **Unique Selling Point, values (description of main advantages)**

The benefit of ARH's vehicle license plate recognition products is that they are capable of reading all the license plates in the world, with exceptionally high accuracy rates, alphabet independently.

**CARMEN® ANPR** is designed to read all vehicle license plate types in the world in any traffic speed. Toll collection and congestion charging systems, traffic monitoring and security, speed and journey time measurement, bus lane and traffic light enforcement, parking or access control and many other systems can benefit from the fast, exact, automatic identification and recognition capabilities of this ANPR/LPR engine.

CARMEN® ANPR reads license plates from many image sources remarkably fast and with the highest recognition accuracy in its class. It offers country-independent recognition of not only of Latin characters, but also Arabic, Cyrillic, Chinese, Korean, Thai and many more, as well as reflective, non-reflective, personalized and special interest plates that are typical in many U.S. states.

**CARMEN® GO** is a camera independent solution since it can accept the streams of any IP camera from any vendor. CARMEN® GO uses the same industry leader CARMEN® ANPR engine that is at the heart of top ANPR/LPR systems around the world. At the same time, it offers the unrivalled benefit of self-adjusting settings to achieve optimal results. This is how we can make sure that CARMEN® GO produces the best possible result based on the given stream.

**ARH S1** records each passing vehicle, registers its speed and license plate, takes a full-color image, detects violation events, adds a time stamp and a location stamp and creates a data package which it stores and forwards to a central database. S1 is fully self-operated. Once set up on location, it uses automatic number plate recognition technology to identify vehicles, takes still images or video, deploys event recognition to record their behaviour in traffic, Recorded data can be used real-time or later by authorities or electronic toll collection staff.

**PARKIT SYSTEM®** is a complete end user access control and parking management system. It is highly flexible and customizable for any size of application: from small residential to large industrial, commercial or government installations – even for multiple sites. The system

components are designed and built together to achieve simple and easy integration with any access control environment and without requiring programming or other specialized skills. ParkIT System® is easy to set up, simple to operate, and it permits separate user access and administration levels for straightforward operation and data management.

**COMBO SMART N** has a cutting edge compared to other passport readers: onboard data processing. While other scanners require a local PC connection, Combo Smart N performs passport data capture and authentication on its own. This all-in-one unit reads full ID information – Machine Readable Zone (MRZ), Visual Inspection Zone (VIZ) and performs smart chip decoding (RFID) – without a PC or laptop and works perfectly with thin clients. As a platform independent device, it needs no installation. Combo Smart N can be accessed remotely from a range of devices including smartphones and tablets and seamlessly functions in any kind of environment – via a customizable web interface. All this makes the device the perfect choice for high security environments – where the practicality of plug-and-play operation is a priority.

## **SMART CITY / SAFE CITY SOLUTIONS**

### **– OUR VISION OF SUSTAINABLE, SECURE AND AGILE METROPOLITAN MOBILITY –**

A key area in every smart city concept is efficient traffic management. If done right, it can have a great positive impact on urban growth, safety and environment. ARH's non-intrusive intelligent traffic monitoring devices with on-board video analytics can build up an entire smart city system. You will get real-time, accurate information on the level of service, the ability to predict traffic trends, identify potential threats or know immediately when an incident happened.

### **BENEFITS OF ARH'S INTEGRATED SMART CITY SOLUTION**

- 1. Vehicle identification, traffic count and prediction of trends**

ARH offers both fixed and portable traffic monitoring devices that detect and count each and every vehicle, read their license plate, identify their nationality, speed and vehicle category.

- 2. Proactive traffic management**

ARH provides the data to make smart decisions, show real-time traffic data as heat map, predict congestion and warn of potential traffic incidents.

- 3. On-street parking enforcement**

Parking enforcement on busy city roads means a huge workload for a large staff when it is done manually. ARH's solution collects evidence and provides an automated way of reading plates from a patrol vehicle on the move.

- 4. Vehicle fingerprinting**

Replacing the license plate is a common offence that is hard to detect. But not anymore. ARH's system can create a fingerprint based on the physical characteristics of a vehicle and assign its license plate data to it. If the same license plate appears on a different type of vehicle, the system will immediately spot the non-matching plate.

- 5. Fewer accidents thanks to point-to-point speed measurement**

Local drivers tend to remember where to push the brake when they reach fixed speed radars. Point-to-point speed measurement works on a different principle. has the benefit However, average speed measurement cannot be deluded as it calculates the vehicle's speed from journey time and distance between checkpoints.

## ARH links

### 1. Company description

About ARH (one-pager): [https://www.arh.hu/doc/arh\\_about\\_flyer.pdf](https://www.arh.hu/doc/arh_about_flyer.pdf)

About ARH – Mission Statement, Business Policy (html) :  
<https://www.arh.hu/index.php/en/about.html>

Corporate profile video: <https://www.youtube.com/watch?v=fMiVhe6TLG4>

### 1. Products and fields

The know-how of ARH is manifested in **four main product lines**:

- Automatic number plate / license plate recognition (**ANPR/LPR**) software and purpose-built cameras optimized for such applications

Softwares

one-pager: [https://www.arh.hu/doc/arh\\_full\\_carmen\\_software\\_versions.pdf](https://www.arh.hu/doc/arh_full_carmen_software_versions.pdf)

html: <https://www.arh.hu/index.php/en/products.html#software>

Cameras

one-pager: [https://www.arh.hu/doc/arh\\_anpr\\_flyer.pdf](https://www.arh.hu/doc/arh_anpr_flyer.pdf)

html: <https://www.arh.hu/index.php/en/products.html#speedcameras>

html: <https://www.arh.hu/index.php/en/products.html#rcameras>

- **ID scanners** with high-end OCR and authentication software for the automatic processing of identity cards, driving licences and passports

one-pager: [https://www.arh.hu/doc/arh\\_pr\\_flyer.pdf](https://www.arh.hu/doc/arh_pr_flyer.pdf)

html: <https://www.arh.hu/index.php/en/products.html#passportid>

- ARH's **Intellio** brand offers complex **surveillance systems** featuring cameras and video management software

one-pager: in brochure page 34-35.

html: <https://intellio.eu/index.php/en/>

- **Intelligent Traffic Solutions (ITS)** offers integrated turnkey solutions with multi-sensor traffic monitoring as well as a scalable, flexible, robust and super-fast central system to store all records including visual data

one-pager: in brochure page 30-33

html: <https://www.arh.hu/index.php/en/products.html#itsparking>

## 2. VIP products and videos

### ANPR/LPR software

- CARMEN ANPR®:  
one-pager: [https://www.arh.hu/doc/arh\\_freeflowsoftware.pdf](https://www.arh.hu/doc/arh_freeflowsoftware.pdf)  
youtube video: <https://www.youtube.com/watch?v=LBrmElQinTc>

### ANPR/LPR camera

- MicroCAM (M402)  
one-pager: [https://www.arh.hu/doc/arh\\_m402camera.pdf](https://www.arh.hu/doc/arh_m402camera.pdf)  
youtube video: <https://www.youtube.com/watch?v=BaW-7jKGMQI>

### INTELLIGENT TRAFFIC SOLUTIONS (ITS)

- ARH S1  
one-pager: [https://www.arh.hu/doc/arh\\_s1camera.pdf](https://www.arh.hu/doc/arh_s1camera.pdf)  
youtube video: <https://www.youtube.com/watch?v=4DddsodYMo>
- TRAFFICSPOT®  
one-pager: [https://www.arh.hu/doc/arh\\_trafficspot.pdf](https://www.arh.hu/doc/arh_trafficspot.pdf)  
youtube video: <https://www.youtube.com/watch?v=YWT8cNMgAJY>

### ACCES CONTROL

- PARKIT SYSTEM®  
one-pager: [https://www.arh.hu/doc/arh\\_parkitsystem.pdf](https://www.arh.hu/doc/arh_parkitsystem.pdf)  
youtube video: <https://www.youtube.com/watch?v=mmNOCzR9XH0>

### PASSPORT READERS

- COMBO SMART  
one-pager: [https://www.arh.hu/doc/arh\\_combosmart.pdf](https://www.arh.hu/doc/arh_combosmart.pdf)  
youtube video: <https://www.youtube.com/watch?v=gxzGDzSbAJs>
- PRMc  
one-pager: [https://www.arh.hu/doc/arh\\_prmc.pdf](https://www.arh.hu/doc/arh_prmc.pdf)  
youtube video: <https://www.youtube.com/watch?v=MF4rw2Lta3E>

Full company brochure (one-pager): [https://www.arh.hu/doc/arh\\_full\\_flyer.pdf](https://www.arh.hu/doc/arh_full_flyer.pdf)