ADAPTIVE RECOGNITION
Image Recognition Products for Traffic, Security, ID Data Entry Automation and Biometric Identification

OCR RESULTS:
- NUMBER PLATE: A RH 001
- VEHICLE TYPE: MERCEDES BENZ
- NATIONALITY: EU-HUNGARY
- SPEED: 158 MPH / 254 KMH
- BLACKLIST: - - NO -
- COLOR: BLUE METAL
- OWNER: ZSOOLT VANYI

ARH 001

ARH 001
CARMEN® – The ANPR/LPR engine

CARMEN® is the brand name of ARH’s ANPR/LPR technology. It refers to the CARMEN® software family that includes several ANPR/LPR software versions suitable for different application environments. CARMEN® offers a flexible API that ensures easy integration into any type of security system. CARMEN® is used by integrator companies as an OEM component in applications ranging from Intelligent Transportation Systems (ITS), law enforcement, parking systems, and traffic analysis/management systems. Each CARMEN® version uses the same ANPR/LPR engine that is regarded as the most accurate, flexible, and sophisticated ANPR/LPR engine in the world.

CARMEN® ANPR/LPR SOFTWARE VERSIONS

**CARMEN® FreeFlow**
Applicable for reading fast moving (up to 250km/h /155 mph) and static vehicle plates, works with any digital (IP) and analog cameras

**CARMEN® Parking**
Extended version of Parking Lane, up to 16 analog cameras for parking and access control

**CARMEN® Parking Digital**
Designed to be used with digital (IP) or analog cameras in parking & access control applications

MAIN BENEFITS
- Exceptionally fast speed: processing of one image takes less than 10 ms*
- Supports both Windows and Linux platforms**
- Generic and multiple specific engines: Korean, Chinese, Arabic, Thai, etc.
- The market leader global ANPR/LPR engine

*Measured on EU plates using 2.6 GHz Dual Core CPU
**Supported input types (analog / digital / still images / MJPEG video streams) depend on the CARMEN® version

KEY FEATURES
- Flexible, user-friendly API, designed to ensure easy integration
- Country-, State-, Province-, and plate type recognition
- Recognition of plate, even on some B&W images
- Hardware independent: works with any camera or still images**
- Auto-adjusts to the environment
- High tolerance of diverse plate sizes, syntaxes and distorted plate images

OEM CUSTOMIZED ENGINE

The neural network technology of CARMEN® gives the engine the ability to learn. ARH can meet various requests, such as reading aircraft registrations, vessel numbers, utility meters, bib numbers of sporting event participants and many other exciting demands with a branded or generic version of the software.
ARH designs, manufactures and sells both OCR software and integrated OCR devices for automatic recognition of vehicle plates, which automatically facilitate the processing of vehicle registration numbers (number plates) by computer systems.

Its success is proven by the approximately 5,500 working relationships what ARH Inc. maintains with systems integration clients across the globe, as well as the many thousands of CARMEN® ANPR/LPR systems operating worldwide. CARMEN® FreeFlow is an innovative identification technology for traffic surveillance, toll collection, traffic management and many other projects where accuracy, speed, and automation are essential objectives.

Due to its cutting-edge technology, high accuracy rate, adaptability and rapid image processing, CARMEN® FreeFlow is among the best of its class. In addition to recognizing Latin characters, the CARMEN® ANPR/LPR engine can read Arabic, Chinese, Cyrillic, and (with special training), any other types of number plates as well. The software can execute continuous vehicle plate reading even for speeds of up to 250 km/h (155 mph). This feature is especially important, for instance, in convicting speeding violations or within automatic toll collection projects, just to mention a few. CARMEN® FreeFlow is a core technology rather than a complete application, and it was specifically designed and developed to easily integrate into complex intelligent traffic applications. It is a flexible system that can be tailored to meet specific customer requirements through its comprehensive functional libraries.

**THE CARMEN® FREEFLOW ANPR/LPR PACKAGE CONTAINS THE FOLLOWING ELEMENTS**

- Automatic vehicle plate recognition engine
- Neural Network Controller
- Functions libraries
- Demo and test applications
- Tutorial and sample programs both in executable and source code

**Optional devices:**

- To achieve the highest possible recognition rate, the image quality is a key factor. ARH offers professional quality cameras specifically designed for vehicle plate recognition. Different models are available to meet all the customer requirements.
- To achieve the best image quality and to avoid incompatibility issues, CARMEN® FreeFlow can be delivered with a proprietary video capture card which also serves as a neural network controller. The system may be used on any existing PC system running under Windows or Linux.

**An intelligent transportation system equipped with CARMEN® FreeFlow can provide:**

- Flexible and automatic highway toll collection systems
- Better traffic flow
- Automatic access control point management
- Analysis of city traffic during peak periods
- Automation of weigh-in-motion systems
- Enhanced vehicle theft prevention
- Effective law enforcement
- Highest efficiency for border control systems, etc.
CARMEN® FreeFlow

The CARMEN® FreeFlow software is the flagship of the CARMEN® Recognition Software family. CARMEN® FreeFlow is designed to read vehicle plates of automobiles. Registration plates are the most common and obvious means of motor vehicle identification worldwide. Traffic monitoring and security, tolling and congestion charging systems, speed and journey time measurement, access control, parking management, bus lane enforcement, border control or gas station monitoring are among many other systems that can benefit from fast and accurate automatic identification and recognition capabilities. CARMEN® FreeFlow reads vehicle plates from any image source extremely fast and with outstanding accuracy. It offers country-independent recognition as well as recognition of vehicle plates written, not only in the Latin characters, but also in Arabic, Cyrillic, Chinese, Korean, Thai and many more.

MAIN BENEFITS

- Saving time and energy in data entry, automating vehicle plate reading
- Decreasing data entry errors with improved accuracy and recognition rates
- Increasing security and safety of highways and access control areas
- Raising fidelity by handling various plate sizes, syntaxes, and distorted plate images
- Allowing smooth and problem-free 24/7 operation
- Ensuring easy installation through SDK; user-friendly API

*Special ANPR/LPR cameras are available for higher quality images and recognitions rates.

KEY FEATURES

- Automatic recognition of vehicle plates in free flowing traffic
- Fast, easy, and straightforward use
- Hardware independence: compatible with any image source (analog / digital / still images / MJPEG video streams)
- Country, state or province, and plate type recognition
- Country-independent recognition including Latin, Arabic, Chinese, Korean, Thai characters, and many more
- Plate color recognition even on some B&W images
Probably the most common ANPR/LPR applications are parking and access control. In the scope of these applications a common type of vehicle plate recognition system with typical hardware configuration and system layout can be defined.

The following plate recognition example will introduce a simple, but typical, ANPR/LPR system for access control. (Note, that in most cases the ANPR/LPR system is only a part of an integrated access control system.)

The vehicle approaches the gate of the restricted area it wants to enter. There is a barrier and a traffic light showing red as an indication to stop. An inductive loop is installed at the entrance in order to sense the arrival (and the presence) of the vehicle. There is also a CCTV camera mounted to monitor the entrance.

The inductive loop, the camera, the traffic light, and the barrier are all connected to a control PC. The PC is running an access control application, which coordinates the entire operation of the system (cameras, database, and barrier). As the vehicle arrives, the inductive loop senses the event and signals to the PC: “car arrived”.

The access control application processes and interprets the signal. The access control application – via driving a frame grabber card – captures the video signal of the camera and creates a digital picture of the vehicle in the memory (RAM) of the PC.

With the digitized picture of the vehicle in RAM, the access control application requests the vehicle plate reader module to analyse the digitized picture and read the plate number of the vehicle.

After reading the plate number, the ANPR/LPR module returns this information in ASCII to the access control application. The access control application takes the vehicle number in ASCII and passes it to a database module.

The database module checks the plate number against different permission lists, and returns an “access granted” or “access denied” flag. Based on the flag, the access control application decides whether or not to open the barrier and set the traffic light green.

The access control application may also record relevant information – such as date and time of access – in the database module in order to build an access diary. After the vehicle moves away from the gate, (either by passing through or leaving), the system gets ready to start the entire process again for the next arriving vehicle.
CARMEN® Parking

THE ULTIMATE RECOGNITION ENGINE FOR ACCESS CONTROL AND PARKING APPLICATIONS

CARMEN® Parking has been exclusively developed to automatically extract and recognize vehicle plate numbers of vehicles that stop or slow down at a barrier. Vehicle plates are the most widespread and easily recognizable means of motor vehicle identification in the world today. Automatic plate reading allows CCTV based applications, parking, and access control systems to gain precision and speed in data entry, logging, record keeping, security, parking management, and much more.

CARMEN® Parking can read plates from analog imaging sources at the fastest and most accurate recognition rates possible. It provides country-independent recognition along with the capability to process not only Latin characters but also Arabic, Cyrillic, Chinese, Korean, Thai, as well as several others.

MAIN BENEFITS

• Saving time and energy in data entry by automating plate reading
• Reducing data entry errors through high accuracy and recognition rates
• Centralising registration eliminates the need for access cards or codes to system users
• Increasing safety and security of access control areas
• Boosting reliability by handling various plate sizes, syntaxes, and distorted plate images
• Allowing smooth and problem-free 24/7 operation

*Special ANPR/LPR cameras are available for higher quality images and recognitions rates.

KEY FEATURES

• Automatic recognition of analog input plate images of vehicles in static or reduced speed traffic situations.
• Fast, easy, and straightforward use
• Country, state or province, and plate type recognition
• Country-independent recognition including Latin, Arabic, Chinese, Korean, Thai characters, and many more
• Multiple-image processing with multiple sources for the same vehicle to ensure high recognition accuracy
• Plate color recognition even on some B&W images
**CARMEN® ACCR**

The CARMEN® Automatic Container Code Recognition (CARMEN® ACCR) software is a dedicated version of the CARMEN® Recognition Software family. CARMEN® ACCR is created to extract and read the Container Codes of ISO containers. The ISO Container Code – defined by the ISO 6346 international standard – is the primary identification number of intermodal (shipping) containers. This code identifies the owner, the type/category of the container, as well as its unique serial number.

The capability of reading the ISO container codes of shipping containers makes harbour, port, and logistic environments much more intelligent. The CARMEN® ACCR software can help build comprehensive databases of traffic movement, automate and simplify airport, railway, or harbour operations, as well as manage border control inventory and container surveillance systems.

**CARMEN® ADR**

The CARMEN® Automatic Dangerous Goods Recognition (CARMEN® ADR) software is a special version of the CARMEN® Recognition Software family. CARMEN® ADR is developed to recognise and decipher the Hazard Identification Numbers (Kemler codes) of vehicles carrying hazardous materials. Reading of Hazard Identification Numbers (HIN) in a traffic monitoring or safety system can become highly automated, which helps maintain more safety on the roads, bridges, in tunnels, etc. wherever hazardous materials are transported. CARMEN® ADR identifies materials in transport through HIN codes that indicate primary and secondary hazards, which gives emergency responders the ability to quickly reference critical information about potential dangers. The CARMEN® ADR software offers great flexibility, as it is able to successfully recognize transport vehicle HIN codes from a variety of image sources. Manufacturers and integrators of various recognition systems will be able to receive HIN code readings with the highest efficiency and reliability.
CARMEN® DOT

The CARMEN® DOT software is a specialised version of the CARMEN® Recognition Software family. CARMEN® DOT is engineered to extract and read the DOT number of a CMV (Commercial Motor Vehicle) from captured images. All commercial vehicles have to have a unique identification number obtained from their respective Dept. of Transportation. This number is the USDOT (or DOT) number. CARMEN® DOT provides US trucking and other traffic systems with a highly accurate and responsive tool for performing automatic identification and tracking, as well as building of complex databases and inventory control systems. CARMEN® DOT enables traffic and security systems to automatically identify and verify commercial vehicles from a variety of image sources with the highest recognition accuracy rates available in the market today. The software is also capable of collecting audit, inspection, and compliance information. CARMEN® DOT returns the DOT number, date, time, and location information to CMV systems, which can run the data against key state and national databases in real time.

CARMEN® UIC

The CARMEN® Railway Code Recognition software, (CARMEN® UIC) is a unique version of the CARMEN® Recognition Software family. CARMEN® UIC is created to extract and read the UIC numbers from railway wagons. Much like commercial motor vehicles and ISO containers, railroad cars also have unique and internationally standardised identification numbers, which are called UIC numbers. This identification number on a railroad wagon or coach is called the UIC number. By recognising the UIC codes on train cars, CARMEN® UIC provides unparalleled accuracy and speed for railroad transportation applications. The software works with commercial railway systems that carry freight or passengers, and it can virtually eliminate the possibility of human error by facilitating automatic data entry and reporting for further processing. International and logistics operations can benefit significantly from implementing CARMEN® UIC which can read railroad car UIC codes from either an image or video signal with the highest accuracy possible. This enables railroad systems to access important data about the content of each freight car, along with dates and times, as well as location of the car.
## COMPARISON CHART

<table>
<thead>
<tr>
<th>GENERAL INFORMATION</th>
<th>CARMEN® FreeFlow</th>
<th>CARMEN® Parking</th>
<th>CARMEN® Parking Digital</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purpose</td>
<td>Automatic recognition of vehicle license plates – a number plate recognition software for various intelligent traffic systems, security and any access control environments</td>
<td>Automatic recognition of vehicle license plates – a license plate recognition software for parking, access control and similar „low speed“ applications, where cars are slowed down or stopped by barriers</td>
<td>Automatic recognition of vehicle license plates – a license plate recognition software for parking, access control and similar „low speed“ applications, where cars are slowed down or stopped by barriers</td>
</tr>
</tbody>
</table>
| Supported operating systems | Windows (32/64 bit)  
Linux (32/64 bit) | Windows (32/64 bit)  
Linux (32/64 bit) | Windows (32/64 bit)  
Linux (32/64 bit) |
| Supported platforms | x86_32  
x86_64  
ARMv7  
PPC | x86_32  
x86_64 | x86_32  
x86_64  
|
| System requirements | 1GHz CPU  
512 MB RAM  
1 G HDD  
free port/ slot for NNC | 1GHz CPU  
512 MB RAM  
1 G HDD  
free port/ slot for NNC | 1GHz CPU  
512 MB RAM  
1 G HDD  
free port/ slot for NNC |
| Licensing | One license per application thread, multiple license/controller is available | One license per camera (lane), multiple license/controller is available | One license per application thread, multiple license/controller is available |

<table>
<thead>
<tr>
<th>INTERFACE</th>
<th>CARMEN® FreeFlow</th>
<th>CARMEN® Parking</th>
<th>CARMEN® Parking Digital</th>
</tr>
</thead>
</table>
| Input     | Still image from file or memory in any image format (BMP | PNG | JPEG | JPEG2k | RAW)  
Live analog video input (PAL or NTSC)  
Live digital camera input | Live video input from any analog camera connected to the FXVD4 frame grabber card | Still image from file or memory in any image format (BMP | PNG | JPEG | JPEG2k | RAW)  
Live analog video input (PAL or NTSC)  
Live digital camera input |
| Output    | OCR data  
License plate number in ASCII/UNICODE text  
Position of the plate  
Confidence level in percentage  
Confidence levels for each characters  
List of further suggestions for each character  
Individual result for each plate on an image  
Color of plate (optional)  
Country ID (optional)  
Location of each plate on one image | OCR data  
License plate number in ASCII/UNICODE text  
Position of the plate  
Confidence level in percentage  
Confidence levels for each characters  
List of further suggestions for each character  
ID of the best image  
Color of plate (optional)  
Country ID (optional)  
Location of each plate on one image  
One vehicle can be identified in every 3 seconds per camera | OCR data  
License plate number in ASCII/UNICODE text  
Position of the plate  
Confidence level in percentage  
ID of the best image  
Color of plate (optional)  
Country ID (optional)  
Location of each plate on one image  
One vehicle can be identified in every 3 seconds per camera |
| Trigger   | Can be integrated with any trigger device (recommended when recognizing from live image stream)  
Software motion detection module is included | Can be integrated with any trigger device (mandatory to start the recognition)  
Software motion detection module is included | Can be integrated with any trigger device (mandatory to start the recognition)  
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**MORE INFO:**

**FreeFlow**

- Web

![QR Code](image)

**Parking**

- Web

![QR Code](image)

**Parking Digital**

- Web

![QR Code](image)
<table>
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<th>CARMEN® DOT</th>
<th>CARMEN® UIC</th>
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<td>Automatic recognition of the container codes – a ISO container code recognition software for logistics systems (railway, marine, harbors and airports), supporting ISO 6346 (8IC code) and MOCO code</td>
<td>Automatic recognition of hazard identification numbers – HIN/Kentmier code recognition software for various intelligent traffic systems to enhance safety of traffic and roads</td>
<td>Automatic recognition of US DOT codes of commercial motor vehicles – a USDOT number recognition software for various traffic and security systems to automatically identify and verify commercial vehicles</td>
<td>Automatic recognition of the railway vehicle ID numbers – an UIC wagon/coach number recognition software for various intelligent railroad management systems</td>
</tr>
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<td>Windows (32/64 bit), Linux (32/64 bit)</td>
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</tr>
<tr>
<td>x86_32</td>
<td>x86_64</td>
<td>ARMv7</td>
<td>x86_32</td>
</tr>
<tr>
<td>1GHz CPU</td>
<td>512 MB RAM</td>
<td>1 G HDD</td>
<td>free port/slot for NNC</td>
</tr>
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<td>Still image from file or memory in any image format (BMP</td>
<td>PNG</td>
<td>JPEG</td>
<td>JPEG2K</td>
</tr>
<tr>
<td>OCR data</td>
<td>ISO Container code in ASCII text</td>
<td>Position of the code</td>
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INTEGRATED SOLUTIONS

ARH recognizes the particular challenges of its partners, which they often face when trying to combine different software and hardware components from various sources. Integrated Solutions provide the straightforward answer to easily tackle such a task.

ARH INTEGRATED SOLUTIONS

More than two decades of expertise in developing a wide range of purpose-built devices and market-leading software has led ARH toward the natural progression at the present to offer its partners several unified solutions. As always, the collective know-how is strongly manifested in this new group of products, and it represents the latest technical innovations of the company.

BENEFITS OF ARH INTEGRATED SOLUTIONS:

1. SEAMLESS COMPONENT INTEGRATION:
Since all the hardware and software components were specifically designed and manufactured to work together, ARH is also the best equipped to assure their optimal performance together.

2. FAST AND SIMPLE SETUP:
By the time all the components arrive to their final destination, the devices are pre-installed and calibrated, so they only need final adjustments to meet local conditions and settings.

3. SINGLE-SOURCE PROVIDER:
ARH designs, manufactures and provides customer support for all of its products. The company’s partners can always turn to a single trusted source with any question or request for assistance.

UTILIZED COMPONENTS

- **Hardware**: ARH purpose-builds all of its hardware locally and in an uncompromising quality. The company is certified by ISO 9001 standard.
- **Software**: CARMEN® engine and other ARH OCR solutions are the most recognized products in the world of license plate and document reading, and continue to return the best results in all their applications.
- **Data management**: Several of the company’s latest integrated projects have proven to be breakthrough solutions in simplified data processing and management.
- **GUI, modules, SDK**: The added value in ARH Integrated Solutions comes from intuitive GUIs, several custom modules and flexible SDKs that assist in the connection and customization of end user applications.
Globessey® Data Server (GDS), the intelligent traffic system of ARH in a combined data server and middleware, gathers information from different endpoints to make them available for various end user applications. The operators of GDS can manage the processes through a dedicated graphical interface, which is supplied along with the system.

MAIN BENEFITS

• Optimized traffic speed, easier toll collection, safer roads
• Support of other traffic-related agencies (parking, law enforcement, border control, tariff, tax and statistics)
• User and developer friendly; fast ROI
• Useful outside traffic-related applications where complex image- and text-based data is mass processed (international borders, shipping ports, logistics, airports, etc.)

KEY FEATURES

• DATA FROM ENDPOINTS
  • Standard, customizable independent data packages from endpoints
  • Central server connected via secure SSL
  • Fast IP traffic in- and outflow with xml or binary communication

• INTERNAL STRUCTURE
  • Data redundancy through high-availability replication and clustered storage
  • Highly efficient image storage
  • Dynamic hardware scalability without maximum limits

• CONNECTION TO END USER APPLICATIONS
  • Simultaneous end user applications management with standard interface and SDK
  • Wide selection of premade modules available (e.g.: stolen vehicle search)

• GRAPHICAL USER INTERFACE (GUI) CHARACTERISTICS
  • Highly effective remote operation, reflects detailed conditions in real-time
  • User-friendly display; maps and statistics
  • Search; fast and flexible with preset automation, export functions
SOLUtiONS

ROADSIDE TRAFFIC MONITORING AND DATA PROCESSING

SINGLE-GANTRY SOLUTION FOR FREE-FLOWING TRAFFIC MONITORING

Sensing and monitoring device collection installed on a single, fixed detection point (i.e.: traffic gantry or bridge) for surveillance and data gathering:
• radar • laser • overview camera • DSRC antenna • industry-leading Carmen® ANPR/LPR software.

The additional onboard processing unit intelligently computes all measured and detected data; marks each vehicle-related event with a timestamp, location and lane identification; bundles the gathered data in an encrypted package and finally sends it to a pre-designated central location.

MAIN BENEFITS
• All the necessary traffic information gathered and processed in a single location
• Ideal for toll collection, speed enforcement, journey time measurement
• Quick ROI
• Simple maintenance
• Scalability; cost effective installation and deployment

KEY FEATURES
• 100% passing vehicle detection; three separate types of detectors (radar trigger, virtual loop, laser trigger)
• 98,5%+ (TÜV-audited) detection accuracy even during heavy traffic, limited visibility and at speeds of up to 250 km/h (155 mph)
• Purpose-built hardware
• Secure data retention; continued functioning offline for at least five days
• IP-based communication
• Efficient data compression and upload
• Each necessary data set bundled in a single “event” package for ARH GLOBESSEY® Data Server
• Modular scalability for individual needs
• Monitoring and management of each components through ARH GLOBESSEY® Data Server
ParkIT® SYSTEM

AUTOMATED, EXPANDABLE VEHICLE ACCESS CONTROL SYSTEM FOR ANY SIZE OF INSTALLATION

ParkIT® System is a complete end user access control and parking management system that is highly flexible and customizable for use from a small residential to any size of industrial, commercial or government installations – even multiple sites at once. The system components are designed and built together to achieve simple and easy integration into any access control environment without the need for 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.

Components of the system are comprised of one or more ParkIT® Camera(s), the industry-leading CARMEN® ANPR/LPR engine, ParkIT® Application software, expandable server structure and customizable graphical management and user interface (GMI/GUI) for all levels. The entire secure system is encrypted and accessible through thin client or other (even mobile) IP-based connections.

MAIN BENEFITS

• Fast automated or predetermined vehicle access
• Simple ANPR/LPR-based access permission without key, card or code
• Easy installation, straightforward IP connection
• Uncomplicated graphical management and user interface

KEY FEATURES

• Unlimited expandability from one to even one thousand access points
• User-level management w/customizable interface
• License plate-based security and surveillance functions
• Black- and whitelist management
• Analytical and statistical functions
• Multi-language GMI / GUI
ABOUT ARH

ARH INC.

As an essentially innovation-driven company, the success of ARH lies in its strong focus on continuous research and development to create new technologies and in its ability to apply these achievements to meet continuously changing customer demands.

When you collaborate with ARH, your project is backed by two decades of expertise and hands-on experience in optical character recognition (OCR) and imaging technologies. The know-how of ARH is manifested in two main product lines:

- Automatic number plate/license plate recognition (ANPR/LPR) software and purpose-built cameras optimized for such applications
- Identity document readers and biometrics: advanced ID document scanners and fingerprint live scanner

The name ARH stands for Adaptive Recognition Hungary that reflects to the state-of-the-art OCR know-how of the company and its Hungarian origin.

ARH’S FACTS & FIGURES

- Established in 1991 as a privately held corporation
- HQ: Budapest, Hungary (EU), Innovation Center: Perbal, Hungary (EU), USA office: Clearwater, FL
- Number of ANPR/LPR installations: over 50,000 worldwide
- Number of ID document scanner installations: over 30,000 worldwide
- In total, more than 2500 system integrators companies deployed ARH technology
- Five times awarded the “Technology Fast 50 Central Europe” prize by Deloitte

ARH VALUES

- Dedication to customers’ success, understanding customer needs
- Innovation that matters – continuous in-house development
- Trust and personal responsibility – excellent pre- and after sales service
ARH is committed to provide uncompromising quality in all of its products at all times. ARH is certified by three ISO standards, ensuring that the company’s operation conforms to the highest international standards.

**ISO 9001:2008**

Quality management system that embraces the entire operation workflow: manufacturing, sales, marketing and customer support.

**ISO 14001:2004**

Environmental management system that helps ARH to minimize the negative environmental effect of its operations. ARH is committed to be a green company.

**ISO 27001:2005**

Information security management system that ensures the protection of confidentiality, integrity and availability of sensitive data at ARH.
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