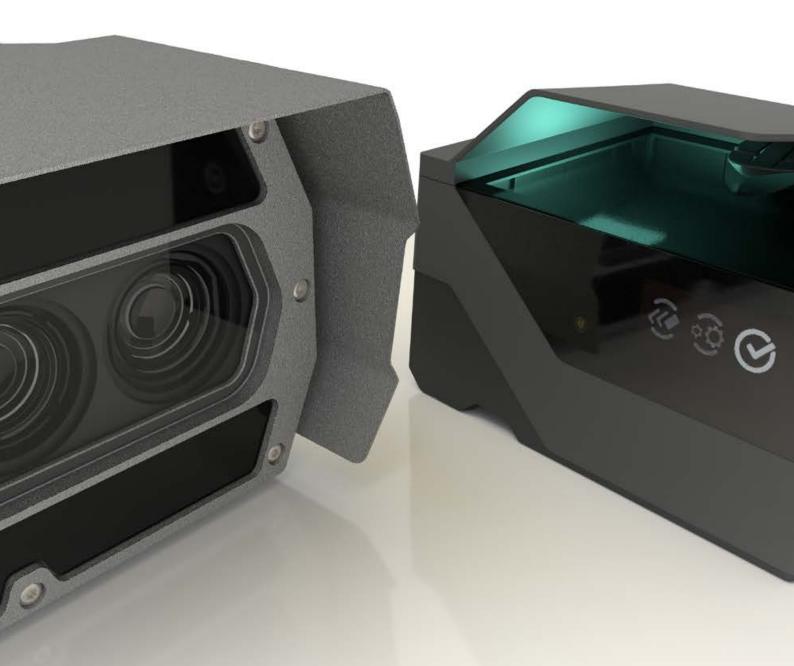


PRODUCT CATALOG



World-class **software** and **hardware** components for image capturing and analytics

Setting Standards and **Exceeding Expectations**

In the world of image processing technology, we stand as pioneers, defying expectations and continuously pushing the boundaries of accuracy, efficiency, and resilience. Our hardware and software deliver standard-setting performance, meticulously designed to operate flawlessly under the harshest conditions, braving the extremes of scorching heat and frigid cold.

We raise the bar for robustness and durability, ensuring that your systems can withstand the rigours of daily operation without fail. In a world demanding precision and unwavering performance, our world-class software and hardware components for image capturing and analytics stand out as beacons of innovation and reliability.

Experience the difference - Image Processing Technology that exceeds expectations.

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Passport Readers and ID Scanners with OCR & Authentication Software

Osmond L and R Osmond N Combo Smart II Osmond and Combo Smart Kiosk Combo Scan Software Add-Ons AutoFill Application for ID Data



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Carmen® ANPR Software Family for On-Premise or Cloud Applications

Carmen® FreeFlow ANPR Engine

Cameras & Devices for Any

Type of Traffic Monitoring

and Speed Enforcement

Vidar Smart ANPR Camera

Vidar Container Camera

Lynet ANPR-MMR Camera

SI – The Portable Speed Camera

Vidar Camera

Vidar Axle Camera

Vidar PAX Camera

Lynet Speed Camera

Enforce BOX

SmartPort

SmartRail

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Carmen® Industrial Code **Recognition Software Libraries**





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Fixed & Portable ANPR **Devices for Access Control** and Parking

Einar ANPR Camera Carmen® BOX GDS Data Server and Middleware



About Adaptive Recognition Company Overview

About Adaptive Recognition Mythical Names, Profound Meanings Our Product Portfolio Application Areas Our Clients Our Corporate Policy & Mission What Makes Us Different

Our commitment to corporate sustainability

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Osmond L and R

ID Scanners with USB Interface



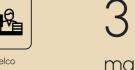












3 years
manufacturer's warranty

Scanners for Reading and Verifying Optical and Digital Data from IDs

Minimize Time Spent on ID Checking

Osmond L and R models read, authenticate, and analyze identity documents in a matter of seconds. They are ideal for mission-critical applications in security, border control, and commercial environments.

Both models feature hardware-accelerated automatic image enhancement with a maximum resolution of 700 PPI to provide complete analysis of optical security features. They inspect the MRZ (machine readable zone) and VIZ (visual inspection zone) parts of the document and perform ID/2D barcode reading as well. In addition, R models read digital (RFID-chip) data of e-documents. Besides the standard visible white, infra-red and ultra-violet, a built-in white oblique (edge) light helps visualize the surface structure of documents.

The included software API allows easy integration into any system, supporting C/C++, C#, .NET, and Java.

Main Highlights

- \cdot $\,$ Speedy verification of both ICAO and non-ICAO ID documents
- Clear and immediate feedback, easy communication with databases and external systems
- Configurations to cover use cases from border control to hospitality
- · Maintenance-free operation, no moving parts
- Industry-leading image quality for OCR and authentication with high-resolution 700 PPI imaging
- · Visible white, IR, UVA illumination, and oblique light
- IP54 case, scratch-resistant glass, large scanning window, OLED display.
- Adaptive Light Control (ALC) and Reflection Removal (RR) for filtering out interferences
- Jura IPI, letterScreen security visualization, RFID-chip/smartcard reading/writing



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Speedy document reading

Worldwide document support

Osmond N

Standalone ID Scanner













3 years
manufacturer's warranty

Models Enhanced with Dual Interface

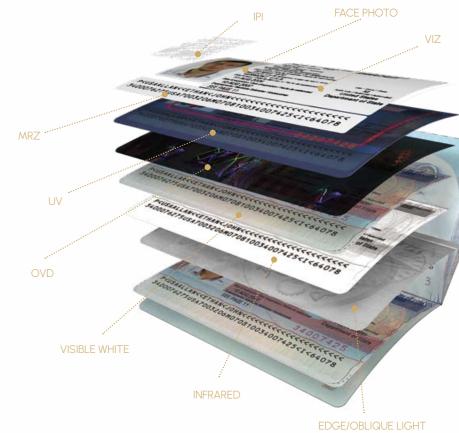
Make the Most out of Network Environments

Osmond network models are equipped with the same features as the L and R models, with the addition of a dual interface to either function as standalone network or USB devices. They can be integrated into systems with thin clients, virtualized operating systems, and any LAN and internet-based environment, with no local installation needed. Ideal for centrally managed networks, they can be used in pool mode, connecting to multiple clients in the network. Osmond N models connect to networks via Ethernet.

Models come with a software API for easy integration, featuring automatic image processing, MRZ (machine readable zone) data reading, and authentication of standard and document-specific safety features.

Main Highlights

- Standalone operation with no installation needed, selectable network (PoE+) or USB operation mode
- · Speedy verification of ID documents
- · Ease of use, programmable OLED display
- · Customizable WEB GUI interface
- · Software library and network API included
- · Visible white, IR, UV-A illumination, and oblique light
- · OVD visualization
- Adaptive Light Control (ALC) and Reflection Removal (RR) for filtering out interferences
- · IP54 case, scratch-resistant glass
- Jura IPI, letterScreen security visualization, RFID-chip/smartcard reading/writing



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Ethernet & USB modes

Speedy document reading

Worldwide document support

Combo Smart II

ID & Passport Scanner















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manufacturer's warranty

The Essential Everyday ID & Passport Reader for Quick Data Capture

ID Data Entry Has Never Been Easier

Focus on what matters. Combo Smart II scans IDs and passports instantly, freeing you up to connect with your customers.

Designed for Everyday Efficiency: Combo Smart II quickly scans and reads data from a wide range of identity documents, including passports, IDs, driver's licenses, and resident permits. It automatically detects the document type and initiates scanning for seamless data capture.

Ideal for KYC (know your customer), age verification and customer registration for businesses of all sizes that prioritize speed and accuracy in data collection (eg. hotels, banks, casinos, liquor stores, tobacco shops, car rental services, pharmacies, events and many more).

Forget about typing errors and all the struggle with entering complicated names and addresses; Combo Smart II can automatically detect and read these for you. Read MRZ (Machine Readable Zone), data from VIZ (Visual Inspection Zone) and barcodes, all in one device.

Use the captured data to fill in forms, contracts, register guests, clients, print badges with face photo. Captured data and images can be exported in various formats (including xml, pdf) or directly sent to another application (via SDK / API integration, or via our Autofill form filler software), like access- and visitor management, hotel PMS, client registration systems and many more.

Main Highlights

- · Lightning-fast data entry have all ID data in 1-2 sec
- · High-resolution ID/passport images with face photo extraction
- · Simple and effective no user training needed
- · Fully automatic document detection and reading
- · Photocopy and fraudulent document detection
- High-quality 500 ppi images captured in normal white, infra-red and ultra-violet light
- Automatic image enhancement with Adaptive Light Control (ALC) and Reflection Removal (RR)
- Easy installation (single USB cable, powered from USB, use it with a laptop as a portable device)
- · Software and drivers for both Windows and Linux systems
- \cdot $\,$ SDK (API for software integration), test programs with GUI included

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Easy usage with USB

Automatic fraud detection

Osmond and Combo Smart Kiosk

Scanners Designed for Built-in Use















3 years
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Models Available for Counter, E-gate, and Kiosk Integration

Physical Integration without Compromises

The kiosk versions of our scanners (Combo Smart Kiosk and Osmond Kiosk) are designed for flexible physical integration in kiosk applications such as border control e-gates, airline check-in, utility payment, ATM/VTM kiosks and other self-service stations.

Thanks to its reversible frame, the Combo Smart Kiosk can be integrated into a wide variety of enclosures from either side.

A range of models is available to suit the needs of projects of different sizes and complexity levels. Our products may be customized for particular sets of requirements.

The devices come with a free software library, allowing easy integration into any system.

They feature automatic image processing, VIZ (visual inspection zone), MRZ (machine readable zone), and RFID chip data reading as well as authentication of standard safety features.

Main Highlights

- \cdot Large scanning window for easier document placement
- · Clear visual and audio feedback: LEDs, buzzers
- Reading and verification of ICAO and non-ICAO documents with optional authentication against identity fraud
- · Digital and printed 1D/2D barcode recognition
- · Single-step OCR and RFID reading and writing
- · Entry/Exit System (EES) compliance
- · Visible white, IR, UV-A illumination, and OVD visualization
- · LED-indicated operation feedback for better user experience
- Adaptive Light Control (ALC) and Reflection Removal (RR) for filtering out interferences



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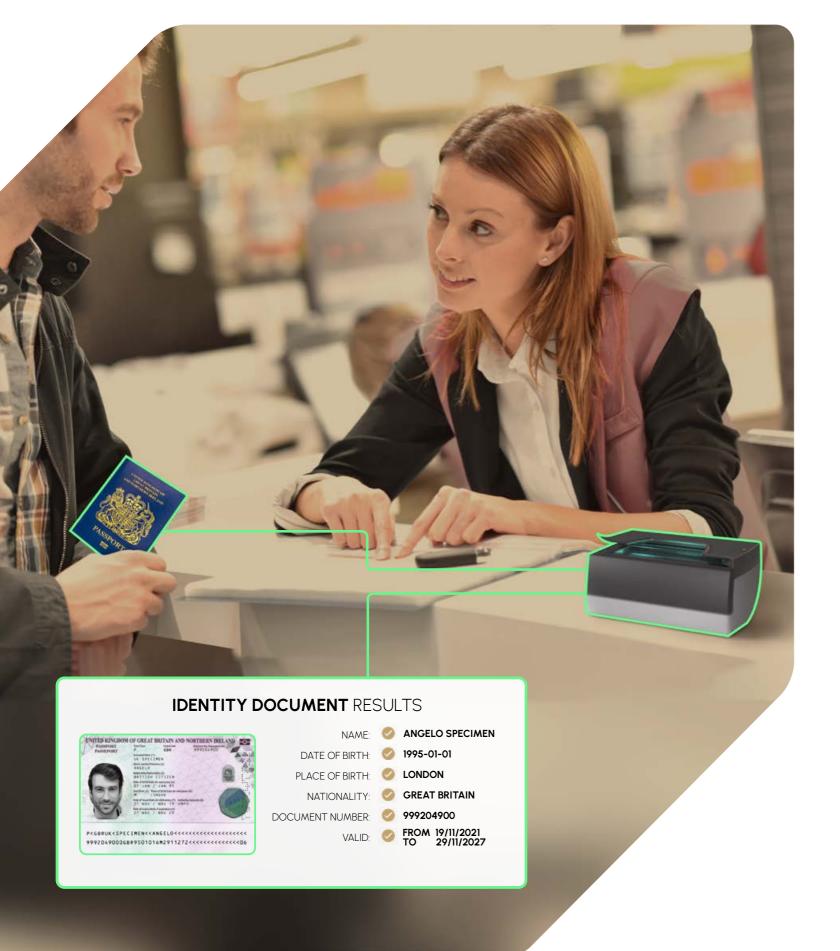
Easy integration

Automatic scanning

Adaptive illumination

Combo Scan

Full-Page ID-1 and MRZ Scanner













3 years
manufacturer's warranty

gaming

Visitor nanagement

Corporate reception

Carre

Nighi clubs

A USB-Powered Universal Scanner that Fits Into Your Palm

Supercharge Your Data Entry Workflow

Combo Scan is a compact, fully automated ID and passport scanner designed for data entry. Forget typing: place the ID on the scanning window to automatically capture MRZ (machine readable zone) and VIZ (visual inspection zone) of ID documents and transfer data to reservation forms, contracts, customer files, and more.

Combo Scan captures high-resolution images and processes them for the best OCR results.

The no-moving parts design ensures maintenance-free operation. The scanner operates on a single USB, requiring no external power supply.

The device comes with a free software library, allowing easy integration into any system, and featuring automatic image processing, MRZ data reading and authentication of standard safety features. For VIZ field reading and authentication, optional software add-on is available.

Main Highlights

- · MRZ reading and full-page ID-1 scanning in one device
- Suitable for portable use with a laptop
- · High-quality reading in all light conditions
- \cdot $\,$ Quick and accurate OCR and 1D/2D barcode reading
- · Ultra compact size:
 - 152 mm × 130 mm × 82 mm (5.98" × 5.12" × 3.23")
- High resolution 500 PPI imaging with visible white, IR LIV-A illumination
- Powered by a single USB connection
- LED-indicated operation feedback
- for better user experience
- Adaptive Light Control (ALC) and Reflection Removal (RR) for filtering out interferences



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MRZ reading and ID scanning

Ultra-compact size

Portable, USB-powered

Software Add-Ons

for VIZ Reading and Authentication





Banking













VIZ Reading and Authentication with **Geo-Specific Focus or Global Coverage**

Tailor ID Checking to Your Requirements

You can supplement the default software (provided as a complimentary software library) included in all of our ID scanner and passport reader devices with the VIZ (visual inspection zone) and authentication software modules for specific project needs.

Use the VIZ module to read and process all printed data outside the machine-readable zone (MRZ) and the authentication module to verify the authenticity of identity documents.

The software modules come in a software library and work with ICAO and non-ICAO compliant identity documents. Depending on your requirements, you can include all national identity documents of a single country or the internationally recognized documents of a geographical region or the world.

Main Highlights

- Advanced verification of document-specific security features
- Worldwide document coverage, supporting non-standard Latin characters
- Pattern and geometry analysis
- Optional inclusion of local documents
- Continuous updates with new document types
- Seamless integration through API
- Jura IPI and LetterScreen security visualization
- Internationally accepted travel documents (different types of passports, visas)
- Local identification documents such as ID cards, driver licenses
- Local residence permits, address cards, health insurance cards, etc.





SURNAME
MUESTRA SAMPLE CARMEN NATIONALITY UTO 01062026

VIZ reading

Authenticity verification

Global coverage

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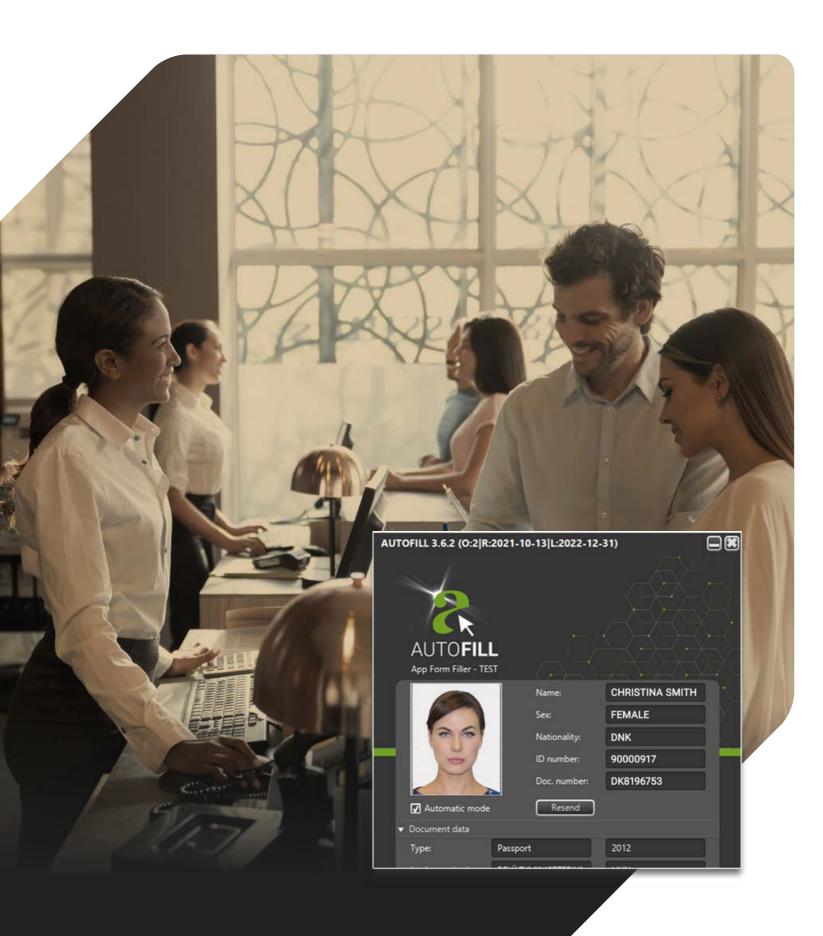




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AutoFill Application for ID Data

Transfer into PMS and Other Systems

















software update included

Fills in Web Forms Via Chrome Plugin or Sends Data to Native Application

AutoFill is an Application

AutoFill is an application available as an add-on to any Adaptive Recognition ID scanner device.

It is the easiest way to transfer data from the device to any system, such as property management systems (PMS) or any other registration systems where form filling is part of the process. It can handle data transfer from multiple pages or documents into a single form. AutoFill acts as an integration shortcut between the device and your system, keeping integration efforts to a minimum, saving time and money. There are two possible options to transmit data: by a web browser or a separate application.

Both methods of implementation require maintenance of scripts and templates. Therefore this application is recommended for integrators, not end-users.

Filling by web browser requires the Chrome plugin that will transmit the data to a registration system, eg. a PMS software. It works with all browsers that support the Chrome Native Messaging service. To transmit the data, a javascript program is applied by the browser, corresponding to the

In case the fields need to be filled in with the received data in a separate application, it can be done by a keyboard emulator. Here a template can be created to fill out the given program, simulating mouse clicks, space, tabs and more.

Main Highlights

- Integration made simple: shortcutting integration efforts, saving you time and money
- Fast data transfer: send data into any PMS or other registration system in no time
- Easy way of maintenance of scripts and templates
- Transmits data with web browsers or desktop applications as a plugin or via keyboard/mouse emulation
- Handles data transfer from multiple pages or documents into a single form
- Works all browsers that support the Chrome Native
- Templates can be created to fill out the given program, simulating mouse clicks, space, tabs and more



Easy transmission of data

Handles data from multiple pages

Works with browsers and applications

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Carmen® ANPR Software Family for On-Premise or Cloud Applications

The World's Most Accurate Recognition Software for Uncompromising performance with every scan.

Experience uncompromising performance with the Carmen® ANPR Software Family, the epitome of recognition excellence. With capabilities extending from traffic analytics to border control, Carmen® ANPR Software Family edefines recognition standards, guaranteeing unmatched precision and reliability across various applications, safeguarding your world with confidence and efficiency of excellence in identity verification.



Visit our website for more information



Carmen® FreeFlow ANPR Engine

with Software Development Kit















l year
software update included

Go for Top Recognition Rates and Coverage

Maximum Accuracy with Flexible Licensing and Multithreading

The Carmen® FreeFlow software library is designed to read and process license plates fast, with outstanding accuracy and low false-positive rates even for far-from-ideal images. Used by OEM partners and integrators in over 160 countries with more than 120,000 installations, Carmen® is the go-to choice for quality ANPR from Brazil to Japan, the Middle East and Africa to North America, and Asia-Pacific to Europe.

Carmen® offers country-independent recognition and familiarity with a wide range of alphabets, including Latin, Arabic, Cyrillic, Thai, and more.

Runs on Windows and Linux. Applications that can benefit from the fast and accurate on-premise automatic recognition capabilities of Carmen® include traffic monitoring, security, highway tolling, speed and journey time measurement, access control, and more.

Main Highlights

- Flexible licensing for scalability to any project size,
 CPU core-based licensing for multithreading
- · Integrate once and use anywhere in the world
- Reliable ANPR even for low quality images: 95%-99% real-life accuracy for all plates
- Low false-positive rates suitable for second verification in toll enforcement
- Camera-independent software, sample programs and quick support response
- Global coverage with local customization options:
 38,000+ plate types recognized from 160+ countries and 20 regions
- Country, state or province, plate type and plate color recognition
- Optional make and model recognition (MMR), dangerous goods and IMO codes recognition
- ANPR results from video stream and still images





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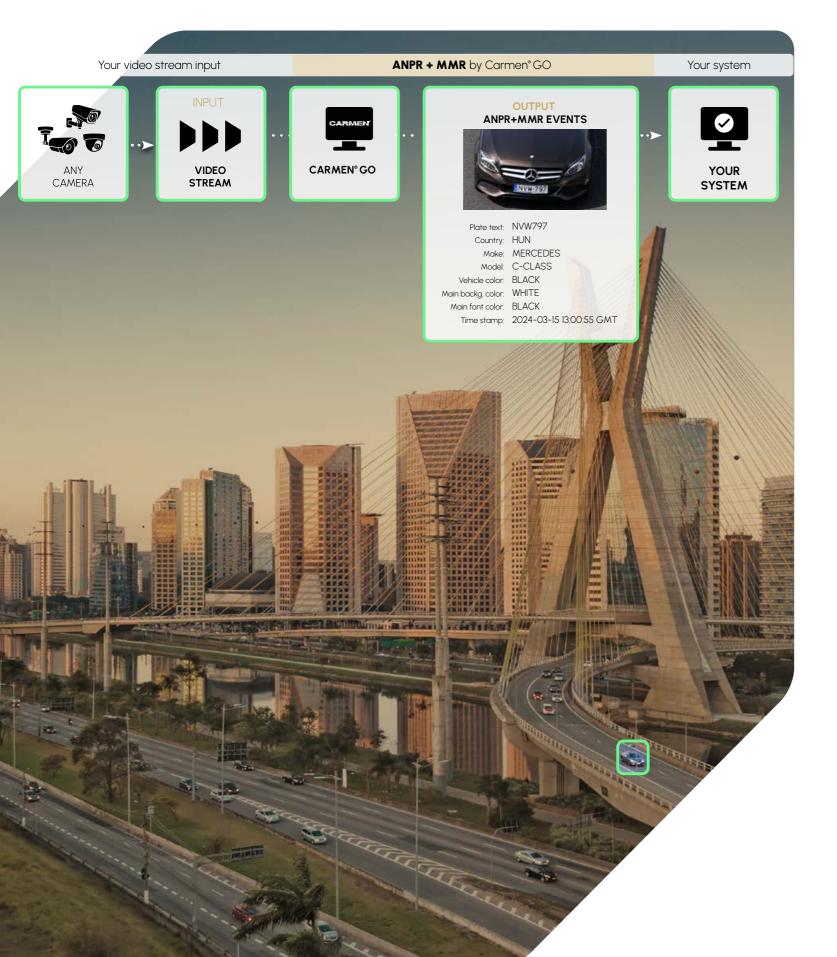
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Regular engine updates

Successful globally

Carmen® GO

ANPR & MMR from Camera Streams

















Windows Application Compatible with Any IP Camera

Get ANPR and MMR Data From Video Files and Streams

Carmen® GO is our Plug & Play ANPR solution that works with any camera. Installation and setup take less than 3 minutes: link your camera stream(s) to get ANPR and MMR results directly. An easy-to-use, intuitive GUI ensures that anyone can quickly set up and learn to operate the system without special training.

Carmen® GO identifies vehicles by smart video triggering and returns ANPR and MMR data with country-specific details. The application can handle up to 8 incoming streams simultaneously.

The output data provided by the app includes plate number, country code, image IDs, date, time, and, optionally, vehicle make, model, and color.

Main Highlights

- Easy integration via REST API
- Worldwide coverage via Carmen® ANPR engine
- No need for triggers and external vehicle detection
- Scalable solution handling up to 8 streams simultaneously
- Flexible licensing options to fit your needs
- Handles stream from fixed installation or from moving vehicle
- 38,000+ plate types recognized from 160+ countries and 20 regions
- Licensing based on number of streams and CPU cores
- Built-in advanced detection algorithm
- Various output formats: CSV datafile, FTP upload and/or internal database (available through JSON REST API)



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Easy integration via API

Camera-independent

Carmen® Cloud

Software as a Service (SaaS)





analytics



monitoring









Always up-to-date

Instant ANPR Results from Any Image, Anywhere in The World

Create an ANPR System Within 1 Hour

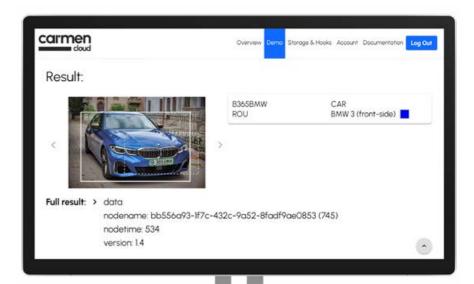
Carmen® Cloud is a cloud-based software as a service (SaaS) that lets you add a pay-per-use plate recognition function to your system without having to invest in a dedicated server.

It is the perfect solution for those looking for a robust, secure, scalable, and easy-to-manage solution with zero capital expenditures (CapEx) involved. Working with any programming language on any operating system through REST API, it analyzes images sent from a local machine, server, or any web-based URL.

You can use Carmen Cloud with Adaptive Recognition's or 3rd-party ANPR cameras. Alternatively, turn your mobile phone into a plate recognition device with the Carmen® Mobile application, which is powered by Carmen® Cloud.

Main Highlights

- · Easy integration through REST API
- No need for a dedicated server and other capital expenditures
- Only pay for what you need through several credit package options
- Worldwide coverage, access to all regional ANPR engines with a single subscription
- 38,000+ plate types recognized from 160+ countries and 20 regions
- · Automatic access to latest engine updates
- Data security (no data is stored) and GDPR compliance
- MMR data included in returned ANPR event packages
- · Data retrieval in JSON
- Camera-independent software



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SaaS with cloud server

Camera-independent

Quick integration via API

Carmen® Mobile

Android App for ANPR & MMR















Data Collection for Carmen® Cloud Even from Fast-Moving Vehicles

Turn Your Mobile Phone into an ANPR Device

Carmen® Mobile is a free, ready-to-use application for collecting ANPR data with an Android phone. The app works with any Carmen® Cloud subscription, including the free trial. It either collects data from the phone camera or retrieves images/videos from 3rd-party applications. Its new interface allows the 3rd party to not only receive events, but also fully control Carmen® Mobile.

You can easily integrate your own concept without leaving the app.

Uniquely on the market, Carmen® Mobile can collect ANPR-ready data even from fast-moving vehicles. Returned events include license plate and, optionally, MMR, GPS data, and timestamp.

Potential use cases include on-the-go traffic monitoring and parking control, wanted car detection, and visitor management.

Main Highlights

- Accurate ANPR even with a speed difference of 180 km/h (120 mph)
- 38,000+ plate types, 230+ vehicle models, and 1700+ types recognized
- · Simple integration into existing apps, easy upload of events to chosen server
- Processing of live feeds, images, and video recordings
- · Offline data collection, recognition can be done later
- Automatic or manual capturing, recognition even on images taken at night
- · Smartphone camera or screen as input source
- · Customizable event packages and alert hotlists
- · Digital signature to validate and protect sensitive data
- · Ready-made presets for different use case scenarios

CARMEN







Mobile app is completely free

Several monthly pricing plans

SaaS with secure data

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Carmen® MMR

Software Add-On















software update included

Make, Model, and Color Recognition for Any Version of Carmen® ANPR

Get Geo-Specific Brand and Model Data

Carmen® MMR is an add-on software developed for the Carmen® ANPR software family, Carmen® GO, or Carmen® Cloud plate recognition software. It is also available for all Adaptive Recognition traffic monitoring cameras that feature onboard or cloud-based ANPR.

The optional add-on enables the software to recognize the brand, model, color, and category of vehicles based on front or rear images. It brings value in many application areas, from tolling through identifying stolen vehicles to creating statistics for marketing in retail parking lots.

Carmen® MMR is available with region-specific engines. 230+ vehicle makes, 1700+ models from 7 geographical regions worldwide are recognized with high accuracy. Brand and model names are returned in a geo-specific manner.

Main Highlights

- Accurate make, model, color, viewpoint body type and category recognition
- Vehicle data for access control, marketing and other purposes
- Worldwide coverage through regional engines
- 230+ vehicle makes (brands) recognized
- 1700+ vehicle models recognized
- Regularly updated database
- One of the fastest results delivered compared to other MMR engines on the market
- Vehicle category recognized
- Vehicle color recognition
- Cloud or on-premise solution

CARMEN

Make: Ford

Model: Ranger

Category: Car

Body Type: Pick-up

Color: Red

Viewpoint: Front-Side



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Regional MMR engine

Recognition with high accuracy

Cloud or on-premise solution

Carmen® Nano ANPR

for NVIDIA Jetson-Based Computers

















On-Premise Software for ANPR and MMR with Video-Based Triggering

Upgrade any IP Camera with ANPR and MMR

Carmen® Nano ANPR is a software module especially developed for NVIDIA® JetsonTM-based computers.

Leveraging the deep learning capacity and processing power of NVIDIA Jetson Nano's graphics processing units, Carmen® software performs ultra-fast, accurate ANPR on it.

Its highly developed AI and analytics capabilities represent great potential in a wide range of applications. With this state-of-the-art hardware running Carmen®, there is no need to worry about software installation and hardware purchase. Carmen® Nano is ideal for those who wish to build their own futureproof traffic analytics system based on an NVIDIA Jetson board and handle video streams from any IP camera with an on-premise ANPR software.

Main Highlights

- On-premise plate recognition for building an ANPR system
- No need for triggers: video-based, highly accurate detection
- Rich set of features including search, statistics, allowlists and more
- Easy integration via API, camera-independent software
- GPU-accelerated plate detection
- 38,000+ plate types recognized from 160+ countries and 20 regions
- Triggering via hardware-accelerated
- Adjustable detection area, various factory presets
- Event filtering based on confidence
- Videos included in recorded events







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For Jetson-based hardware

Camera-independence

Multiple triggering options

Carmen® Industrial Code Recognition Software Libraries



Visit our website for more information



Carmen® OCR Software Library

for Container Code Recognition















I year software update included

Recognition of ISO6346, MOCO and **ILU Codes from Image Sequences**

Track Container Codes with Utmost Accuracy

The Carmen® OCR software supports shipment tracking by extracting and reading international ISO/ILU/MOCO and North American regional container codes. The extracted information can be saved to a database or transferred to an IT system, as the software integrates seamlessly with any end-user application through API.

Carmen® OCR processes image sequences from multiple sources to guarantee the best OCR results. We recommend a 3-camera setup

The automatic reading of ISO 6346 (BIC code), ILU (European Loading Unites), and MOCO (Montan Container) codes of intermodal shipping containers simplify road, railway, and harbor operations significantly, in which BIC codes serve as the primary identification for containers.

Main Highlights

- Accurate reading of ISO 6346 (BIC), MOCO, and ILU codes of 170 million shipping containers worldwide
- Camera-independence
- Easy integration via API
- Flexibility to suit independent project needs
- Compatibility with Adaptive Recognition Vidar for Containers cameras for building an entire container code reading system
- Support of horizontal and vertical codes
- Best images selected from a sequence for higher accuracy
- ASCII and Unicode output formats
- Checksum validation
- Support of multiple operating systems



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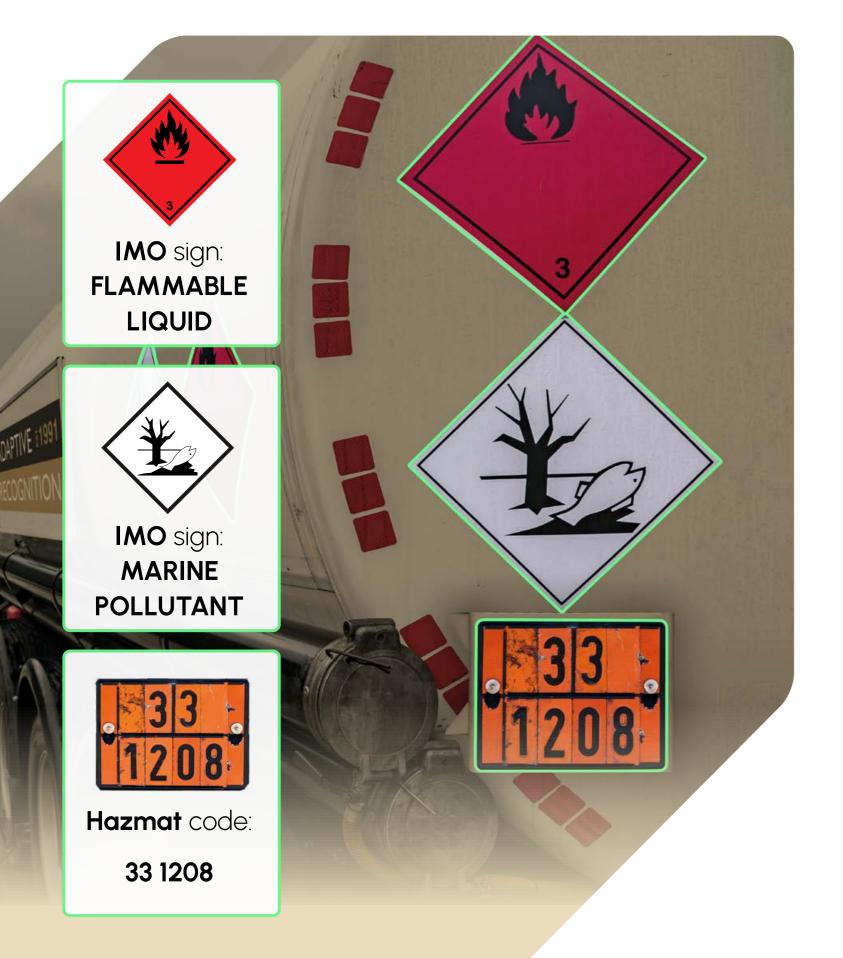
Accurate reading of global codes

Scalability to large systems

Easy integration via API

Carmen® ADR Software Library

for Dangerous Goods Code Recognition















I year software update included

Recognition of ADR and IMO (IMDG) Codes of Hazardous Materials

Complement ANPR with Hazmat Recognition

The Carmen® ADR software recognizes ADR codes and Hazard Identification Numbers (HIN) of vehicles carrying hazardous materials with exceptional accuracy. It also recognizes IMDG codes issued by the International Maritime Organization (IMO), found on containers and trailers.

The software processes the top (Kemler code) and the bottom row (substance ID) of the orange ADR signs. It indicates primary and secondary hazards, enabling emergency responders to get critical information about potential dangers quickly. Empty codes standing for multiple dangerous goods are also recognized.

Recognition of such codes increases safety on roads, bridges, tunnels, and wherever hazardous materials are transported.

Main Highlights

- Fast and reliable code reading
- Scalability to projects of any size
- Camera-independence
- Easy integration via API
- Global coverage of hazmat symbols, support of ADR, E-ADR, HIN, KEMLER, and IMO codes
- Confidence and code coordinates included in results
- Runtime code filtering to reduce false reading
- Best images selected from a sequence for higher accuracy
- ASCII and Unicode output formats
- Supports multiple operating systems



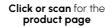


CARMEN

Global coverage of hazmat symbols

Fast & reliable reading

Easy integration & scalability



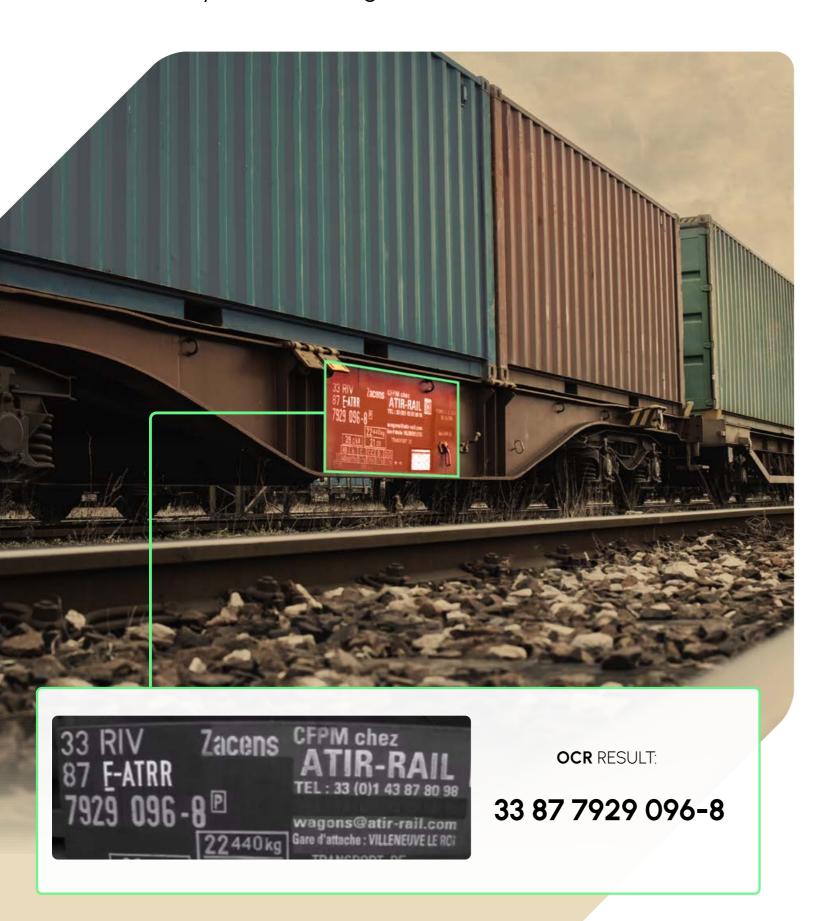




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Carmen® OCR Software Library

for Railway Code Recognition













l year software update included

Recognition of Railway Codes Regardless of Their Placement

Read International Railway Codes

The Carmen® OCR software automatically extracts and reads international railway codes (UIC) as well as regional codes used in Brazil (BRA), Russia (RUS), and North America (AAR). It also handles North American chassis numbers (CHASSIS).

UIC codes are unique and internationally standardized identification numbers found on both sides of the wagon, as laid down by the International Union of Railways. The placement and font type of these codes can vary, but the software is flexible enough to recognize them with great accuracy

The gathered data may be processed for statistical, transport, and logistics purposes.

Main Highlights

- Tolerance of variety in code placement and font types, ASCII and Unicode output formats
- Camera-independence, scalability to projects of any size
- Easy integration via API, support of multiple operating systems
- Support of UIC, BRA, RUS, and AAR railway codes and chassis numbers
- · CPU core-based licensing for multithreading
- · Image sequence-based results for higher accuracy
- · Confidence and code coordinates included in results
- · Runtime code filtering to reduce false reading
- · Best images selected from a sequence for higher accuracy





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Global coverage of railway codes

Camera-independence

Easy integration & scalability

Carmen® OCR Software Library

for Commercial Vehicle Code Recognition















l year software update included

Read and Process DOT Numbers of Vehicles

Automatic USDOT Number Recognition

The Carmen® OCR software has been created to extract and read the DOT number of commercial motor vehicles (CMVs) in the United States. These are required by the U.S. Department of Transportation for businesses that transport passengers for a fee or haul cargo across state lines.

The software functions as a highly accurate tool for automatic identification of these numbers, required to be displayed on both sides of vehicles.

With its ability to collect and audit inspection and compliance information, the software offers the DOT number, date, time, and location for CMV systems to verify key information in state and federal databases in real-time.

Main Highlights

- · Easy integration via API, camera-independence
- Fast and reliable code reading
- · Scalability to projects of any size
- · CPU core-based licensing for multithreading
- · Best images selected from a sequence for higher accuracy
- · Image and ASCII output format
- Confidence included in results for characters and whole code
- \cdot Support of multiple operating systems



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Powered by **CARMEN**

Accurate reading of USDOT numbers

Easy integration & scalability

Camera-independence

Cameras & Devices for Any Type of Traffic Monitoring and Speed Enforcement

Smarter Cameras. Safer Roads: Where Every Lane is Covered and Every Rule Enforced.

Our Cameras & Devices redefine the landscape of traffic monitoring, covering every lane and enforcing every rule to ensure safer roads and communities. Meticulously engineered to withstand extreme conditions, from scorching heat to frigid cold, our cameras & devices deliver standard-setting performance, setting new benchmarks for durability, reliability, and superior accuracy.



Visit our website for more information



Vidar Camera

for Any Type of Traffic Monitoring















3 years
manufacturer's warranty

ANPR & MMR-Ready Images, Remote Setup and Control

Reach 99,7% Detection without External Triggering of Vehicles

Vidar is a powerful ANPR camera developed for any type of traffic monitoring tasks. It is designed to solve common integrator problems like lengthy setup, missed events, and inaccurate recognition.

Vidar's unique features include a built-in laser for reliable vehicle detection, customizable triggering options, remote-control motorized zoom, focus, and iris, and advanced auto-brightness function. It provides perfect ANPR & MMR-ready images of reflective and non-reflective plates thanks to the frame parity flashing technology. A quad-core CPU is available for advanced image-based triggering and providing up to 8 streams continuously.

Main Highlights

- No missed vehicles thanks to a combination of Al-driven triggers, models with built-in laser trigger available
- Precise, white LED/IR-based imaging, handling of colored, reflective and non-reflective plates
- Suitable for surveillance purposes and ANPR
- Remote control and easy maintenance thanks to modular design
- · Resistance to physical impact and weather
- 4-core CPU for outstanding performance
- · Global shutter sensors, optical zoom, focus & iris lenses
- · Light sensor for automated illumination and imaging settings
- Secure data transfer via HTTPS
- IK10 and IP67 certified, 100% aluminum cast design



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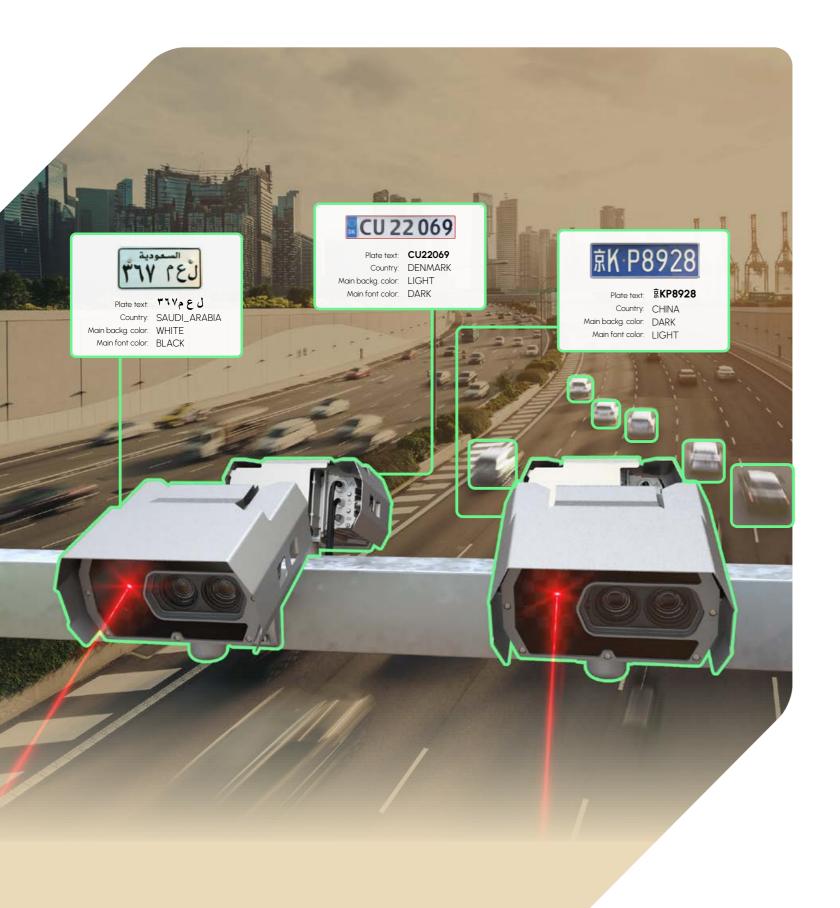
ANPR-ready camera with remote control

Leading performance & high security

Multilane detection & laser-triggering

Vidar Smart ANPR Camera

with Embedded Processing













3 years manufacturer's warranty

Onboard ANPR with Industry-Leading Performance and Dual optics

Cover All Functions with a Single Device

The Smart models of Vidar include all the features of Vidar cameras, with the addition of embedded ANPR powered by the Carmen® engine. The dedicated quad-core 4x1,4GHz CPU runs the pre-installed ANPR engine, making the device one of the most powerful standalone ANPR cameras on the market. The camera provides speedy and accurate vehicle identification with unparalleled global coverage of Latin, Arabic, Cyrillic, Thai, etc. plate types. It can also perform image-based vehicle speed estimation with high accuracy. Moreover, it features a dual optic system with varifocal lenses.

Make and model recognition (MMR) and dangerous goods code recognition are optionally available.

Main Highlights

- Accurate onboard ANPR with worldwide coverage, 99.9% vehicle detection rate with laser triggering
- Models available for multilane detection, optional make
- Advanced data security through multi-layer encryption, secure data transfer via HTTPS, local storage with strong
- Image-based speed estimation available, clear imaging even under extreme outer conditions
- Suitable for surveillance purposes as well, dedicated 4-core processing for ANPR
- Full remote control and easy maintenance thanks to modular design
- Resistance to physical impact and weather, IK10 and IP67 certified, 100% aluminum cast design
- Dual-optic system: ANPR+overview or ANPR+ANPR
- Models with built-in laser trigger available
- Object Detection trigger with vehicle categorization
- Global shutter sensors, optical and digital zoom, focus & iris lenses



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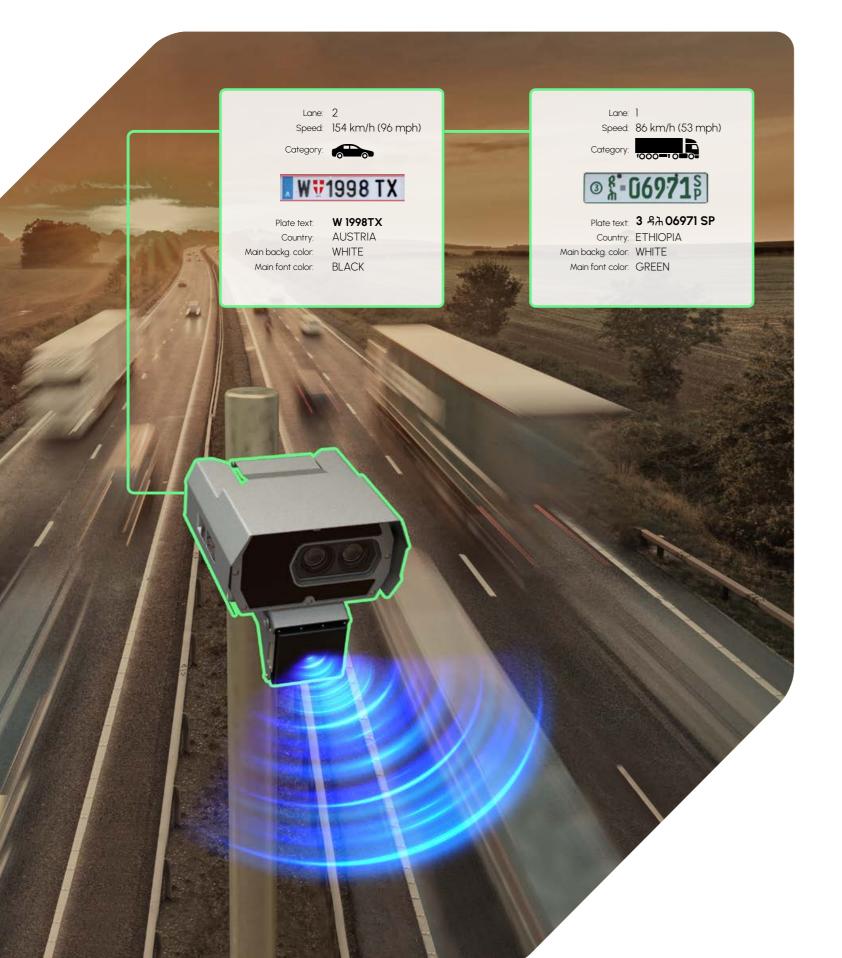
2 CPUs with 4 cores each running ANPR & MMR

Accurate onboard ANPR with worldwide coverage

Built-in laser module

Vidar Speed Camera for Speed Measurement

with Advanced Traffic Analysis Capabilites















3 years manufacturer's warranty

Certified Speed Measurement on Multiple Lanes

Stationary Speed Camera with Advanced Traffic Analysis Capabilites

Vidar Speed cameras display all the Vidar Smart models' features and are equipped with a multilane, multi-object tracking radar. They perform vehicle categorization, and provide certifiable speed measurement: even the applied 4D Radar module is certified by the Swiss Federal Institute of Metrology (METAS).

Thanks to the ultra-high definition radar, the sensor can separate objects based on their speed, distance, horizontal and vertical angles. Its sturdy design ensures resistance to adverse weather conditions.

The radar can detect and simultaneously track all vehicles (more than 60 objects at a time) in the camera's field of view.

Main Highlights

- World leader Carmen® ANPR onboard with worldwide coverage, onboard MMR, ADR and vehicle categorization
- Certified speed measurement up to 320 km/h (200 mph), secondary speed estimation based on motion analysis
- Precise vehicle detection in multilane scenarios with dense traffic
- Clear imaging with 5 MP sensor, even under extreme external conditions
- Well-documented API, easy integration, suitable for surveillance purposes
- Resistance to physical impact and weather, IK10 and IP67 certified, 100% aluminum cast design
- Multilane, object-tracking 4D radar for triggering & speed detection
- Dual optics: one is optimized for ANPR, MMR and ADR recognition, the other for overview
- Internal storage for the temporary storage of approximately 50,000 events with images
- Dedicated quad-core processing for outstanding ANPR performance
- Light sensor for automated illuminationand imaging settings
- Secure data transfer with several protocols, including HTTPS



Stationary smart speed camera

Multilane tracking

Certified up to 320 km/h (200 mph)

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Vidar Axle Camera

for Vehicle Axle Counting















3 years manufacturer's warranty

Image-Based Axle Counting with a Single, Smart Camera

Capture Complete Line Scan Images of Vehicles Analysis Capabilites

Vidar Axle Count is a compact yet robust camera designed for axle identification and counting in road tolling, ferry access control, logistics, and other operations. The camera provides line-scan type reconstructed images with metadata containing axle count and vehicle category, which can be further processed by any kind of traffic-related business intelligence.

The camera has been designed to provide highly reliable, image based vehicle classification. It can capture complete image regardless the vehicle length and the embedded intelligence specifies the vehicle class (EUR13, FHWA, customizable), length and structure.

Main Highlights

- Standalone operation without external equipment
- Vehicle categorization based on axle count via image recognition
- Accurate detection and image capturing of slow and fast-moving vehicles
- Local storage with strong encryption for standalone operation, even when connection is not available
- Lift & retractable axle detection for accurate tolling
- Extra close-up installation possible (2.5-3m [8.2 ft 9.8 ft])
- Resistance to physical impact and weather
- Dual optics with 3x optical zoom: one for line scan images, one for overview
- 850 nm IR, Bypass filter, 850 nm white mixed LED illumination
- Line scan images in results displaying entire vehicle



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Axle counting of trucks with any length

Vehicle categorization

Standalone with local storage

Vidar Container Camera

for Container Code Recognition





applications













3 years manufacturer's warranty

Laser Trigger-Assisted Recognition of ISO, MOCO, and ILU Codes

Capture Complete Line Scan Images of Vehicles Analysis Capabilites

The Vidar Container Camera is specially developed for container code reading, It supports the tracking of intermodal shipping containers through fast data processing. The camera takes ideal images for reading ISO, MOCO, and ILU codes, regardless of container size and surface. The built-in software processes the codes and transforms them into ready-to-use event packages.

The cameras are protected by IK10 & IP67 shock- and weatherproof housing. With a minimum amount of moving parts, they are vandal-proof, and work in all light and weather conditions.

Thanks to its dual-lens (one for overview and one for close-up image) design, this camera can also perform general CCTV surveillance aside from capturing the codes of passing containers.

Main Highlights

- Precise container code reading by a camera-only system
- Support of EU and global standard containers
- Images containing entire object regardless of length
- Onboard recognition for standalone systems
- Extra close-up installation possible (2.5-3m [8.2 ft 9.8 ft])
- Resistance to physical impact and weather
- Built-in laser for non-intrusive triggering
- 3-9 mm wide lens
- 850 nm white mixed LED illumination, IR+White LED illumination for red characters and/or containers
- Contrasted images of both flat and knurled container



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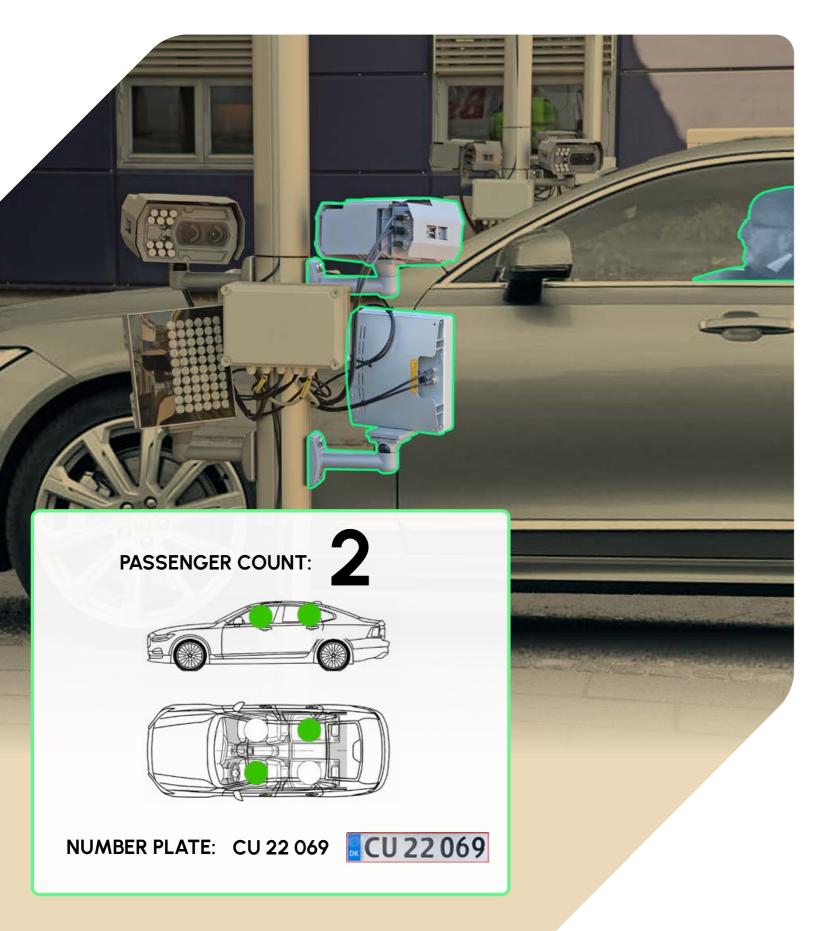
Accurate container reading

Multilane tracking

Global and EU standards

Vidar PAX Camera

for Passenger Counting & Identification















3 years manufacturer's warranty

Perfect Images of Passengers Captured Through Windscreens

Passenger Counting Added with Simple System Integration

Vidar PAX camera is designed to capture high-resolution images suitable for accurate recognition. The camera handles challenges such as high speed, tinted windscreens, darkness, high-glare sunlight, harsh weather, and more.

Run on a server, PAX allows police and other authorities to determine who is inside vehicles with accuracy and speed. This is enabled by extra-wide lenses and synchronized, built-in external high-performance LED illuminators.

Vidar PAX is ideal for system integrators that want to build a complete solution by integrating passenger counting into an ANPR system. To achieve a thorough passenger counting system, especially for accurately counting passengers in rear seats, we offer a preconfigured multi-camera setup.

Main Highlights

- Easy integration and maintenance thanks to modular design
- 24/7 recognition of vehicle occupants with high accuracy
- Strong encryption for data security
- No disturbance to drivers, EU-standard IR
- Resistance to physical impact and weather
- Dual optics: one grayscale for vehicle interior and one color
- 3x optical zoom and IR Bypass filter
- 760 nm LED light for accurate recognition through windscreen in any light conditions
- Dedicated software module for image pairing, run on a server
- Continuous image capturing of passing vehicles at city traffic speed



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Al-based passenger counting

Accuracy thanks to special devices

Strong data security

Lynet ANPR-MMR Camera

for Mobile Vehicle Data Capturing















3 years manufacturer's warranty

An All-In-One Device for Dashboard or Rooftop Installation

The Ultra Small Mobile ANPR/LPR Camera with Onboard Analytics

Lynet is an ultra-small sized mobile ANPR/LPR camera, which has Onboard license plate recognition and Make, Model, Color and Categorization (MMR). Lynet stands out as the market's smallest camera equipped with Onboard analytics, making it an excellent choice for covert installations or instances where the camera needs to fit into confined spaces, such as police lights. Additionally, its remarkably lightweight design adds to its versatility.

It features color imaging - a feature that remains non-standard in many competitor products—coupled with a 5MP resolution and Global Shutter technology, which allows differential speed (between the monitoring and the monitored vehicle) of highway speeds. The camera has runs on PoE+ (super easy to integrate) and has an additional GPIO port. Seamlessly integrates with existing Einar or EnforceBOX installations. It comes in two variations: a fixed optics TELE option and an Automatic Zoom/Focus version to adapt all environments.

Main Highlights

- Stealthy compact design: the smallest on the market, perfect for discreet or embedded installations
- Lightweight advantage: effortless handling without compromising functionality
- Color image capture: superior imaging with 5MP resolution for enhanced visual clarity
- Global shutter technology: enables accurate readings at highway speeds, ensuring optimal performance
- Power over ethernet (PoE+): seamless integration for hassle-free deployment
- Ultra-compact size: unmatched in the market, ideal for covert operations and inconspicuous installations
- Carmen Onboard: license plate recognition, make, model, color, and categorization (MMR) capabilities for comprehensive vehicle identification
- Additional GPIO port: Enhanced flexibility and connectivity for expanded functionality
- Seamless integration: compatible with existing Einar or Enforce BOX installations for a streamlined surveillance system
- Fixed TELE or automatic zoom/focus optics to cover all scenarios

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Ultra-small mobile ANPR camera

Onboard with seamless integration

Lightweight and fits into small spaces

Lynet Speed Camera

for Mobile Speed Measurement

















3 years manufacturer's warranty

Mobile Speed Enforcement Camera with Dual Cameras and a Radar

Coverage of More Lanes On The Move

The Lynet Speed efficiently scans traffic, automatically identifies surrounding vehicles, and reads their license plate, even when mounted on a moving vehicle. The new speed module is capable of providing certified speed information for all traffic participants. Its remarkably compact $size\ makes\ it\ ideal\ for\ integration\ into\ lightbors\ or\ discreet\ use\ within\ undercover\ patrol\ cars.\ Integrating\ it\ into\ a\ complete\ system\ is\ simple\ and$ straightforward.

Previously, when measuring speed on-the-move, confirming the speed of both the measuring vehicle (self-speed) and the subject vehicle (relative speed) and communicating it to the camera was vital to ascertain the actual speed of the target. Lynet Speed streamlines this process without relying on external devices onboard. Featuring 2x5MP resolution, color imaging, and Onboard IR, alongside a METAS-certified radar, it simplifies detection. Moreover, it includes ANPR and MMR functionalities.

Powered by

CARMEN

Main Highlights

- Utilizes the unrivaled Carmen® ANPR + MMR Onboard
- Speed detection up to 320 km/h with METAS-certified radar
- Ultra-compact size with passive cooling
- Multilane coverage: 4 lanes with 2 onboard cameras
- Object tracking and categorization
- Simple to integrate with 3rd party systems
- Easy mounting onto vehicles with a single-cable connection
- Onboard IR to read at 0 lux, dual motorized zoom, iris and auto focus, 5MP, Global Shutter sensor
- IP67-rated durable housing containing the two camera modules, IR and the radar
- GPIO port to synchronize multiple units or to integrate to a lightbar



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Onboard speed measurement camera up to 320 km/h

Recognition of 4 lanes on the move

Accurate tracking, ANPR & MMR

S1 – The Portable Speed

and Enforcement Camera









and red light enforcement







3 years manufacturer's warranty

2-Minute Setup, On-board Traffic **Analytics, Wireless Communication**

Easy-To-Use, Complete Device without Any Infrastructure Requirements.

SI is a portable, all-in-one ANPR camera specially developed for traffic enforcement authorities. It provides certified speed measurement and identifies speeders from a 1.2km (0.75 mi) distance. S1 and its central application (GDS) also detects several other traffic violations.

As soon as evidence of the violation is captured, the file gets encrypted and instantly transmitted to a central server through a secure channel.

You can get the device ready for operation in less than 2 minutes. There is no need for any add ons: ANPR engine, illumination, laser tracker, GPS, Wi-Fi, and 4G modem are included inside the camera's protective casing.

Main Highlights

- Simple 2-minute setup portability, all-in-one device with no need for add-ons
- Autonomous roadside/in-vehicle operation, operation supported by the batteries up to 8 hours
- Certified speed measurement up to 320 km/h (200 mph), laser-based speed measurement up to 250 m
- Complete, court-admissible event data packages
- Live data transfer through 4G/Wi-Fi
- Video-based built-in laser triggers
- Secure data transfer via HTTPS and encrypted data packages
- Dual sensor: the user can choose the right sensor for the given measurement situation
- Automatic brightness control motorized iris and zoom & focus
- Weatherproof design, IP54-compliant, fiberglass-reinforced plastic shell



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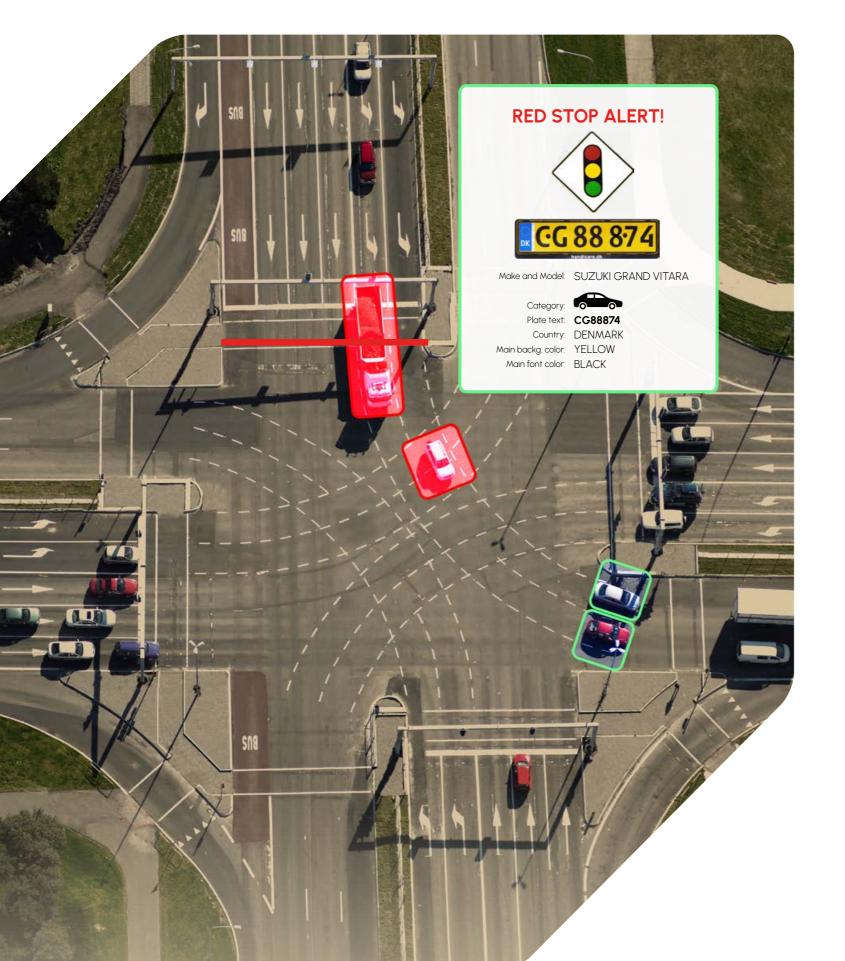
Quick setup & portability

Certified speed measurement

Secure live data transfer

Enforce BOX

for Automatic Detection of Traffic Violations















1 year software update included

bus^{*}lane enforcement monitoring analyt enforcement

Automatic Detection of Traffic Violations, Including Red-light Monitoring and Many More

Automatic Detection of 12 Different Traffic Violations

Enforce BOX can be connected with any standard, even existing 3rd party IP cameras or with any of AR cameras, including Einar or Vidar providing the right stream for traffic violation detection and can use the provided stream to detect the violations. Easy integration, via its well documented API, sample codes are also provided. Enforce BOX is an easily configurable device and can recognize violations parallelly on 6 traffic lanes.

Enforce BOX is an easily configurable device and can recognize violations parallelly even on 6 traffic lanes. 1 Vidar camera is needed per 2 traffic for a given direction, in addition to the standard set of 1 IP (overview) camera, 1 Enforce BOX and 1 router in case of any amount of lanes.

Native integration with our Vidar Smart ANPR cameras, and Enforce BOX enables the capture of license plate details, including nationality, vehicle make, model, color and category, of the vehicles.

Enforce BOX is a compact mini-PC designed to function effectively in various weather conditions, making it suitable for placement within small roadside cabinets.

Main Highlights

- Accurate recognition of 12 distinct traffic violations, including infractions such as running red lights, U-turn, crossing solid lanes, improper usage of emergency lanes usage, making wrong turns, and many more
- Any IP camera with H.264 stream can be used to provide video streams about the status of traffic lights
- In cases where license plate recognition or additional vehicle details must be added, our Vidar Smart ANPR cameras can be seamlessly connected
- Easy to use GUI to support the setup of the traffic violations to be monitored
- · Lightweight design: 1 kg
- · Supports traffic violation detection up to 4 traffic lanes
- GPU-accelerated plate detection via NVIDIA Jetson
- · Internal microSD storage for up to 50.000 events and can be expanded upon customer request
- Images or even video streams can be stored related to defected traffic violations
- Compatible with the GDS Suite central middleware application







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Easy integration & scalability

Traffic violation detection

Accurate recognition on 4 lanes

Tourism

SmartPort

for flow transparency & automation



















Automatic Traffic Monitoring for Cargo Transportation and Passenger Traffic

The Future of Ferry Travel Today

After years of close cooperation with maritime industry experts, the Smart Port product-line has been launched to provide a single-step image analytics solution for RoRo Ferry & intermodal systems that facilitate both wheeled multimodal transportation and passenger traffic. SmartPort is ideal for system integrators that want to build a complete solution. It includes a continuously growing selection of pre-defined set of Adaptive Recognition products (hardware and software components) designed to create complex event capture suitable for SmartPort automation, including:

- Free-flow high speed multi lane traffic pre-gates
- Tourist vehicles entry gates (PAX)
- Freight vehicle OCR pre-gates and entry gates
- RoRo Ferry embarking ramp monitoring

Freeflow systems provide operators with real-time information regarding check-in, lane allocations, boarding and other essential details, further streamlining the process and enhancing the customer experience.

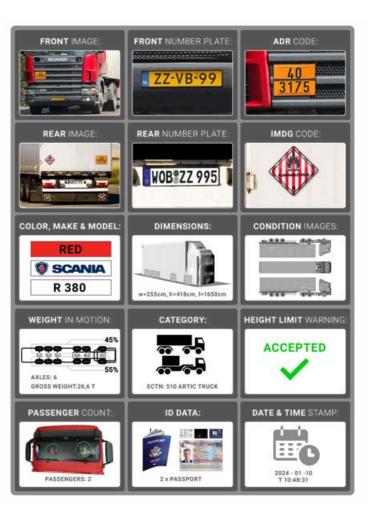
Main Highlights

- High-accuracy recognition and detection 24/7, based on proven AI-led traffic technology
- Reliable equipment supporting transparency with simple system integration possibilities
- Compatibility in case of technology changes without any hassle: when upgrading the equipment, integrators will not need to recode their application thanks to the middleware handling all changes
- Reduced emissions by enabling a smoother flow of traffic and reducing vehicle idling time
- Energy efficiency by automated systems optimize operational procedures
- Creates a more seamless customer experience by reducing
- Reduces need for manual interaction and support automation management at peak traffic times
- Ideal for collaborative sharing of data with multiuser
- Preconfigured sub-systems that are easy to connect to own business systems
- EU-based innovation, proudly supporting local manufacturing

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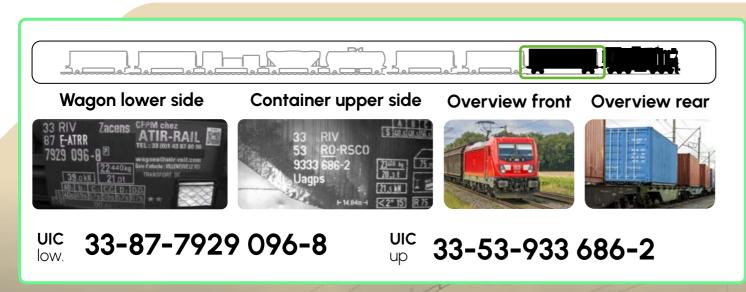
Accurate cargo traffic tracking

Scalability to large sustainable systems

Easy integration & compatibility

SmartRail

for Automated Identification of Railway Vehicles

















software update included

Rail Freight Traffic Monitoring and Vehicle Recognition

SmartRail

State-of-the-art trackside equipment and data collection solution for international railroad operations. This innovative system offers high-level image analytics and aims to automate and digitize security and logistics tasks. It's designed for easy integration by integrators, allowing for a full solution that meets the specific needs of rail network stakeholders, with special regards to:

- · Intermodal terminals
- Freight yards
- Border stations
- High speed (open track) and low speed (shunting) operations

SmartRail is ideal for system integrators that want to build a complete solution. Its components offer ease of implementation, ensuring a high level of system availability and data security. This system automates the recording and management of rolling stock monitoring information, encompassing railroad vehicles, uniquely identifiable loading units, safety hazard signals, and intermodal identifiers. Integrators can leverage these dependable components to effectively build robust solutions.

Main Highlights

- Ensuring transparency and consistency of manual operations related to railway access
- Increased efficiency by automated rail traffic management and data collection, saving human resource demand
- Supports investigation by providing data about physical condition of the trains and track elements in cases of damages, beside detection of discrepancies in the operating schedule or wagon assembly
- · Ideal for collaborative sharing of data with multiuser stakeholders
- Reliable equipment with simple system integration possibilities, supports real-time transparency with easy API integration
- Compatibility in case of technology changes without any hassle: when upgrading the equipment, integrators will not need to recode their application thanks to the middleware handling all changes
- · Real-time monitoring of rail traffic with high-accuracy recognition 24/7
- · Historical traceability of vehicle and loading unit movements
- \cdot Displays information related to the safety and general condition of assets
- · Preconfigured sub-systems easy to connect to own business systems
- Based on proven AI-led traffic technology, manufactured in EU with high quality protection against environment





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Accurate cargo traffic tracking

Scalability to large sustainable systems

Easy integration & compatibility

ANPR Devices for Access Control and Parking

Every Entry Secured, Every Exit Simplified

Our high-end, cutting-edge devices are crafted to exceed the expectations of parking integrators and service providers, offering frictionless, no-gate access control and seamless traffic monitoring. With a focus on security and efficiency, our innovative technology guarantees peace of mind at every entry and streamlines the exit process, optimizing traffic flow for a smoother experience.



Visit our website for more information



Einar ANPR Camera

for Access Control & Parking

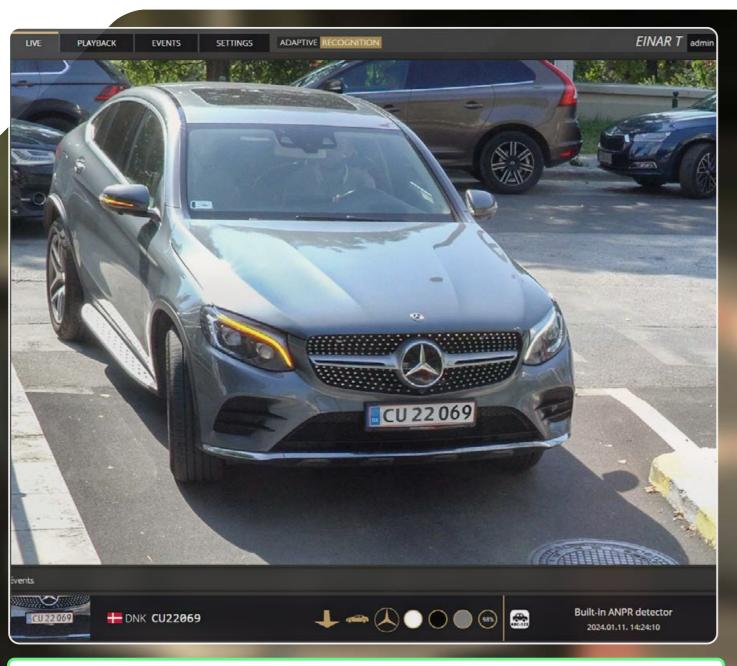




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Easy Install PoE+ Camera with Onboard ANPR and Video Results

Build a Parking System with No Loops

Einar is an easy-to-use yet powerful ANPR camera, an all-in-one tool designed for frictionless, no-gate parking access control and slow traffic monitoring. It is a high-end cutting-edge solution crafted to meet the evolving expectations of parking integrators and service providers. In response to industry trends, Einar stands out as a solid aluminum housing multifunctional marvel, boasting features like quicker reaction times, direction detection flexibility, and motorized zoom. Its capability to cover two lanes simultaneously, diverse installation options, and single-cable simplicity align seamlessly with the demands of modern freeflow and stop&go parking environments. Moreover, Einar focuses on data accuracy with it's built in Carmen® engine, enhancing customer experience and security. As the parking industry diversifies, Einar emerges as a pivotal tool, not just for efficient ANPR but as a strategic asset for unlocking the full potential of parking spaces.









Main Highlights

- Camera, illumination, triggering, ANPR, MMR, list management, and gate control in one device, powered by onboard Carmen®
- Plug & Play design for easy installation and handling, single PoE+ cable operation
- Expandable memory via external microSD card
- Easy integration to VMS, parking, and ERP systems via ONVIF/API
- Seamless built-in vehicle detection- up to 80km/h with direction detection
- Video included in the event package
- Onvif S, T, M compatibility
- ANPR data and event displayed in same image
- Secure data transfer via HTTP, HTTPS, FTP, SFTP
- Playback and search functions, allowlist support

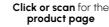




Parking camera with global coverage

Smart, compact, small size

Easy integration & compatibility



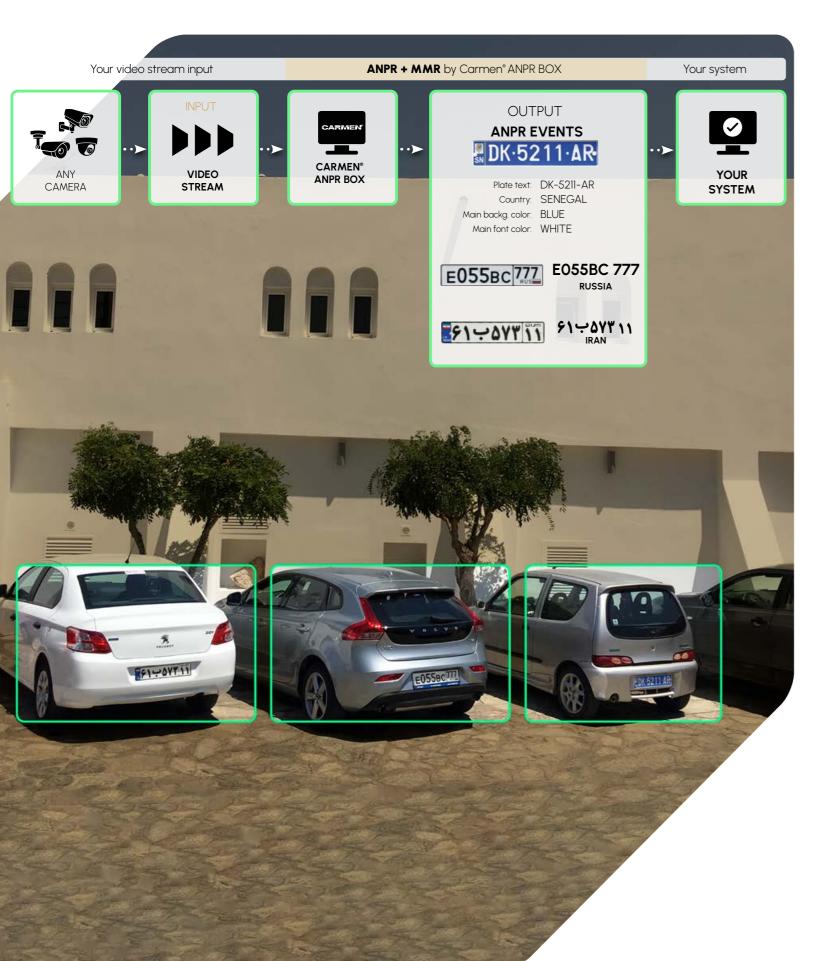




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Carmen® BOX

for Video Streams of Any Source

















The Renowned Performance of Carmen® in a Camera-Independent Device

Add ANPR and MMR Data to Any Video Stream

Based on the NVIDIA® Jetson NanoTM, Carmen® Box is a standalone device that allows you to enhance your IP camera with plate recognition function. Make and model recognition (MMR) is also available via Carmen® Cloud.

Connect it to your PoE-supported camera and your network to get license plate data and event-based video recordings. The easy-to-use interface helps with the proper settings. The IP video stream gets forwarded to your database, completed with ANPR and MMR data.

The device provides accurate vehicle and plate data for traffic analysis. You can create an access control system without reconstruction and downtime using the stream of an overview camera, or monitor traffic using an existing CCTV security system.

Carmen® BOX also natively supports GDS, our database middleware for event storage, analytics, and data visualization.

Main Highlights

- Add on-premise plate recognition to any IP camera
- Video-based, highly accurate detection
- GPU-accelerated plate detection via NVIDIA Jetson
- Plug & Play for easy installation and handling with intuitive graphical interface to handle multiple cameras
- Video included in the event package
- Easy integration to VMS, parking, and ERP systems via
- Easy streaming with direct link
- Onboard and cloud-based plate recognition powered by Carmen®
- ANPR data and event displayed in the same image
- Allowlist support for access control



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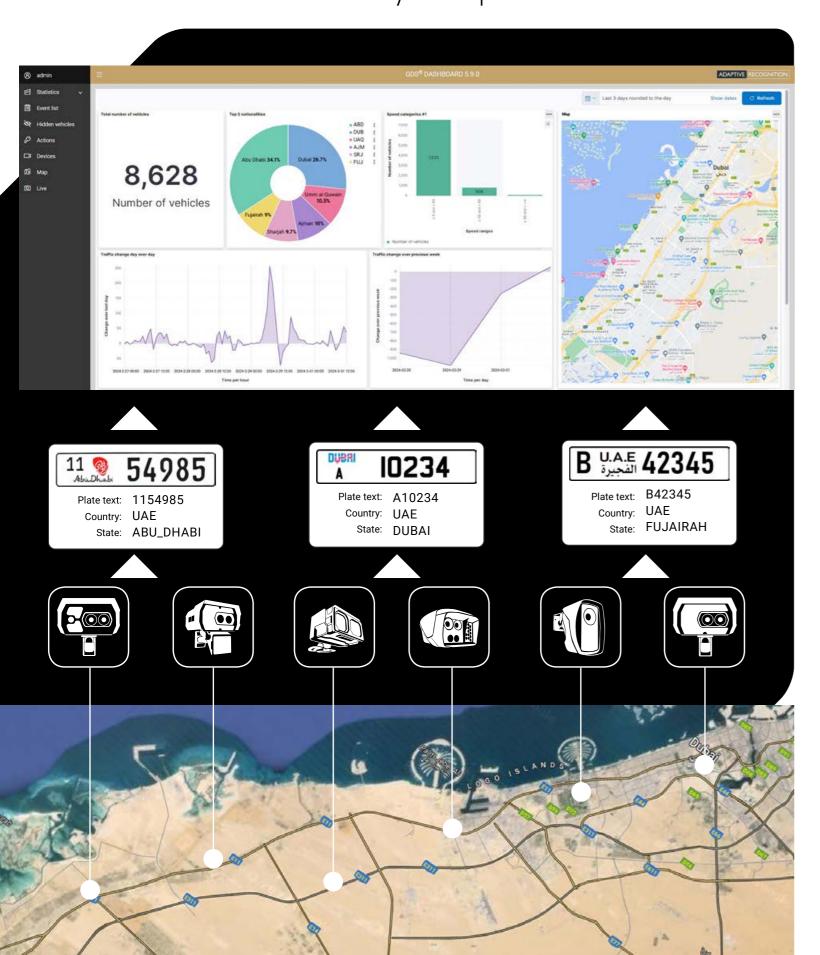
AI-based global ANPR & MMR

Camera-independence

Easy integration & compatibility

GDS Data Server and Middleware

Universal Traffic Data collection and visualization middleware for backend system providers

















Combined Data Server and Middleware

for Data Collection and Visualization

GDS is an optional system component, and a useful tool for the back-end system provider that offers distributed operation and is capable of receiving, encrypting, and retrieving recordings generated at endpoints. System integrators could use it as a unique interface between their application and all the endpoints.

GDS functionalities include redundant storage of event data, basic and complex data queries and notifications — such as allowlists, registration of endpoint devices, status monitoring, etc. — and intuitive data visualization features (heatmaps, filters, statistics).

Data replication between multiple sites of the Production Environment can be also performed by GDS.

GDS is a universal traffic data collection and visualization middleware for backend system providers that comes with an advanced front-end GUI and works out-of-the-box with Adaptive Recognition ANPR cameras.

Being based on the industry-leading ELK stack, GDS is a combination of a database layer, authentication and transaction layer, and a front-end layer in one complete package that is tested end-to-end.

Main Highlights

- Natively integrated with all AR smart camera products, and 3rd party cameras can be added as well
- Installer for Windows and LINUX operating systemDocumented
- OpenAPI is available, SDK samples are available it includes advanced data visualization capabilities and even a map module is added showing the status of cameras the application licence also includes the fully integrated database licence
- Easy data export (PDF, CSV, XLS formats are supported), easy integration to any back-end system
- Native integration and management of the endpoints (Vidar Speed, Traffic Spot, Mobile Spot)
- Rapid search and database operations
- Reports, statistics (BI functions), notifications (email, SMS)
- Users can access and analyze the traffic events using standard browsers
- Health monitoring & MAP view
- Allowlist function



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Click for the



Easy deployment

Query operations, action lists

System independent - works with browsers



ADAPTIVE RECOGNITION

30+ years of experience

About Adaptive Recognition: A Legacy of Innovation, a Passion for Progress

Since our founding in 1991, Adaptive Recognition has been at the forefront of image processing technology, constantly pushing the boundaries of what's possible. Our commitment to innovation has earned us a reputation as a trusted partner for organizations seeking cutting-edge solutions that enhance safety and transform society.

Our legacy of innovation is firmly rooted in our deeply held values, where principles such as honesty, reliability, and openness are the cornerstones of our corporate culture. These values guide our interactions with our partners and customers, fostering trust and long-lasting relationships. It is our mission to empower organizations with innovative image processing technology that transforms the safety of the individual and society as a whole.



Mythical Names, Profound Meanings

Drawn to the enduring power and symbolism of Norse mythology, our company has chosen to embrace its captivating names. These names, deeply rooted in tales of bravery, exploration, and perseverance, embody the spirit of innovation and strength that propels our company forward.

Inspired by the Norse gods and heroes who fearlessly charted new territories, we too aspire to break through boundaries and challenge the established norms. By tapping into the grandeur of Norse mythology, we seek to embody the qualities that have fueled progress and creativity throughout history.

The names we have chosen are not mere labels; they are a reflection of our values and unwavering commitment to excellence. As we embark on our journey, we carry with us the spirit of Norse mythology, drawing inspiration from its timeless stories of bravery, determination, and unwavering resolve.

Our Product Portfolio

At the forefront of our product portfolio lies Carmen[®], a globally renowned and highly versatile automatic license plate recognition (ALPR/ANPR/LPR) software. Carmen[®] seamlessly adapts to diverse needs, available as a software library, Plug & Play application, or cloud-based software as a service (SaaS).

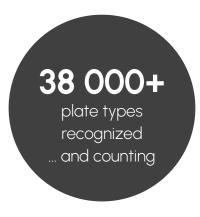
Complementing our software expertise, we meticulously design and develop ANPR cameras and other hardware devices specifically tailored for access control, traffic monitoring, industrial code reading, and law enforcement applications. This allows our solution provider clients to source high-quality software and hardware components for their projects from a single, trusted vendor.

Addressing the growing demand for secure identity verification, we offer innovative document readers and scanners that streamline and enhance authentication and data entry processes. Our solutions empower organizations to expedite identity verification with unparalleled accuracy and efficiency.









Application Areas

Our cutting-edge image processing technology seamlessly integrates into the diverse applications of our global clientele.

From traffic and security systems to identity verification and industrial code reading, our solutions play a pivotal role in the day-to-day lives of countless individuals worldwide. Our technology empowers travelers to effortlessly cross borders, motorists to navigate roads safely, and empowers organizations to verify identities securely. Whether it's helping motorists to navigate roads or facilitating efficient document processing, our solutions touch upon the daily routines that form the fabric of our society.

Our commitment to innovation and excellence has solidified our position as a global leader in image processing technology. We are driven by the passion to create solutions that make a tangible difference in the world, enabling organizations and individuals to operate with greater efficiency, security, and ease.



enforcement



analytics







enforcement







monitoring









Our Clients

Our client base mainly consists of system integrators working on a wide range of private and governmental projects of all sizes. We pride ourselves on fostering long-lasting partnerships with our clients, serving as trusted advisors and delivering tailored solutions that exceed expectations. Our commitment to customer satisfaction has solidified our position as a global leader in image processing technology.

Beyond system components, we also create standalone products, such as user-friendly Plug & Play versions of our advanced software and cameras, empowering organizations to seamlessly integrate our technology into their unique

A global network of organizations relies on our technology, including:



















































Our Corporate Policy & Mission

We leverage 30+ years of hands-on market and technology experience to answer our customers' needs and fulfill our mission of transforming the safety of the individual and society.

Our vertically integrated operations encompass the entire product lifecycle, from research and development to design, manufacturing, and support, ensuring seamless collaboration and unparalleled quality control.

Committed to sustainable practices, our hardware is produced and assembled at our own EU-based manufacturing facility, employing cutting-edge automated processes that meet ISO standards and minimize environmental impact.

200 000+
installations based on
our OCR products
worldwide









ADAPTIVE RECOGNITION

What Makes Us Different

A team of in-house developers and engineers is in charge of keeping our software products ahead of the constant evolution of the worldwide license plate and identity document landscape. We focus on constant innovation to keep our leader position in these highly specialized market segments.

Since we own the entire product lifecycle from vision through production to support, we can quickly and efficiently respond to special requests and provide knowledgeable and dependable support to our customers through a global partner and support network. The most important measure of our success is our partners' and clients' success.

Our plate recognition software stands out by providing unparalleled worldwide coverage of international license plates.

Carmen[®] is the only software on the global market that can reliably handle special plate types of specific geographies.

Moreover, we are proud to offer ID reader devices with an unprecedented set of features such as Adaptive Light Control for filtering out disturbing interferences, oblique light for displaying tactile elements, and face compare.

Our cameras boast incredible performance while offering high-tech features such as built-in laser-triggering and full remote control.

"Swift adaptability to changes, common sense, and teamwork are the three pillars of success in an industry as fast-moving as image recognition."

> Laszlo Kis CEO





Find out more about our company and the milestones that have defined our story.



ADAPTIVE RECOGNITION

Our commitment to corporate sustainability



Leading The Way

Adaptive Recognition is committed to leveraging technology for positive change, aligning our operations with environmental stewardship, social responsibility, and economic prosperity.

Sustainability is ingrained in our DNA, encompassing more than just environmental impact. We champion responsible business practices, promote diversity, equity, and inclusion, and empower individuals to reach their full potential.

Environmentally, we prioritize energy efficiency and sustainable practices, minimizing our footprint on the planet.

Socially, we foster an inclusive workplace that embraces diversity, equity, and inclusion, allowing individuals to thrive and contribute their unique perspectives. In business, we uphold the highest standards of integrity, promoting transparency, accountability, and ethical behavior to ensure a fair and sustainable environment for all.

For a detailed overview of our commitment to ethical and responsible conduct, please refer to our Code of Conduct, available online.

You can also access our Supplier Code of Conduct online.

















Contact

For general and product inquiries, the simplest way to get in touch with us is by filling in the form on our homepage adaptiverecognition.com.

Alternatively, contact us through one of our regional offices.



General contact

Our Offices

Adaptive Recognition International



Alkotas utca 41 Budapest 1123, HUNGARY Phone: +36 1 201 9650

Adaptive Recognition Nordic



Winghouse, Ørestads Boulevard 73 København 2300, DENMARK Phone: +45 31 100 300

Adaptive Recognition America



28059 US Highway 19 North Suite 203 Clearwater FL 33761, USA Phone: +1 727 724 4219

Adaptive Recognition Singapore



1 Toa Payoh Lorong 2, #05-05 Braddell House Singapore 319637, SINGAPORE Phone: +65 62 705 224

Adaptive Recognition Hungary



Alkotas utca 39/a Budapest 1123, HUNGARY Phone: +36 70 393 0625

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AR Product Information Center

Find all product-related information from technical datasheets, through installation guides to user manuals, how-to videos, and more.



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ADAPTIVE RECOGNITION

www.adaptiverecognition.com