

Nedap vehicle identification solutions

We help security professionals
with vehicle access control



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We are Nedap Identification Systems

+30 years'

experience in vehicle
access control



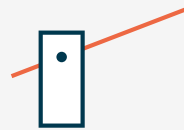
+10 million

vehicles authorized



+100.000

gates protected



+15

languages for support



We already facilitate more than
100,000 gates with our long-
range vehicle identification
solutions.



Our story

The first point of protection

Organizations are facing unprecedented challenges when it comes to securing their sites. At Nedap, we believe safety starts at gated vehicle entrances. We specialize in automatic vehicle identification and have led the way for more than 30 years. We're here to help you address every vehicle access control challenge and find the best solution for each situation.

Automatic, long-range vehicle & driver identification

Our mission is to empower system integrators to offer the right automatic long-range identification solutions to maximise traffic flow at regulated vehicle access points. We do this by providing technology that enables frictionless vehicle entry and exit processes; gate access control solutions that automatically identify a vehicle and its driver at the same time, from a long distance. This eradicates congestion in the surrounding area and gives visitors and employees a smooth, welcoming experience. All while maintaining high levels of security, compliance and traceability.



A name you can trust

In-depth knowledge, continuous innovation and decades of experience have contributed to our solid reputation. We offer a large, varied range of reliable, high-quality access control brands. And this, combined with easy availability of products and expert support, makes us a trusted partner for our extensive network of system integrators.

People first, then technology

Our philosophy for developing technology is to always put people first. So we can ensure freedom in today's fast-paced world, while also ensuring safety and security. It's why businesses including Coca Cola, Vodafone, Cairo International Airport and many more trust us to provide protection at the gate for their people, buildings and assets.

Dutch origin & worldwide sales network

Nedap Identification Systems is part of Nedap N.V.. We have headquarters in the Netherlands, and offices in the United States, Dubai and Singapore. And, with our skilled business partner network spread across the globe, we ensure the best commercial and technical support is available in your local market.

Technology For Life

At Nedap we are passionate about technology and how it can help people become happier and more successful in their professional lives. Life teaches us a lot about people and that's what inspires us to create high impact, hard and software solutions that have true value. That's what we call: Technology for Life. It is our purpose and drives us in everything we do. To apply technology in a way that it has a tangible positive impact on people's professional lives, requires a people-centred approach that respects people and our planet.

Our philosophy for developing technology is to always put people first. So we can ensure freedom in today's fast-paced world with Nedap Vehicle Access Control solutions, while also ensuring safety and security.

Years of experience

94

Revenue

242^M

Employees

1.000⁺

5

Meet Nedap



Our approach

Is your challenge to increase security, enable tracking, or maximize traffic flow at vehicle access points? Nedap offers you the right automatic long-range identification solutions to secure access and to maximize traffic flow at regulated vehicle access points. We do this by providing RFID, UHF, ANPR and mobile access solutions that enables secure and frictionless vehicle entry and exit processes. Find out which solutions fit your gate challenge and application.

Explore our technologies and partners

With the growing concerns of congestion at entrances, the need to quickly and easily identify all users while ensuring the appropriate security level has become paramount. Additionally, preventing bottlenecks during peak periods of traffic and accurately tracking vehicles on-site are critical tasks to enhance operational efficiency.

At Nedap, we understand the complexities involved in finding the right solution for your specific gate, users, and environment. The combination of reliable high-quality products, in-depth knowledge, decades of experience and the broad integration network with Electronic Access Control brands makes Nedap a trusted partner.

The logo for Tyco, featuring the word "tyco" in a bold, blue, lowercase sans-serif font.The logo for Gallagher, featuring a stylized orange gear icon to the left of the word "GALLAGHER" in a bold, orange, uppercase sans-serif font.The logo for Honeywell, featuring the word "Honeywell" in a bold, red, uppercase sans-serif font.The logo for Dormakaba, featuring the word "dormakaba" in a blue, lowercase sans-serif font with a small red and white flag icon to the right.The logo for Johnson Controls, featuring the words "Johnson Controls" in a blue, uppercase sans-serif font next to a stylized blue and green globe icon.The logo for AEOS, featuring a stylized orange star icon to the left of the word "AEOS" in a bold, blue, uppercase sans-serif font.

Discover our product portfolio

Find out our portfolio of technologies for automatic long-range identification and our extensive partner network that enable security professionals to implement optimal vehicle access control processes.



Our solutions

Semi-active RFID

RFID readers can be used to identify vehicles and drivers quickly and automatically from a distance. Semi-active RFID is a technology that operates with very little interference or environmental noise. The identifiers are battery powered and with that they send strong signals over a long range setting the bar for accurate and reliable identification.

Nedap's TRANSIT range of readers and tags are highly accurate and ideal for situations where security and efficiency are crucial. Next to vehicle identification tags the range also covers heavy duty tags for challenging situations and boosters for simultaneous identification of vehicle and driver ID. Therefore, it provides high levels of security, even in harsh environments, and is well-suited to long-range identification.

Highly secure vehicle access is often applied at: airports, seaports, mines, military bases and factories.

“The TRANSIT system enabled highly accurate detection on various mining vehicles, including haul trucks, rigid dump trucks, and specialized mining vehicles. Its implementation supported a large-scale rollout with hundreds of readers and thousands of tags in use.”



TRANSIT Ultimate

TRANSIT Ultimate is a superior, long-range RFID reader. It identifies vehicles and drivers securely, simultaneously and in challenging conditions.



Semi-active RFID



up to 15 meters (50 ft)



200 km/h



Advantages

- ✓ Simultaneous vehicle and driver identification
- ✓ Sophisticated authentication of secure tags
- ✓ Supports OSDP v2, including secure channel protocol
- ✓ Long, adjustable read range (up to 15 meters*)
- ✓ Easy integration with all leading access control platforms

Extremely robust reader

TRANSIT Ultimate is an incredibly robust RFID reader that retains peak performance, even in harsh environments. And has the exceptional power to identify both vehicles and drivers simultaneously – even when they're up to 15 meters* away and travelling at speeds of up to 200km/h.

Based on semi-active RFID technology, TRANSIT Ultimate reads vertically and horizontally, and has an adjustable read range. So there's lots of flexibility to position it in the best place for the situation.

Perfect solution for highly secured applications

This high-end reader is designed to perform well in high security applications, demanding vehicular access control applications and under harsh environmental conditions.

Typical applications include: highly secured vehicle access at airports, seaports, mines, military bases and other installations where vehicles must be assigned to specific drivers.

**When used with Window Button. The maximum read range depends on the identifier type, the installation and the environment.*

Semi-active RFID solutions

TRANSIT Ultimate

Related products



Booster

The Booster is a vehicle and driver identification tag. This patented solution ensures that a vehicle can only get access to a secured area when driven by an authorized driver. The Booster is used in combination with (existing) personal access credentials. Based on semi-active RFID technology (2,45 GHz), the Booster is identified up to 12 meters (40 feet) with the TRANSIT Ultimate reader.



Window Tag Ultimate

The Window Tag Ultimate is a long-range vehicle identification tag. Based on semi-active RFID technology (2,45 GHz), the Window Tag Ultimate is identified at distances up to 10 meters (33 feet) with Nedap's TRANSIT Ultimate reader.



Compact Tag

The Compact Tag is a credit card sized tag that enables hands-free identification of people or vehicles. Based on semi-active RFID technology (2,45 GHz), the Compact Tag is identified at distances up to 7 meters (23 feet) with Nedap's TRANSIT Ultimate reader.



Heavy Duty Tag ISO

The Heavy Duty Tag ISO is an ATEX-certified vehicle identification tag. Based on semi-active RFID technology (2,45 GHz), the Heavy Duty Tag ISO is identified at distances up to 20 meters (66 feet) with Nedap's TRANSIT Ultimate reader. As the Heavy Duty Tag ISO is weatherproof, it is ideal for applications that require reliable long-range identification in harsh environmental conditions.



Window Button

The Window Button is a long-range vehicle identification tag. Based on semi-active RFID technology (2,45 GHz), the Window Button is identified at distances up to 15 meters (50 feet) with Nedap's TRANSIT Ultimate reader.

Semi-active RFID solutions

Customer stories

Over 1 billion litres of fuel and oils annually authorised by Nedap at Australian mines

Every year over 1 billion litres of fuel consumption is registered and recorded in Australia's largest mining operations utilising Nedap's solution for long-range vehicle identification. FluidIntel's AdaptFMS is installed on 50 mine sites, including BHP Billiton, Rio Tinto, BMA Coal, AngloAmerican, Newcrest, Vale and Xstrata. AdaptFMS is the world's leading FMS for hydrocarbon management on mine sites. Nedap's TRANSIT was selected based on proven reliability in rugged and hazardous environments that the mining industry is known for.

[READ MORE →](#)



Optimized vehicle operations at Coca-Cola

The Spanish company Informática del Este developed a solution to optimize logistics through vehicle access control for Coca Cola in Sevilla. The system provides an access control tool for all vehicle related groups that need access to the industrial plant. Simultaneously, the system also closely monitors the process of loading and unloading to optimize the transit of goods vehicles on site. [READ MORE →](#)



Passive UHF

By using passive RFID technology, vehicles and drivers can be quickly identified via a passive UHF sticker tag, a hard tag or a card. Tags within range of the reader respond powered by the incoming signal itself. It's a cost-effective way to increase security while avoiding congestion at gated vehicle entrances and exits.

Nedap has a broad product range of passive UHF readers and tags, called uPASS. There are different readers available developed to match a variety of gate layouts and use cases. With a long, adjustable read range, it's easy to place these readers in a suitable location. uPASS tags can be positioned in or on vehicles for secure, automatic identification. With these identification systems, you help to keep traffic moving with a smooth welcoming experience.

Applications where passive RFID is often used are: industrial sites, logistic depots, parking facilities, gated communities and campuses.

“The uPASS long-range reader has allowed a quicker throughput through the barrier, whilst improving security on vehicle access. We are extremely happy with the positive impact the product has had on our client.”

Mustafe Omar, Business Development Manager at Newpark Solutions



uPASS Go

uPASS Go is a next generation long-range UHF RFID reader. It enables reliable vehicle identification and streamlines access to car parks and more.



Passive UHF RFID



up to 10 meters (33 ft)



Advantages

- ✓ Automatic vehicle identification
- ✓ Cost-efficient reader based on UHF RFID technology
- ✓ Adjustable read range up to 10 meters* (33 ft)
- ✓ Simple integration with all leading access control platforms
- ✓ Complies with EPC global Gen 2 directive for secure communication and tag authentication
- ✓ Supports OSDP v2, including secure channel protocol
- ✓ Easy installation and maintenance
- ✓ Robust reader for outdoor use

Cost-effective UHF RFID reader

uPASS Go is the next generation reader in long-range vehicle identification technology, incorporating state-of-the-art UHF RFID capabilities to ensure a seamless access control experience. This advanced system is engineered to provide fast and secure vehicle identification from

distances of up to 10 meters* (33 feet). It is the perfect solution for efficiently managing vehicle entry in car parks, gated communities, and staff parking zones.

Convenient vehicle access

Designed with cost-effectiveness, sustainability, and user convenience in mind, uPASS Go effortlessly integrates with your existing access control system. It supports industry-standard interfaces like Wiegand and OSDP, alongside a broad spectrum of communication protocols including TCP-IP. Its fast and accurate remote tag reading capabilities ensure regulated access and bolster security, while also managing traffic flow to maintain smooth operations during busy times.

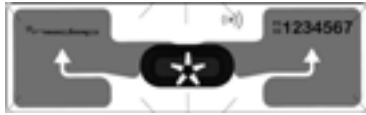
Furthermore, its circular polarization technology allows for tag orientation freedom, improving driver convenience and facilitating efficient vehicle throughput in high-traffic scenarios.

** In combination with UHF Windshield Tag. The maximum read range depends on reader type, the installation and the environment.*

Passive UHF solutions

uPASS Go

Related products



UHF Exterior Tag

The UHF Exterior Tag is a vehicle identification tag that is mounted on the vehicle's exterior and offers cost-effective, long-range identification for access control and parking applications. Based on passive UHF technology (\pm 900 MHz), the UHF Exterior Tag can be identified up to 12m (40 ft) by uPASS Target or up to 8m (26 ft) by uPASS Go. The tag does not contain a battery and is maintenance free.



UHF Heavy Duty Tag

The UHF Heavy Duty Tag is a vehicle identification tag with a robust design for long-term, outdoor use in industrial environments. It's a cost-effective option when a tag needs mounting onto a vehicle's exterior. Based on passive UHF technology (\pm 900 MHz), the UHF Heavy Duty Tag can be identified up to 18 meters (60 ft) by uPASS Target or up to 12 meters (40 ft) by uPASS Go. The tag doesn't contain a battery and is maintenance free.



UHF Windshield Tag

The UHF Windshield Tag is a vehicle identification tag. It offers cost effective long-range identification for parking applications. Based on passive UHF technology (\pm 900 MHz), the UHF Windshield Tag is identified up to 15 meters (50 ft) with uPASS Target or up to 10 meters (33 ft) by uPASS Go. The tag does not contain a battery and is maintenance free.

uPASS Target

uPASS Target is a long-range UHF RFID reader optimized for challenging or demanding gate layouts.



Passive UHF RFID



up to 15 meters (50 ft)



Advantages

- ✓ Automatic vehicle identification for challenging gate layouts
- ✓ Superior read range up to 15m* (50 ft)
- ✓ Adjustable read range with uPASS Antenna
- ✓ Simple integration with all leading access control platforms
- ✓ Complies with EPC global Gen 2 directive for secure communication and tag authentication
- ✓ Supports OSDP v2, including secure channel protocol
- ✓ Power over Ethernet (PoE): Simplifies installation with a single-cable setup

For challenging gate layouts

uPASS Target is a long-range UHF RFID reader specifically designed for complex or demanding gate layouts. It is particularly suited for heavy

vehicle environments such as industrial sites and logistics depots, using (EPC Gen2 V2) tags to ensure that only authorized vehicles and drivers can access the facility. This stringent control optimizes site security and traffic flow. uPASS Target features an adjustable read range up to 15 meters (50 feet), enabling quick and automatic identification that allows vehicles to pass without stopping.

uPASS Antenna

You can increase the reading range even further by positioning our uPASS Antenna under or next to a uPASS Target reader. Which is useful if you need a reader in an awkward position or have a situation demanding both vehicle entry and exit lanes, for example.

** In combination with UHF Windshield Tag. The maximum read range depends on reader type, the installation and the environment.*

Passive UHF solutions

uPASS Target

Related products



UHF Exterior Tag

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UHF Windshield Tag

The UHF Windshield Tag is a vehicle identification tag. It offers cost effective long-range identification for parking applications. Based on passive UHF technology (± 900 MHz), the UHF Windshield Tag is identified up to 15 meters (50 ft) with uPASS Target or up to 10 meters (33 ft) by uPASS Go. The tag does not contain a battery and is maintenance free.



uPASS Target Antenna

The uPASS Target Antenna is an external antenna for the uPASS Target reader. Based on passive UHF RFID technology (± 900 MHz), the uPASS Target reader identifies vehicles and people up to 15 meters* (50 feet). In combination with the uPASS Target Antenna, the read-range of the reader can be extended for a wider scope.

Customer stories

Nedap and Spica provide secure vehicle access control and an easy registration process at Iskra Mehanizmi

The Slovenian company Iskra Mehanizmi delivers solutions in the fields of mechatronics, fine mechanics, electromechanics and electronics to customers worldwide. This company values the security and user experience of employees and visitors. Due to problems with the current Time and Attendance and Access Control systems, Iskra Mehanizmi was looking for new solutions. Nedap's long-range UHF RFID solutions and ANPR solutions were selected and integrated with Spica's solutions to provide secure vehicle access control for employees and visitors. [READ MORE →](#)



“Our long-term cooperation with Nedap is based good experiences in the field, adequate support and high quality of their RFID portfolio.”



License plate recognition

License Plate Recognition (LPR) or Automatic Number Plate Recognition (ANPR) is a technology that uses optical character recognition to identify vehicle license plates. It's a convenient solution for granting (temporary) vehicle access for frequent users or visitors without the need to distribute tags.

To ensure accurate and fast identification of number plates, Nedap offers specialized ANPR Lumo cameras that provide enhanced security and smoother traffic flow at gates. This improves safety for both employees and visitors while reducing wait times and keeping costs under control. The ANPR Lumo camera can be used in reader mode as part of a security system or as a stand-alone solution for convenient access.

Applications where LPR is often used are: automatic toll roads, airports and various parking areas.

“We like the web-based software and the intelligent OCR that ANPR Lumo has to allow integrations with third parties without having to pay fees for additional licenses.”

Manager Technical & Development Department of ASPI Systems



License plate recognition solutions

ANPR Lumo

ANPR Lumo is an all-in-one, advanced license plate camera for fast vehicle identification and access control with on board image processing.



License plate recognition



2-10m (6.5-33ft)



Advantages

- ✓ Superior read range of up to 10m (33ft)
- ✓ High accuracy during day, night, and in sunny conditions
- ✓ Unlimited recognition of licencing countries and libraries
- ✓ Integrates easily with third-party software
- ✓ Supports Wiegand, RS485 (OSDP v2) and TCP/IP
- ✓ Easy plug and play set up
- ✓ No software server to set up
- ✓ No annual licence fee

License plate recognition

ANPR Lumo is a powerful option for locations where vehicles need temporary or incidental access. It's particularly useful in situations such as visitor parking or automatic toll collection where it may be impractical to issue an identifier in advance.

As an all-in-one license-plate camera, ANPR Lumo includes embedded software, plus an analyzer and IR illuminator. And, with a long-read range of 2-10m (6.5-33ft), this advanced camera ensures fast recognition of vehicles to keep traffic flowing.

High accuracy

Deep learning algorithms give ANPR Lumo high accuracy in regions with common license plate formats, like Europe. And even where license plates aren't standardized in locations such as the USA and Pacific region.

Thanks to its open platform, ANPR Lumo integrates seamlessly with third-party software systems, so it's easy to make the most of the data it logs.

License plate recognition solutions

Customer stories

Prologis Mexico chooses Nedap's ANPR Lumo for admission to their industrial parks

Prologis has the largest platform and is the leading provider of industrial warehouses and distribution centers in Mexico. Prologis was seeking a way to update employee access control in some of their industrial parks near Mexico City. With the successful implementation of Nedap's ANPR Lumo license plate reader, vehicles are now identified from a long range with ease and without friction for both employees and visitors.

[READ MORE →](#)



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Mobile access control for visitors and employees with Nedap's NVITE and SpotUs.space app

The COVID-19 pandemic has ensured that companies organize and use their spaces in office buildings flexibly and efficiently. For the modern office complex U-Center, Forte Partners was looking for a touchless access control solution that offers visitors and employees a high and secure access experience. Helinick and Nedap Identification Systems joined forces for visitor management, mobile access and parking access. By integrating Helinick's software platform SpotUs with Nedap's NVITE reader, employees and visitors can access entrances, turnstiles and elevators by using a mobile app or scanning a QR code. The integration with Nedap's ANPR Lumo grants access to the building's parking garage. These solutions allow U-Center to deliver the high level of service, security and flexibility they want for visitors and employees. [READ MORE →](#)



Mobile and cards

Frequent users and visitors can be identified in a secure and convenient manner using RFID cards or mobile credentials. These kind of technologies are typically used for visitor and driver access at entrance gates, turnstiles or building access. Multi-technology readers can read different tags and credentials to increase convenience and operational efficiency. Nedap offers a NVITE solution which allows the use of a variety of identifiers: Bluetooth Low Energy (BLE), Near-field Communication (NFC), Radio Frequency Identification (RFID) and QR codes, Smartcards and proximity cards.

Multi-technology readers are often applied in: pre-registered visitor applications, multi-tenant environments and for vehicle access for staff at office buildings.

“Nedap and EPM have worked together to meet every one of our requirements. We now have a smart, centralized system with each element integrated in a streamlined way. It’s enabling much closer, more efficient management of access and operations. And we feel reassured that we have the option to easily make changes and additions, as and when we need to in the future.”

Mr. Walid Nsouli, Division Director, ICT & Smart Services at ADEK



NVITE

NVITE is a multi-technology reader for secure, convenient access to perimeter gates, car parks and buildings.



Mobile and smartcards



Supports QR, RFID, BLE, NFC



Advantages

- ✓ Independent mobile access platform
- ✓ Ideal for visitor and employee access management
- ✓ Identifies: QR, RFID, smartcards, proximity cards, BLE, NFC
- ✓ Easy integration with your existing access control system
- ✓ Simple implementation with third-party apps
- ✓ Supports Wiegand, OSDP and Mobile ID protocol

Convenient for visitors and frequent users

NVITE is an advanced, multi-technology reader that enables vehicle identification and visitor management for multiple user groups, as it reads a wide variety of technologies and identifiers. This includes BLE, NFC, RFID, QR codes, smartcards, proximity cards and smartphone credentials. Which makes it a versatile, cost-effective option for visitor management, and vehicle access control

for frequent users such as employees.

NVITE's flexibility also facilitates a smooth transition to mobile access technology and contactless identification. Employees can continue using proximity cards or smartcards, for example, while virtual smartphone credentials are being introduced. So that, during the transition (or indefinitely), they can choose the most convenient identifier for them, each time they arrive.

Seamless third-party integration

An independent platform, NVITE supports various communication interfaces, such as Wiegand and Open Supervised Device Protocol (OSDP), for seamless third-party integration. Mobile credentials can be produced with one of Nedap's partners, or a bespoke app can be created using Nedap's mobile ID Protocol.

Customer stories

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Nedap's identification readers upgrade access control process at ADEK

The main role of Abu Dhabi Department of Education and Knowledge (ADEK) is to develop the education system in Abu Dhabi and promote a culture of creativity, sustainability and excellence. To provide a more convenient and touchless access experience for employees, they were looking for a flexible, future-proof technology that would higher the security level. Nedap's (vehicle) identification solutions are implemented to provide a welcoming experience for employees. [READ MORE →](#)



Industries

Nedap's automatic vehicle identification solutions are installed all over the world to identify vehicles and their drivers. Because every industry has its own specific characteristics and challenges, it is important to choose a solution that fits the industry. Below you will find an overview of industries where our solutions fits perfectly.



Public services

Locations such as government offices, police stations, schools and universities share a common challenge. They need high levels of security, but also need to provide easy, welcoming access to authorised people and their vehicles – who often arrive and leave in large volumes at peak times.



Logistics

As the growth of ecommerce fuels the logistics industry, depots and other facilities in the delivery chain are becoming ever busier. And sites are attracting increasingly more vehicles from a wide range of companies. Which makes managing traffic flow and ensuring security and safety even more complex.



Business premises

To ensure safety and security for an office building and those using it, protection needs to begin at the perimeter gate or car park entrance. And, as people tend to come and go at similar times, traffic management is important to prevent frustrating bottlenecks at exits and entrances.



Industrial sites

Whether an industrial site involves the supply of utilities, or its focus is on manufacturing, there's usually a range of potential dangers for visitors and employees. Many industrial sites also require high levels of security because of threats such as terrorism, theft or explosion. So effective protection needs to begin at the entrance gate, alongside efficient traffic management.

Industries



Mining

The mining industry is faced with safeguarding employees in harsh, dangerous environments that often involve heavy machinery, complex logistics and sites in remote locations. It's vital that only authorized vehicles and drivers can enter a site and the appropriate areas within it. But, as profitability must be maintained, this must be done cost effectively and without affecting productivity.



Gated communities

Gated communities can range from compounds of rented apartments to supported housing developments for elderly people and entire neighborhoods of high-value mansions. But all have one thing in common – the complexity of allowing convenient access for residents, visitors and services, while maintaining security.



Airports

As airports must comply with increasingly strict safety and security policies and regulations, security managers' jobs get evermore challenging. And this is heightened by the fact that airports typically consist of several zones across a vast site and are visited by high volumes of people. Reliable access control is essential, so only authorised vehicles and drivers have automatic access at gates, and smooth traffic flow is ensured.



Ports

As hubs for both freight and passenger transport, ports are crucial to a country's economy. And, as critical border-control points, they help to preserve regional, national and international security. Which means automatic access control is vital to guarantee safety and security, will also enabling the efficient flow of people and vehicles that are authorized to enter.

Let's go!

Whether you're looking for meeting opportunities to discuss your gate challenge, help you select the right products, need technical training or support to get the most out of our systems, or want to explore integration options into your existing platforms, our experienced team of experts are at your service!

Let's build up together

That's why we are committed to delivering personalized solutions that perfectly align with your requirements. Whether you seek specific product information, technical training, support, integration possibilities, or simply wish to schedule a meeting, we are dedicated to understanding your needs in the best way possible.

Take the next step with us! We invite you to take control and select how we can assist you by filling out the form on our [landing page](#). By providing us with this valuable information, we can easily connect you with the expert from Nedap who will promptly reach out to you.

Meet our team and offices

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