



Vehicle Access, Solved.



See long-range
vehicle identification
in action.

NTC-AVI-V1.0

Where Long-Range Vehicle Identification Fits

Across the UK and Ireland, Nedap technology, delivered and supported by Nortech, is in use at:

Logistics & Distribution

p.04

- ▶ Distribution centres and fulfilment yards
- ▶ Cross-docking facilities
- ▶ 3PL operations
- ▶ Cold-chain and pharma logistics
- ▶ Last-mile delivery hubs
- ▶ Parcel and courier yards

Ports & Marine Terminals

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- ▶ Sea ports and marine terminals
- ▶ Inland container ports

Data Centres & Hyperscale

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- ▶ Hyperscale data centres
- ▶ Enterprise data centre estates
- ▶ Colocation facilities
- ▶ Edge data sites

Airports

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- ▶ Landside staff parking
- ▶ Airside service vehicle access
- ▶ Cargo & freight gates
- ▶ VIP & private aviation parking

CNI, Utilities & Energy

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- ▶ Power generation and transmission
- ▶ Water treatment and distribution
- ▶ Gas processing and storage
- ▶ Telecoms and broadcasting
- ▶ Nuclear and high-criticality sites
- ▶ Oil and gas operations
- ▶ Renewable energy estates

Manufacturing & Industrial

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- ▶ Automotive plants and supplier parks
- ▶ Food and beverage production
- ▶ Pharmaceuticals and life sciences
- ▶ Heavy industry and process plants
- ▶ Aerospace and defence manufacturing
- ▶ Construction and property development sites

Bus & Rail Depots

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- ▶ Bus depots and rail depots
- ▶ Rail freight yards and intermodal terminals
- ▶ Bus-only access corridors
- ▶ Vehicle test centres and DVLA sites

Weighbridges & Bulk Material Sites

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- ▶ Material recovery facilities
- ▶ Recycling centres and household waste sites
- ▶ Skip and bin transfer stations
- ▶ Quarries and aggregates sites
- ▶ Weighbridge operations

Defence & Government

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- ▶ Military bases and training establishments
- ▶ Government department estates
- ▶ Police and emergency services HQs
- ▶ High-secure data and intelligence sites

Healthcare & Emergency

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- ▶ NHS trust acute hospital sites
- ▶ Ambulance service regional HQs
- ▶ Private hospital estates
- ▶ Research institutes

Corporate, Education & Asset Storage

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- ▶ HQ campuses and business parks
- ▶ Mixed-use developments
- ▶ Hotels and conference centres
- ▶ Sports venues
- ▶ University campuses
- ▶ Independent schools and colleges
- ▶ Caravan and motorhome storage
- ▶ Plant and equipment hire yards

Convenient Access. Secure Identification.

Open Integration

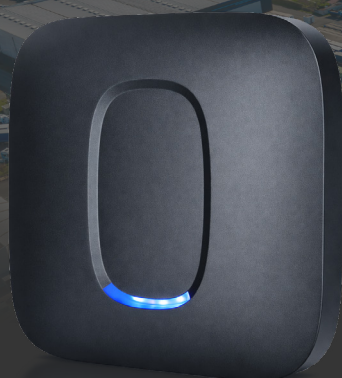
Open standards and APIs for seamless integration.

UK Support

Engineering support from pre-sales through commissioning and beyond.

Proven at scale

50+ countries, 30+ years.



uPASS Go



Transit Ultimate



ANPR Lumo

Automatic Vehicle Identification (AVI) enables authorised vehicles to be identified at range, providing convenient, hands-free access while maintaining secure identification and control. Nedap's long-range RFID and ANPR readers integrate with the access control or management systems already in place.

Transit Ultimate identifies both the vehicle and its driver at up to 15 metres and speeds of up to 200 km/h. uPASS Go is the cost-effective choice for car parks and staff gates at up to 10 metres. ANPR Lumo reads number plates from 2 to 10 metres without any tag at all.

Nedap's long-range readers support open integration through standard interfaces and APIs such as Wiegand, RS485, Ethernet, OSDP and REST APIs, helping avoid lock-in to a single vendor.

This document is for the people who do the work. Use it to inform, inspire, and illustrate what's possible to your clients, your colleagues, or your own site. Every application page is grounded in real deployments at Express Parcel Services in Manchester, the North West Ambulance Service, Heron Bros., Seaford College, UWC Atlantic, Neath Port Talbot Borough Council, the Caravan and Motorhome Club, and at Heathrow, Airbus, Tesco, BP, ExxonMobil, Rolls Royce, Arsenal, and Dyson.

Logistics yards & distribution centres

Get trucks moving. Stop bottlenecking at the gate.



Modern distribution operations live or die by yard flow. A single hold-up at the gate cascades into late departures, missed slots, and frustrated drivers. Manual check-ins, paper passes, and short-range card readers were never designed for a yard turning over hundreds of vehicles a day.

Transit Ultimate identifies in-house HGV fleet vehicles at long range as they approach the gate, allowing authorised vehicles to gain hands-free access without the driver stopping or presenting a card. Where a cost-effective passive UHF solution with a read range of up to 10 metres is sufficient, uPASS Go provides an alternative. For third-party hauliers, agency drivers and one-off deliveries without a tag, ANPR Lumo provides plate-based identification.

The same gate, two parallel routes, no driver friction either way. The data goes wherever you need it: yard management software, ERP, dwell-time analytics, security platform. Open protocols, REST APIs, and direct integration with the access control system you already run.

Result: faster vehicle throughput, accurate arrival logging for SLA reporting, fewer manual interventions, and a permanent record of who came in and when.

Trusted by

TESCO

DHL

posten

Coca-Cola

amazon

Express Parcel Services

W. Harrison & Sons (Carriers) Ltd • BST Carriers Ltd

Express Parcel Services (EPS)

Family-owned distribution business with a fleet of 100+ vehicles. Replaced slow sliding gates and manned guarding with Transit Ultimate readers linked to the site's access control software, eliminating tailgating, reducing guarding hours, and automatically logging every HGV movement. Installed by Expert Security UK.

We were very pleased to work with Nortech on this project in providing a solution that was exactly what the customer wanted.

Dan Schofield,
Sales Director,
Expert Security UK



Main Reader

In-house HGV fleet



Transit Ultimate

Other Readers

**Cost-effective
passive UHF
option where
up to 10 metres
is sufficient**



uPASS Go

**Third-party
and visitor
vehicles**



ANPR Lumo

Ports & Marine Terminals

Keep traffic moving. Strengthen security.
Support compliance.



Ports operate in a high-pressure environment where vehicle throughput, security and compliance must work together. Every truck arriving at the terminal is linked to wider operations — vessel schedules, container bookings, truck appointments and yard planning. Delays, identification errors or manual interventions at the gate can quickly create congestion and disruption across the terminal.

Transit Ultimate provides secure long-range identification for pre-registered vehicles at checkpoints and challenging gate layouts. Where driver identification is also required, Transit Booster can associate the driver credential with the vehicle identification, helping ensure that the correct vehicle and driver are linked to the authorised movement.

ANPR Lumo provides tag-free identification for visiting hauliers, agency drivers and other vehicles without a credential. In port applications, it can also support the registration of container identification numbers, helping link vehicle and container movements within terminal processes.

Integration with terminal operating systems (TOS), access control and truck appointment platforms allows vehicle, driver, booking and permission information to form part of the wider terminal workflow. Standard vehicle movements can be automated, while exceptions such as early arrivals, late arrivals or incorrect bookings can be identified and handled separately.

The result is faster gate throughput, fewer manual interventions, stronger access control and consistent identification data to support traceability, incident investigation and compliance with port security and customs requirements. Transit Ultimate is IP66 rated and operates from -30°C to +66°C, making it suitable for demanding outdoor environments.

Main Reader

Pre-registered vehicles



Transit Ultimate

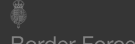
Other Readers

Visiting & untagged vehicles/ container identification



ANPR Lumo

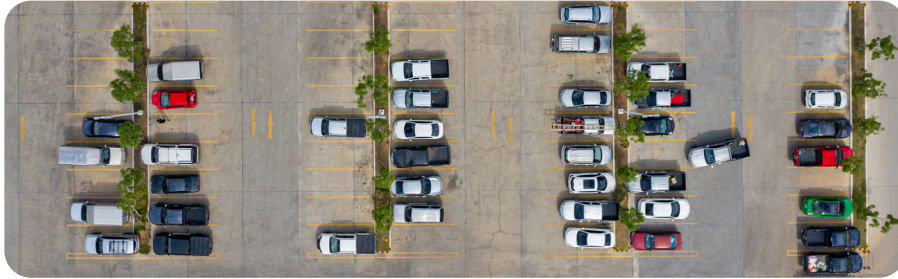
Trusted by



One of Saudi Arabia's busiest container terminals automated its truck logistics with **Nedap long-range vehicle identification readers** and windscreen tags. Registered trucks are identified on approach and processed without stopping, cutting queues at the terminal gates and providing a consistent record of vehicle movements within its terminal systems. IP-rated hardware handles the coastal heat and humidity year round.

Data Centres

Multi-layer perimeter security, without the friction.



Data centre operators face a security paradox. Every visitor and contractor needs to be authenticated to the operator's exact policy, but friction at the gate is as unacceptable as a security failure. Manual gatehouse processes don't scale, and proprietary access systems don't talk to the visitor management platforms most operators have standardised on.

Nedap's vehicle identification operates as part of a layered approach. uPASS Go handles employee parking: a single tag in the windscreen, a secure passive UHF read, no card-tap required. Transit Ultimate handles contractor vehicles and supplier/delivery vehicles where higher security and longer range are required, with AES-encrypted authentication available for higher-security applications. ANPR Lumo provides parallel plate-based verification, useful for visitors who shouldn't need physical credentials.

Identification events are passed to the access control or visitor management platform of your choice through Wiegand, OSDP, or REST, where they can be timestamped and recorded. There is no proprietary front-end software to learn and no licensing trap to escape later.

Dual-credential workflows are possible: a Transit Booster tag plus a driver PIN at a pedestal, or a plate read combined with a secondary verification step. The operator decides the policy. Nedap and Nortech provide the hardware to enforce it.

Trusted by

Heathrow
Making every journey better

AIRBUS

ExxonMobil

RR

dyson

Nortech and Nedap technology is deployed at sites where uptime and access integrity carry the same weight data centres demand: Heathrow, Airbus, ExxonMobil, Rolls Royce and Dyson among them. Nedap readers are installed in over 50 countries, with AES-encrypted authentication available through Transit Ultimate for higher-security applications.

Main Reader

Contractor & supplier vehicles



Transit Ultimate

Other Readers

Employee parking

uPASS Go



Visitor management

ANPR Lumo



Dual-credential / high-security

Transit Ultimate
+ Transit Booster tags

Airports

Application 4

Three environments. Different vehicles.
One vehicle identification platform.



An airport is really three sites in one. Landside staff parking has the volume problem: thousands of employees, multiple shift changes, peak-hour congestion. Airside has the security problem: airfield access must be policed to civil aviation regulations, with no margin for error. Cargo has the throughput problem: time-critical freight movement across dedicated gates.

Nedap covers all three. uPASS Go handles landside staff parking: secure, fast, no card required. Transit Ultimate is the standard for airside service vehicles, where the long read range allows operations vehicles to clear access points without interrupting their work, and AES encryption protects against tag cloning in regulated environments. ANPR Lumo handles cargo gates, where third-party hauliers and freight forwarders need traceable, plate-based access without being issued physical credentials.

Because the readers integrate with airport access control and operational systems, every movement can be timestamped and recorded within the airport's own systems. Compliance evidence is produced as a by-product of normal operation rather than a separate manual exercise.

Nedap is already deployed at airports across Europe and beyond, and Nortech's UK engineering team has handled the specific compliance and integration requirements that come with aviation environments. Heathrow is a Nortech customer.

Trusted by

Heathrow
Making every journey better

Auckland Airport

HELSINKI AIRPORT
Helsinki – for smooth traveling

شركة مطار القاهرة الجوي
Cairo Airport Company

مطار دبي
DUBAI AIRPORTS



مطار الملك عبدالعزيز الدولي
King Abdulaziz International Airport

مطار الملك خالد الدولي
King Khalid int'l airport

KAIA & KKIA Private Aviation Terminals

PrivatAir Saudi Arabia manages the private aviation terminals at King Abdul Aziz International (Jeddah) and King Khalid International (Riyadh). Nedap long-range UHF readers and windscreen tags give VIP clients and subscribers hands-free parking access with no stopping at the gate and no ticket to collect, integrated with the Scheidt & Bachmann parking management system. Commissioned by Idex Services.

The efficiency of Nedap products and the ability for easy integration enhanced our solution provided to the client.

Mohamed Khalil,
Operations Manager, Idex Services



NTC-AVI-V1.0

Main Reader

Airside service vehicles



Transit Ultimate

Other Readers

Landside staff parking

uPASS Go



Cargo gates

ANPR Lumo



CNI & Utility Sites

Unattended perimeters, contractor flow, 24/7 reliability.



Critical national infrastructure sites, including water treatment, power substations, gas processing and telecoms, share a difficult set of requirements. The perimeter must be secure, but the site is often unattended. Contractors come and go on planned and emergency work, while locations may be remote, exposed to harsh weather and impractical to staff with a permanent gatehouse.

Transit Ultimate provides secure long-range vehicle identification for these environments. Pre-authorised contractor vehicles can be identified automatically at the gate against a centrally managed permit list. Where the security policy requires both vehicle and driver verification, Transit Booster supports dual-credential workflows. Out-of-hours or exceptional access events can also be handled through the connected security management system.

ANPR Lumo complements Transit Ultimate for occasional or unscheduled visits by auditors, emergency-response vehicles and contractor sub-tier vehicles, where plate-based identification is more practical than issuing a physical credential.

Identification events, including tag or plate ID, can be timestamped and recorded within the connected security management system, supporting the audit trail required by CNI compliance frameworks. **Transit Ultimate is IP66 rated and operates from -30°C to +66°C**, making it suitable for demanding outdoor environments.

Integration with central security operations centres, building management systems and contractor permit platforms is supported through standard interfaces and open integration methods.

Trusted by



Main Reader

Pre-authorised contractor vehicles



Transit Ultimate

Other Readers

High-security dual-credential workflow

Transit Ultimate +
Transit Booster tags

Visitor & sub-tier contractor plates

ANPR Lumo

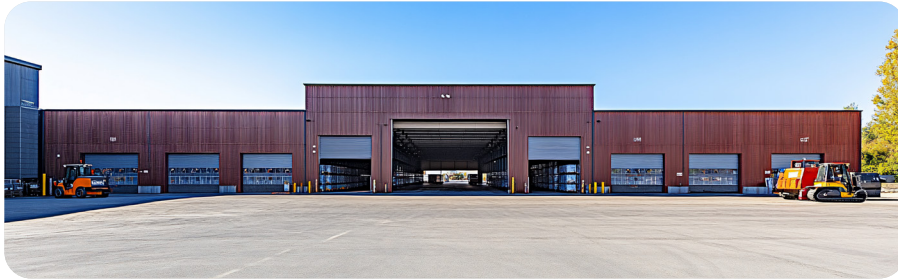


Nortech customers include BP, ExxonMobil and Rolls-Royce: Organisations with security and continuity requirements comparable to critical national infrastructure. Nedap vehicle identification readers are designed for demanding outdoor environments, with IP65/ IP66 protection ratings and operating temperature ranges suited to the individual product. Identification data is passed to the connected system to support the required audit trail.

Manufacturing & Industrial Yards

Application 6

HGVs in, employees in, suppliers in.
Without manual gatework.



A working manufacturing site is a constant choreography of inbound deliveries, outbound shipments, supplier visits, and shift-change employee flow. Each one has different access policies and different volumes. Trying to run all of it through a manual gatehouse, or worse through multiple disconnected systems, creates queues, errors and reporting gaps.

Nedap consolidates the entire vehicle access flow onto a single hardware platform. Transit Ultimate identifies pre-registered HGVs and supplier vehicles, even at difficult approach angles where conventional readers struggle. ANPR Lumo handles one-off deliveries and visitor vehicles, and uPASS Go manages the employee parking flow at shift change. One integration into the site's access control or yard management software covers all three.

The same technology can automate internal vehicle access. In food and pharmaceutical facilities, tagged forklifts can trigger warehouse doors automatically on approach, removing the need for operators to dismount and use a proximity reader or intercom. Where required, dual authentication can verify both the forklift and operator, combining convenience with improved security and helping prevent unauthorised access.

Trusted by

dyson

thyssenkrupp



Balfour Beatty

AIRBUS



thyssenkrupp Steel

One of the world's largest steel production facilities, on a site five times the size of Monaco, moves 2,000 trucks and 13,000 cars every working day. Sixteen Transit Ultimate readers across seven factory gates read 15,000 windscreen-mounted tags from up to 10 metres, keeping vehicles flowing without congestion. The partnership with Nedap has run for over 15 years.

Working with Nedap has given us a reliable and competent partner for over 15 years.

Ingo Kucharzewski,
Engineer, thyssenkrupp Steel



Main Reader

HGVs & supplier vehicles



Transit Ultimate

Other Readers

One-off deliveries & visitors

ANPR Lumo



Employee parking

uPASS Go



Bus & rail depots

Fleet movements, dwell tracking, depot security.



Public transport depots run on tight rotation schedules. Every bus or train movement in and out of the depot needs to be tracked, timed, and matched to a vehicle, a driver, and a duty. Manual logs can't keep up; short-range readers struggle with the geometry of articulated vehicles approaching a depot gate.

Nedap Transit Ultimate identifies fleet vehicles at full approach speed with the long read range needed for depot entry geometry. Each in/out event is passed to the depot's fleet management or scheduling system, where it can be timestamped and recorded. Operations supervisors see real-time depot occupancy and historical vehicle movement on demand.

The same infrastructure supports defect reporting workflows, driver duty handovers and maintenance scheduling, because every event is tied to a specific vehicle and time. Out-of-hours or unscheduled movements can trigger alerts to a control room. Where fleet vehicles operate across multiple sites, including depots, garages and restricted access roads, Nedap uPASS Go offers a cost-effective passive UHF option, and the same tag can be read across sites and access infrastructure.

ANPR Lumo provides backup plate-based verification for older fleet vehicles or visiting buses from a partner operator, ensuring complete coverage without retrofitting tags onto every asset.

Trusted by



Neath Port Talbot Borough Council

Upgraded a 20-year-old road blocker and tag system controlling bus-only access through a route used by other traffic as a rat-run. Nedap long-range UHF readers mounted at height on access posts solve both the 10-metre read requirement and a local vandalism problem, reading tags in any orientation, in all weather. Tags are shared with Swansea University's system so that buses can access both sites.

A resounding success ever since.

Phil Frohwein,
Lighting & Telematics Engineer.



Main Reader

Fleet vehicles



Transit Ultimate

Other Readers

Multi-site passive UHF option

uPASS Go



Visiting / legacy fleet

ANPR Lumo



Weighbridges & bulk material sites

Every load, identified. Every ticket, automated.



Waste, recycling, and aggregates sites depend on accurate vehicle-and-load identification at the weighbridge. Manual ticketing is slow, error-prone, and a frequent source of billing disputes. Operators want every load tied automatically to the vehicle, the driver, the customer account, and the time with the data flowing into the weighbridge software and the back-office system without rekeying.

Nedap Transit Ultimate identifies every authorised vehicle as it approaches the bridge. The weighbridge software receives the vehicle ID before the wheels are even on the plate, and the ticket is generated as soon as the weight is recorded. ANPR Lumo handles untagged vehicles, typically casual or one-off customers using plate-based identification against a registered customer list.

Integration with standard weighbridge management software is well-established, and Nortech's engineers have done these projects across UK waste and aggregates sites. Open protocols mean operators are never locked into a single weighbridge software vendor.

The result: faster turnaround, accurate billing, complete traceability of every load, and significantly reduced manual administrative effort.

Trusted by

BATICİM

BATISÖKE



Panda

Balfour Beatty

BATICİM BATISÖKE

Batıçım & Batisöke cement plants

Two plants within the Batı Anadolu Grup run fully automated raw material intake and cement dispatch, with Nedap long-range RFID identifying vehicles at entry, exit, waiting areas, weighbridges and loading stations, all integrated with the plant ERP. Nedap certified partner PI OTOMASYON has commissioned more than 40 plants on this model, identifying over 10,000 vehicles a day across 250+ weighbridges and 300 loading stations.

Our first installations are more than 10 years old and still operate with minimal maintenance, which results in a lower total cost of ownership for our customers.

Oğuz Çelikel,
Project Director, PI OTOMASYON



Main Reader

Authorised fleet



Transit Ultimate

Other Readers

Casual customer vehicles

ANPR Lumo



Defence & high-security estates

Multi-layer perimeter. Strict accreditation.
Zero failure tolerance.



Defence and high-security estates operate to standards where conventional commercial access control simply isn't appropriate. Vehicle access must combine multiple credentials, every event must be auditable, and the entire system must function without compromise in adverse conditions or under operational stress.

Nedap technology is deployed at military bases, government estates, and national security sites across multiple countries. Transit Ultimate provides the long read range, AES-encrypted communications, and reliability required for primary vehicle identification, and supports Transit Booster dual-credential workflows combining a vehicle tag with a driver PIN, biometric, or secondary verification step.

ANPR Lumo provides parallel plate-based verification, allowing every vehicle entering the site to be cross-referenced against multiple authoritative sources.

Identification events and credentials can be timestamped and recorded within the connected security operations platform, with integration through open protocols. Nortech's UK engineering team understands the procurement, compliance, and operational requirements of UK defence and government estates work.

Trusted by

الجمارك السعودية
SAUDI CUSTOMS

وزارة الرياضة والشباب
Ministry of Sports and Youth

Border Force

HM Revenue & Customs

Securitas



Abu Samra Border

Qatar's Ministry of Interior replaced manual vehicle checks at one of the country's key entry points with Nedap UHF RFID identification integrated into the AEOS access control platform. Automated identification eliminated rush-hour delays, produced accurate records of every vehicle movement, and freed security personnel for higher-value tasks. Deployed with local partner MANNAI TRADING Co.

Main Reader

Primary vehicle identification



Transit Ultimate

Other Readers

Dual-factor authentication

Transit Ultimate
+ Transit Booster tags

Plate-based verification

ANPR Lumo



Healthcare & Emergency Vehicle Access

Seconds matter. Make the gate the easiest part of the journey.



In a hospital environment, every second between an ambulance approaching the perimeter and a patient being inside the emergency department is a second that matters clinically. Manual gate operations, swipe cards, or short-range readers add delay precisely where delay is most costly.

Nedap Transit Ultimate identifies authorised emergency vehicles at the perimeter from up to 15 metres away. The barrier is already rising as the ambulance approaches and the driver never slows. ANPR Lumo provides a tag-free alternative, reading number plates at 2 to 10 metres, integrating into the hospital's access control system through Wiegand and converting valid plates into the same authentication signal as a standard card reader.

The same infrastructure handles routine staff parking. uPASS Go gives staff vehicles access at far lower friction than card-based systems, and visitor management platforms integrate directly for contractor and visitor flow.

The combined effect is reduced friction at every point of the access flow, accurate logging for incident review and security compliance, and a system that doesn't add to the cognitive load of staff focused on patient care.

Trusted by



North West Ambulance Service (NWAS) NHS Trust

NWAS operates around 1,000 vehicles. ANPR Lumo cameras housed in SSP-ANPR stainless steel bollards secure the HQ perimeter.

The system is very fast and ticks all the boxes for us.

Dan Schofield,
Sales Director, Expert Security UK.



Main Reader

Ambulance & emergency vehicles



Transit Ultimate

Other Readers

Tag-free perimeter security

ANPR Lumo

housed in SSP-ANPR stainless steel bollards for vehicle-impact protection



Staff parking

uPASS Go



Corporate Campuses, Education & Asset Storage Sites

Volume traffic, mixed users, one elegant access experience.



Corporate campuses, education sites, and asset-storage operations face a deceptively complex vehicle access challenge: high volumes of employee or member traffic concentrated around predictable peaks, an unpredictable visitor flow throughout the day, contractors and deliveries on top of that, and an expectation that the entire experience feels modern, secure, and friction-free.

Nedap uPASS Go handles the regular user population with a single tag in the wind-screen: passive UHF read, no card-tap, no app to fumble with on a winter morning. It's the right choice when read range needs are moderate and cost matters. Transit Ultimate covers higher-volume or higher-speed lanes, including VIP and executive parking.

ANPR Lumo handles visitor and contractor flow, integrating with visitor management platforms so a pre-registered visitor never has to stop at a barrier they didn't expect. Every credential ties back to a single open-architecture access control platform of the customer's choosing. There is no proprietary front-end software, no licensing model that escalates with site size, and no lock-in to a single vendor's roadmap.

Trusted by



The Caravan and Motorhome Club

Folkestone & Ashwell storage sites 600 vehicles across two storage sites tagged with tamperproof uPASS Go UHF windshield tags.

The time saved through automated event logs is huge.

Marc,
Project Manager,
The Caravan and Motorhome Club



Main Reader

Members, students & staff



uPASS Go

Other Readers

VIP / high-volume lanes

Transit
Ultimate



Visitor & contractor management

ANPR Lumo



Want to talk it through with an engineer?



Every site is different. Every existing access control system has its own quirks. Before you specify hardware, talk to someone who has done it before.

Nortech's UK engineering team will help you scope the application, recommend the right Nedap product mix, work through the integration with your existing systems, and stay with you through commissioning and beyond. And when you call, it's an engineer who answers.



Amer Hafiz,
Managing Director

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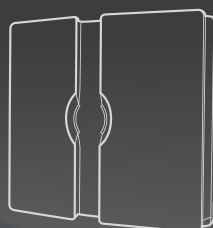


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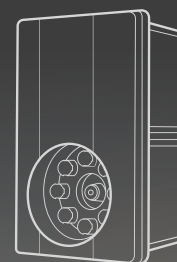
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uPASS Go



**Transit
Ultimate**



ANPR Lumo



**Nedap Certified
Partner**



**ISO 9001
Certified**



**Investors in
People
accredited**



**Independent
British
Company**

**FOUNDED
1992**

**Founded
1992**

Trusted by

